Automation and Software tools

Version 2024

Weidmüller

Automation and Software tools
Catalogue 10

u-control – Controllers and Edge devices

M3000 / M4000
Page B.2

- MultiCore technology for independent installation of several runtime systems
- M3000 with two CPU cores & M4000, with 4 CPU cores

Control web
Page B.6

- Web-based // HTML5
- Dual-core CPU, 512 Mbyte RAM
- mit integrierter Software

IoT-Gateway
Page B.10

- Flexible IoT integration
- Many PLC protocols are supported

u-remote – I/O systems IP20

Fieldbus coupler
Page C.4

- PROFINET, PROFIBUS, EtherCAT, ModbusTCP, EtherNet/IP, DeviceNet, CANopen, POWERLINK, CC-Link, CC-Link IE TSN, IEC 61162-450

Digital input modules
Page C.36

- 2-16 digital inputs
- Positive & negative switching
- 2-wire, 3-wire and 3-wire+FE connection
- Electrogalvanised insulated variation

Digital output modules
Page C.52

- 4-16 digital outputs
- Positive & negative switching
- 2-wire, 3-wire and 3-wire+FE connection
- Electrogalvanised insulated variation

Digital input and output modules
Page C.68

- 8 digital inputs/outputs (configurable)
- Positive switching
- 2-wire, 3-wire connection

Pulse width modulation and stepper motor modules
Page C.70

Pulse-width modulation modules:
- 2 pulse width outputs
- Load capacity up to 0.5 - 2 A per channel

Stepper motor module:
- 4 digital inputs and 2 inputs for 2-channel incremental (rotary) encoder
- 50 W power output stage

Analogue input modules
Page C.76

- 2-8 analog inputs
- 12 to 32 bit resolution
- 2-wire, 3-wire and 3-wire+FE connection
- Extended diagnostic function
- HART communication variation
- Electrogalvanised insulated variation

u-remote – I/O systems IP20

Temperature modules and potentiometer input module Page C.92

Temperature modules:
- 4 - 8 analog inputs
- Temperature measurement via resistance

Potentiometer input module:
- 4 potentiometer inputs
- Measuring area from 300 Ω ... 50 kΩ

Strain gauge module Page C.98

- 2 differential inputs for strain gages
- 24 bit resolution
- 4- or 6-wire connection

Power measurement module Page C.100

- Acquisition and processing of measured variables from single-phase or three-phase power consumers (up to 500 V AC phase-to-phase voltage)
- Currents up to 5 A directly detectable
- Limit value monitoring

Analogue output modules Page C.104

- 2 and 4 analog outputs
- 16 bit resolution
- 2-wire and 4-wire connection
- Extended diagnostic function
- Electrogalvanised insulated variation

Digital counter and communication modules Page C.114

Counter modules
- Latch, gate- and reset input
- Counter width 32 Bit
- Maximum input frequency 100 kHz

Communication modules:
- IP67 SAI-PRO modules can be integrated
- Interface for RS232, RS485 and RS422 perepheria
- IO-Link standard according to IEC 61131-9

Safe I/O modules and safe power-feed modules Page C.126

- PROFIsafe or FailSafe over EtherCAT
- 4 to 8 digital inputs (partly parameterizable)
- 4 digital outputs (partly parameterizable)
- OSSD-output reports status to controller

Power-feed modules Page C.134

- Input of the current paths
- Feed-in current 10 A

Accessories Page C.138

- Potential distribution modules
- Empty slot module
- Markers and plug-in connectors

u-remote – I/O systems IP67

PROFINET IO-LINK
Page C.150

- IO-Link, 4x Type A, 4x Type B
- Fieldbus protocol PROFINET
- Width 30 to 60 mm

Multiprotocol (PROFINET + EtherCAT + EtherNet/IP)
Page C.151

- 8 to 16 digital inputs and outputs
- Fieldbus protocol PROFINET, EtherNet/IP and EtherCAT
- M12, L-coded or 7/8“ connection

Push/ Pull
Page C.155

- 8 to 16 digital inputs and outputs
- Fieldbus protocol PROFINET
- Connection 8x M12 socket 5-pole, acoded

Subbus
Page C.159

- Subbus Module
- 8 digital inputs/ 8 digital outputs
- 4 analog outputs
- Function modules

Accessories
Page C.163

- Sensor cables
- Assembly tool

u-view – Touch Panels

Touch Panels – Eco Line
Page D.4

- Resitive touch
- 4,3“, 7“, 10,1“
- High-quality plastic frame

Touch Panels – Avanced Line
Page D.6

- Capacitive multi-touch
- 7"; 10,1"; 15,6"
- Fitted glass front

u-OS – Operating system

u-OS
Page E.2

- Open: Easy integration of your own applications
- Flexible: Can be expanded to meet individual requirements
- Independent: Future-proof thanks to open standards

PROCON-Connect – Data acquisition, pre-processing and communication

PROCON-Connect
Page F.2

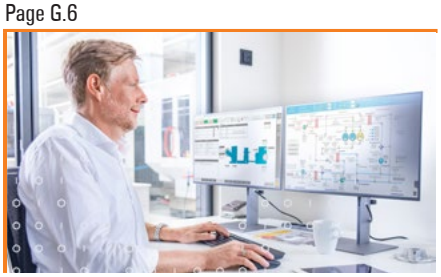
- Platform-independent app
- Open standards and interfaces
- Intuitive web engineering

PROCON-WEB – Visualisation software

PROCON-WEB Embedded Systems
Page G.2

- Portable and easily configurable HMI and IIoT solution
- High performance with low resource requirements
- Compatible with devices featuring OPC-UA server, Modbus interface, Codesys PLCs, and u-OS PLCs
- Dynamic web interface

PROCON-WEB SCADA
Page G.6



- Easy creation of modern user interfaces
- Dynamic web interface
- User and rights management
- Ideal for control systems or complex digitalization tasks

AutoML – Data analysis and automated machine learning

AutoML
Page H.2

- ModelBuilder
  From Data to Model
- ModelRuntime
  Flexible Deployment in the Cloud

edgeML
Page H.4

- edgeML
  Simple and flexible ML integration into automation
- edgeML ModelRuntime

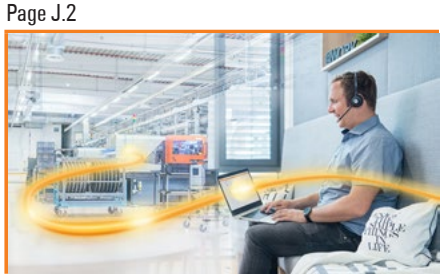
ResMa® – Energy management software

ResMa®
Page I.2

- ResMa® Basic
  Analyze data – Plan optimizations
- ResMa® Packages
  ResMa® Energy
  ResMa® Production
  ResMa®Regression Analysis
  ResMa® Recipe Management
  ResMa® Import

u-link – Remote maintenance

u-link
Page J.2



- Secure remote access and remote diagnostics
- Condition monitoring and status reporting
- Individual system management
- Low configuration effort

Service and support

Service connects – worldwide Page V.2
Page V.2

- Service connects – worldwide
- Engineering services and customised products
- easyConnect – Your Industrial Service Platform
- Support Center
- Additional support services
- Weidmüller Configurator

Digital ordering options Page V.10
Page V.10

Purchasing made easy:
- Weidmüller eShop
- OCI interface
- EDI interface

Automation and Industrial IoT with Weidmüller

The easy way into Industrial IoT and automation

With our integrated and future-oriented portfolio
Build on openness

Innovative Industrial IoT and automation applications create significant added value for our customers. The added value is mainly generated by software. Whether energy management, remote maintenance, predictive maintenance, asset management or classic anomaly detection – all use cases are based on a similar mode of operation: data is collected in the field, pre-processed at the machine (edge), converted into control commands and communicated to a central location (cloud or on-premise system). There, software visualizes and analyses the data and converts it into added value. **From data to value.**

This is how it works in a wide variety of industrial segments: From mechanical engineering, renewable energies and shipbuilding to smart agriculture. As an **enabler,** we offer you, our diverse customers, a comprehensive and universal **modular system** in the field of Industrial IoT and automation. We cover all data levels „from data to value" with our **hardware, software, cloud applications and associated services.** Depending on the combination and parameterisation/ configuration of the individual components, different systems are created to suit your application.

Scalability plays a central role for us, as it gives you maximum flexibility and the ability to map applications of varying complexity. **Everything can, nothing must – from individual components to fully vertically integrated systems.** Our top priority is to make it **as easy as possible** for you. Easy access to our digital services is just one example of this. With our Industrial Service Platform easyConnect, we make this possible throughout the entire life cycle.

We also focus on openness in terms of partnerships, technologies and products. We believe in open source and de facto standards. In many of our industrial IoT and automation projects, we connect ecosystems with each other through open communication interfaces, for example, thus creating future security and the greatest possible flexibility for you. Our open software platform for industrial IoT and automation u-OS is a concrete example of this.

The potential around Industry 4.0 is huge. By combining Industrial IoT and automation, we enable you **to tap into individual fields of application easily, efficiently, and consistently** and move step by step towards Industry 4.0.

From single purpose system for automation to multi purpose
Use Case

An existing automation task is to be expanded to include Industrial IoT functionalities. Nowadays, it is often no longer just about controlling a machine, for example.

To be future-proof, it is crucial to have the option to easily integrate additional software. This enables the realisation of use cases in the field of Industrial IoT.

Open for the future | u-OS

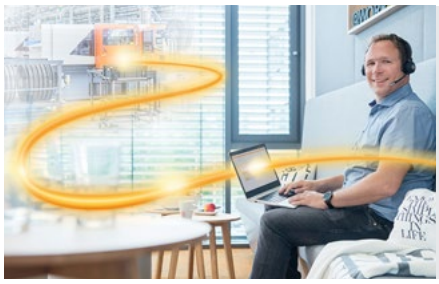
The open, modular u-OS operating system enables efficient data pre-processing and precise control directly at the machine. CODESYS or other solutions from u-OS technology partners are available for automation. u-OS offers a web-based system configuration and is expandable so that further use cases can be realised. Various apps from Weidmüller can be used here. Thanks to the open concept, third-party apps can also be easily integrated.

The u-OS Datahub enables the software to be closely interlinked or I/O systems to be integrated quickly and easily. All apps installed on u-OS access the u-OS Datahub to retrieve the relevant data. This facilitates the interaction of different apps, which leads to a significant increase in efficiency.

The actual engineering involves little effort. No programming is necessary, configuration is sufficient.

Your Advantages:
- Maximum flexibility and modularity
- Future-proof thanks to the open concept
- No extensive programming knowledge required, the actual engineering involves little effort

The easy way to remote maintenance
Use case



The remote maintenance of machines and plants is often complex and time-consuming. Additionally, there is also the demand for a targeted and safeguarded functional connection to the associated IT systems. For many users, these two issues make the connection of plants around the world a major obstacle. How do you guarantee a quick and secure access to machines while also allowing for efficient management of production plants, user clients, access rights or firmware versions?

u-link – System for individually designed remote maintenance solutions

The easy way to remote maintenance or: how you can easily and securely reduce your service technician interventions by up to 60%.

Seamless production sits at the core of every company's operations. If production stops, due to an error for example, a quick response is required. But what if the specialist for the plant is not on site? Thanks to digitalisation, the magic words in this case are often remote maintenance. Estimates assume that up to 60% of errors can be resolved or at least supported via remote access. Not having to send out a service technician can mean savings of EUR 1,000 or more.

However, remote maintenance is not only important for analysing and correcting errors: It is also beneficial for setting up and maintaining the plant, as well as for carrying out optimisation work. Weidmüller's u-link remote access service offers a system that is easy to install, easy to configure and easy to manage – and guarantees a high level of security at all times.

Your Advantages:
- Secure remote access
- A wide range of functions for your use cases
- Simple operation and configuration

The easy way to machine learning
Use case

The use of artificial intelligence usually requires specific know-how in the field of data science. However, data science know-how alone is not enough – only the combination of data science and application knowledge provides the perfect basis for optimizing your production.

How can you bring this know-how together and make the most out of machine learning for your production without years of data science training?

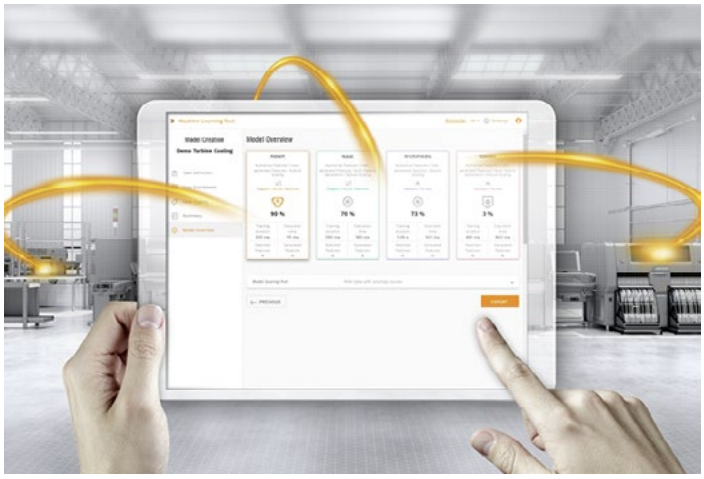
Industrial Automated Machine Learning Tool for machinery and plant engineering

Weidmüller has standardised and simplified the use of ML for industrial applications to such an extent that domain experts without specialist knowledge of data science can generate ML solutions themselves.

The software tool guides the user through the process of model development, which is why Weidmüller also refers to this as „guided analytics“. Machine and process experts can easily create, modify and execute ML models without the support of data scientists, in order to reduce downtime and errors, optimise maintenance activities and improve product quality.

The software helps with translating and archiving the complex application knowledge into a reliable machine learning application. The experts focus on their knowledge of machine and process behaviour and link this to the ML steps running in the background.

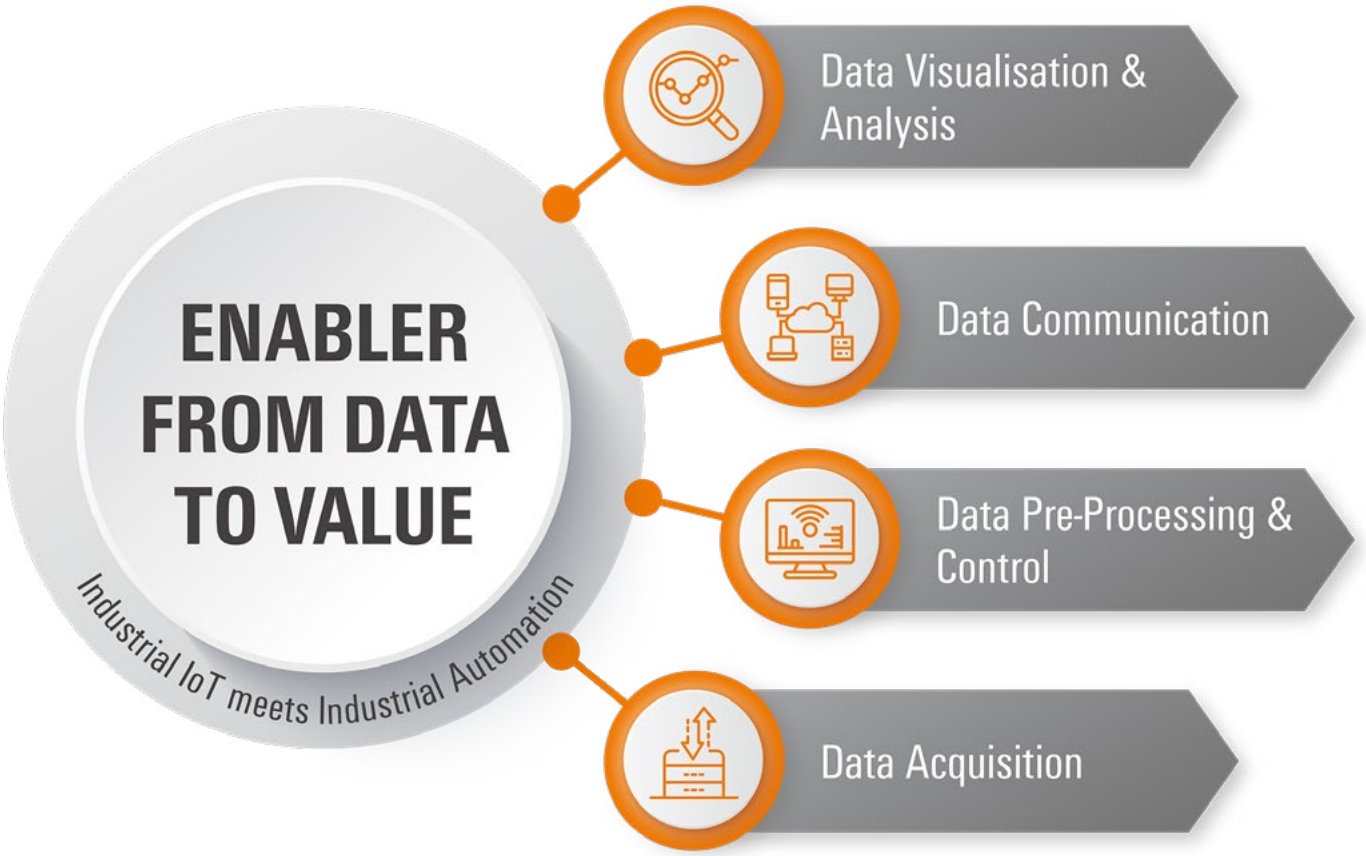
Your Advantages:
- Transparency for your data
- Build your own machine learning models within minutes
- Build customer relationships and new business models



Components and systems for all data levels

The easy way „from data to value“

With our Industrial IoT and automation portfolio, we cover all data levels from **data acquisition, data pre-processing/control** and **data communication** to **data visualization/analysis.** As an **enabler from data to value,** we offer you individual components as well as a comprehensive modular system for both greenfield and brownfield applications. Our range of services covers hardware, software, cloud applications and the associated services.
We hope you enjoy making your selection.



u-control – Controllers and Edge devices

Combining OT and IT to perfection

Modular controllers for industrial automation and IoT applications

In the context of automation, more and more physical devices are being integrated into networks. This promotes the trend towards convergence of IT and OT systems. The new modular control systems u-control M3000 and M4000 point the way to the future.

M3000 or M4000 – which controller is right for you?
With u-control M3000, automation solutions can be perfectly integrated into the IoT integration. The powerful controller also serves as an edge device for information in the network and can be expanded by connecting function modules – ideal for automation and Industrial IoT applications. u-control M4000 also offers two additional CPU cores, four Ethernet interfaces and more RAM, NV-RAM and flash memory for complex edge computing in automation.

Approvals:

Planned approvals:


PLC and edge device in one device
MultiCore technology
u-OS inside
2 Ethernet interfaces
4 Ethernet interfaces
Optional extension with additional interfaces (field buses, Wifi, GSM)
Simple option for connecting additional function modules

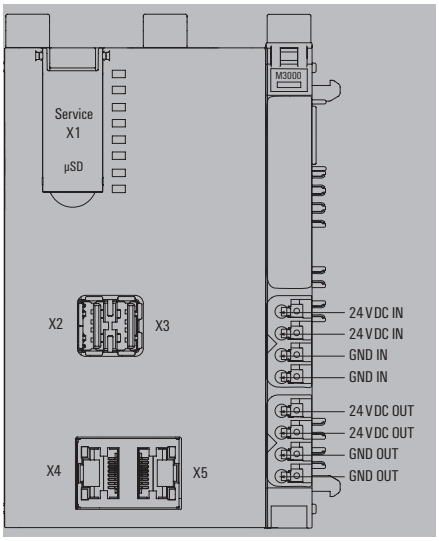
UC20-M3000

- Controller for automation and IoT applications
- u-OS integrated
- System supply for 64 u-remote I/O modules
- Additional interface for function modules that can be bayed on the left
- Dual-core CPU, 1.2 GHz
- 2 x 10 A current path

UC20-M3000

Technical data

System data	
Connection type	PUSH IN
max. number of modules	64
Configuration interface	USB-C (3.1), MicroSD CARD
Processor	Dual Core ARM Cortex A53, 1200 MHz
Memory (Flash)	16 GB
Real-time clock	Battery buffered
Engineering tool	u-OS
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{IN} (input current path) , max.	10 A
Feed current for I_{OUT} (output current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	116 mA
General data	
Weight	588 g
Dimensions H x W x D	120 mm / 80 mm / 101 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
	UC20-M3000	1	**2839150000**
Note	A termination kit (UC20-EBK-ACC) is included in the controller package.		

Accessories

	Type	Qty.	Order No.
Swievel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
USB cable (USB A to Micro USB)	IE-USB-A-MICRO-1.8M	1	**1487980000**
Replacement parts			
Plug-in connector unit	UR20-PK-2839150000-SP	5	**2884000000**
Control accessories			
SD Memory Card	SD-CARD	1	**2684400000**
Note	u-link licences: See catalogue 9 - Industrial Ethernet in chapter E, PROCON-WEB licences: See chapter G		

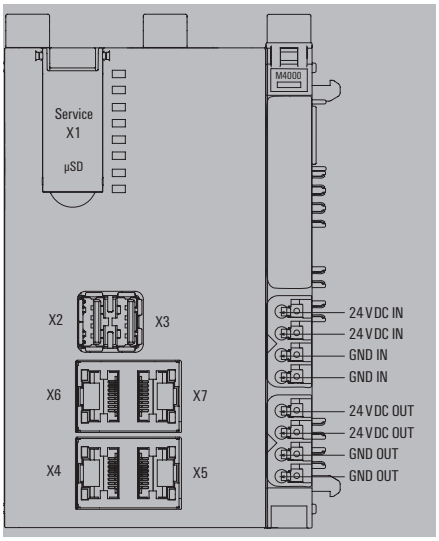
UC20-M3000

- Controller for automation and IoT applications
- u-OS integrated
- System supply for 64 u-remote I/O modules
- Additional interface for function modules that can be bayed on the left
- Quad-Core CPU, 1.2 GHz
- 2 x 10 A current path

UC20-M4000

Technical data

System data	
Connection type	PUSH IN
max. number of modules	64
Configuration interface	USB-C (3.1), MicroSD CARD
Processor	Quad Core ARM Cortex A53, 1200 MHz
Memory (Flash)	16 GB
Real-time clock	Battery buffered
Engineering tool	u-OS
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{IN} (input current path) , max.	10 A
Feed current for I_{OUT} (output current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	116 mA
General data	
Weight	604 g
Dimensions H x W x D	120 mm / 80 mm / 101 mm
Note	



Ordering data

Module variants	Qty.	Order No.
UC20-M4000	1	**2839160000**
Note	A termination kit (UC20-EBK-ACC) is included in the controller package.	

Accessories

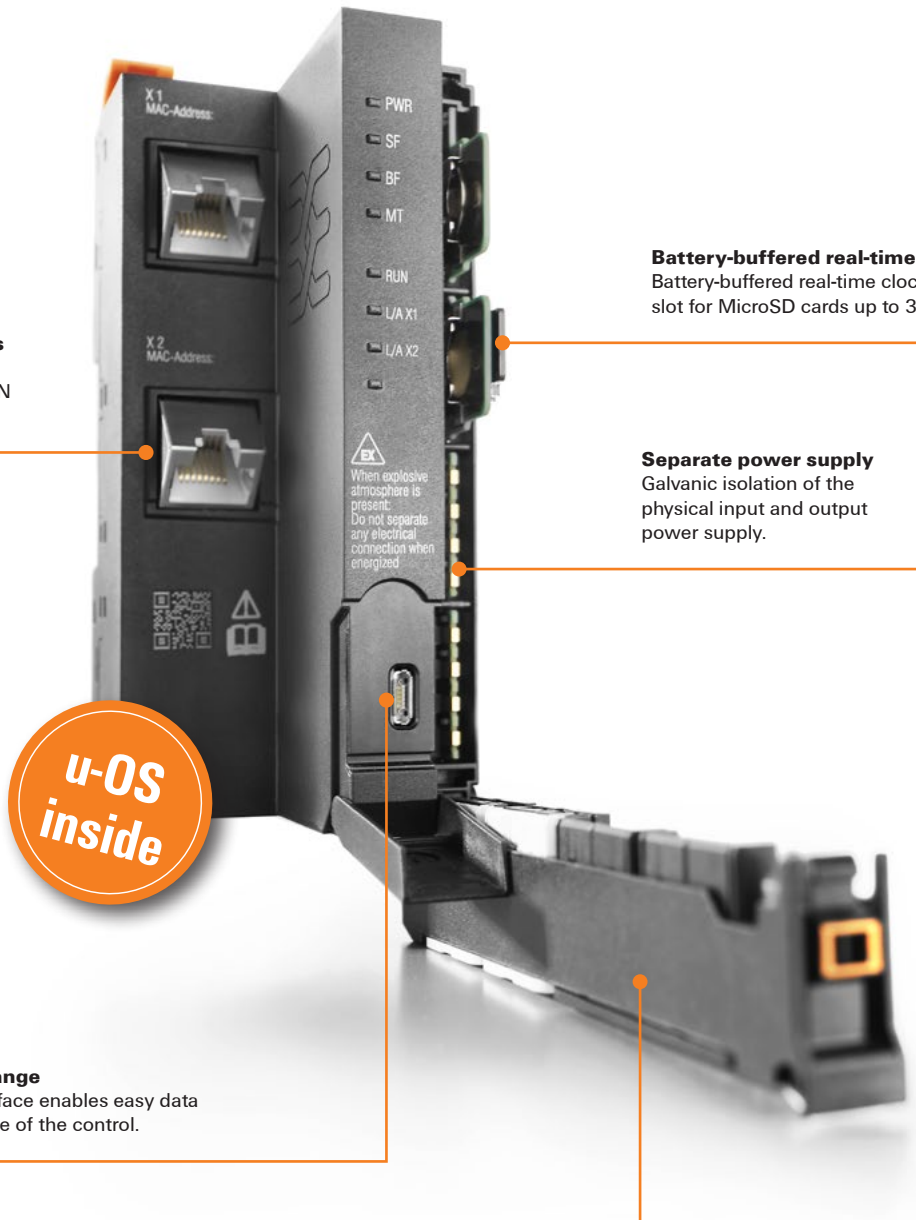
	Type	Qty.	Order No.
Swievel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
USB cable (USB A to Micro USB)	IE-USB-A-MICRO-1.8M	1	**1487980000**
Replacement parts			
Plug-in connector unit	UR20-PK-2839160000-SP	5	**2883990000**
Control accessories			
SD Memory Card	SD-CARD	1	**2684400000**
Note	u-link licences: See catalogue 9 - Industrial Ethernet in chapter E, PROCON-WEB licences: See chapter G		

Flexible automation of applications

u-control WL2000 for compact and cost-optimised control

The u-control WL2000 controller is based on the compact design of the u-remote fieldbus coupler – for even greater space saving and maximum flexibility when it comes to the implementation of individual automation solutions. It is compatible with the u-remote range and allows for direct connection of I/O modules. Combined with our open u-OS operating system, it can be utilised for its entire range of applications, and offers an excellent level of customisation. For further information on u-OS, read chapter E.

The u-control WL2000 is equipped with an Ethernet-based fieldbus and one or optionally two TCP/IP interfaces. The controller also has an optional CAN interface. In addition, communication via the Modbus TCP protocol or OPC-UA is also possible over our u-OS operating system and Codesys. u-control WL2000 also has a Dual-Core ARM A9 processor and a USB service interface. In addition to the battery-buffered real-time clock, there is also a plug-in station for a microSD card with up to 32 GB of storage space for your projects.



Versatile connection options
Fitted with a fieldbus and TCP/IP interface, plus an optional CAN interface.

Battery-buffered real-time clock
Battery-buffered real-time clock and slot for MicroSD cards up to 32 GB.

Separate power supply
Galvanic isolation of the physical input and output power supply.

Simple data exchange
The micro USB interface enables easy data exchange and service of the control.

Input & output current
3 separate current paths for system bus, as well as input current and output current path.

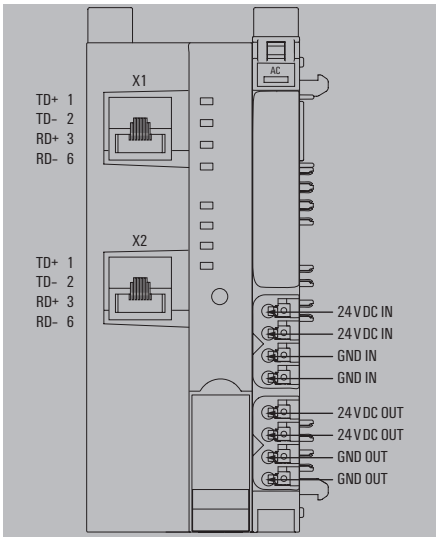
UC20-WL2000-AC

- Controller for automation and IoT applications
- Engineering tool u-create web
- System supply of 64 I/O modules
- Dual-Core CPU, 624 MHz
- 2 x 5 A current path

UC20-WL2000-AC

Technical data

System data	
Connection type	2 x RJ45 plug-in connectors
max. number of modules	64
Configuration interface	Micro USB 2.0
Processor	Dual Core ARM Cortex A9, 624 MHz, 512 Mbyte RAM
Memory (Flash)	8 GB, 32 GB via microSD
Real-time clock	Battery buffered
Engineering tool	u-create web, u-OS
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{IN} (input current path) , max.	5 A
Feed current for I_{OUT} (output current path) , max.	5 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	116 mA
General data	
Weight	232 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	



Ordering data

Module variants	Qty.	Order No.
Automation controller (Web engineering)	1	**1334950000**
Note		
A termination kit (UC20-EBK-ACC) is included in the controller package.		

Accessories

Type	Qty.	Order No.
Swivel marker	20	**1339920000**
Connection marker for pusher custom printing	192	**1323700000**
Connection marker for pusher neutral	960	**1323710000**
Module marker for custom printing	100	**1341610000**
Module marker for neutral	500	**1341630000**
Thermotransfer version (Material: Polyester)	1	**1429910000**
Thermotransfer version (material: polyester)	1	**1429420000**
Paper version for Laserprinter	10	**1429430000**
USB cable (USB A to Micro USB)	1	**1487980000**
Replacement parts		
Plug-in connector unit	5	**2605360000**
Control accessories		
SD Memory Card	1	**2684400000**
Battery for real-time clock	1	**2684410000**
Note		
u-link licences: See catalogue 9 - Industrial Ethernet in chapter E, PROCON-WEB licences: See chapter G		

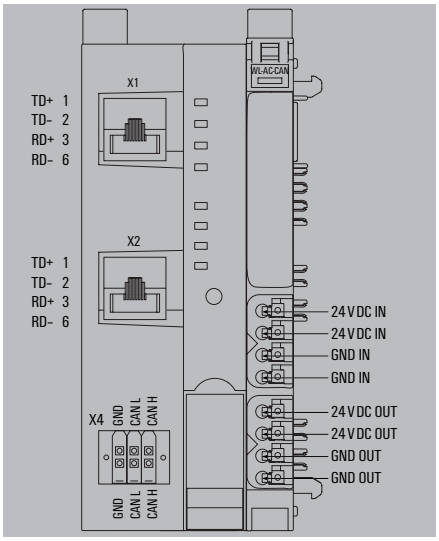
UC20-WL2000-AC-CAN

- Controller for automation and IoT applications
- Engineering tool u-create web
- System supply of 64 I/O modules
- Dual-Core CPU, 624 MHz
- 2 x 5 A current path
- CAN Interface

UC20-WL2000-AC-CAN

Technical data

System data	
Connection type	2 x RJ45 plug-in connectors
max. number of modules	64
Configuration interface	Micro USB 2.0
Processor	Dual Core ARM Cortex A9, 624 MHz, 512 Mbyte RAM
Memory (Flash)	8 GB, 32 GB via microSD
Real-time clock	Battery buffered
Engineering tool	u-create web, u-OS
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{IN} (input current path) , max.	5 A
Feed current for I_{OUT} (output current path) , max.	5 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	116 mA
General data	
Weight	232 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	



Ordering data

Module variants	Qty.	Order No.
Automation controller (Web engineering)	1	**2928020000**
Note		
A termination kit (UC20-EBK-ACC) is included in the controller package.		

Accessories

	Type	Qty.	Order No.
Swivel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
USB cable (USB A to Micro USB)	IE-USB-A-MICRO-1.8M	1	**1487980000**
Replacement parts			
Plug-in connector unit	UR20-PK-2928020000-SP	5	**2742900000**
Control accessories			
SD Memory Card	SD-CARD	1	**2684400000**
Battery for real-time clock	BATTERY-CR1220-3V	1	**2684410000**
Note			
u-link licences: See catalogue 9 - Industrial Ethernet in chapter E, PROCON-WEB licences: See chapter G			

Integration of existing components into IoT networks
Complete application representation for the IoT gateway

The intelligent networking of machines and devices in the IoT opens up many possibilities and offers opportunities for new business models. IoT gateways enable the exchange of data between field devices and servers or cloud applications. The transmitted data can be used to deepen process knowledge, carry out optimisations or offer new services.

With our IoT gateway, you can collect machine data and gain access to your field devices and controls. Various protocols and interfaces are available for this purpose. The Weidmüller u-OS operating system is pre-installed on the IoT gateway. This means customers can choose to install a wide range of apps for data pre-processing. One option is Node-RED as a graphic development tool for IoT applications, which makes available a large community and an extensive selection of system interfaces, as well as pre-processing functions free of charge. Nodes are available to easyConnect, AWS or Google cloud to ensure a simple, configurable connection to these systems. A connection to Siemens Industrial Edge via the convenient App Manager within u-OS is also possible as another example. Last but not least, of course, integration into the u-link remote access service is available, for remote maintenance of systems from any location. For location-independent remote system maintenance, you can also integrate the gateway into the u-link remote access service.

Your special advantage:
- Full flexibility via u-OS for your own and third party applications
  Simple installation of (software) containers and
  other apps through the App Manager
- Secure and cost-optimised use of cloud systems
  through pre-processing and storage
- Can also be used as a controller through Linux with PREEMPT-RT

Flexible IoT integration
Process data can be collected via various interfaces, such as Ethernet, CAN, RS485 or RS232. In addition, many protocols for coupling with PLC systems are supported – e.g. Siemens, Rockwell or the industry standard OPC-UA.

Integrated remote access
The simple and secure remote access solution u-link remote access service enables a quick response to changes in situations on site – and that worldwide.

Versatile IT integration
Whether via company network or mobile radio: The open IoT standard Node-RED allows data to be pre-processed and transmitted to other systems, such as servers, SCADA systems or cloud platforms, via various transmission media and protocols.

IoT-Gateways

IoT-Gateways

- Enables machine data acquisition and provides access to field devices and PLC's via various protocols and interfaces
- Interfaces to your own IT systems as well as to common cloud systems
- Data traffic reduction through preprocessing on edge via the open IoT standard Node-RED
- Secure and easy remote maintenance with Weidmüller u-link remote access Service
- Integration of most common communication interfaces in small design
- D1Open programming platform Node-RED with strong community support

Technical data

Interfaces	
Digital outputs	1x, 19.2 - 28 V high; max. 1 A
Digital inputs	2x, >10 V high , <3.6 V low; max. 30 V DC
Ethernet ports	2
RJ45 ports	10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port
Serial port	1x RS232/RS485
USB port	1x USB 2.0 (Type A; max. 500 mA)
System data	
Real-time clock	Capacity buffered (max. 5 days)
Processor	Dual Core ARM Cortex A9, 600 MHz
Memory (Flash)	4 GB
Memory (RAM)	1 GB, DDR3
VPN functionality	
u-link	OpenVPN-based remote access service via the Weidmüller u-link cloud
Technical data	
Housing main material	Metal
Speed	Fast Ethernet
Protection degree	IP20
Type of mounting	DIN rail
Dimensions H x W x D	125 / 35 / 105 mm
Net weight	412 g
Environmental conditions	
Operating temperature	-20 °C...60 °C
Humidity	5 to 95 % (non-condensing)
Power supply	
Voltage supply	24 V DC
Voltage supply range	19.2...28VDC
Current consumption	0.24A @ 24V
Reverse polarity protection	Yes
Note	

Approvals	
EMC standards	EN 61000-6-3, EN 61000-6-2
Shock	according to IEC 60068-2-27
Vibration	according to IEC 60068-2-6
ROHS marking	J

Ordering data

Type	Qty.	Order No.
IOT-GW30	1	**2682620000**

Mobile phone antennas and connection cables can be found in Chapter I.

IoT-Gateways

- Enables machine data acquisition and provides access to field devices and PLC's via various protocols and interfaces
- Interfaces to your own IT systems as well as to common cloud systems
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- Secure and easy remote maintenance with Weidmüller u-link remote access Service
- Integration of most common communication interfaces in small design
- D1Open programming platform Node-RED with strong community support

Technical data

Interfaces	
Connector for external antennas	2x SMA female
Number of SIM-Card slots	1
Digital outputs	1x, 19.2 - 28 V high; max. 1 A
Digital inputs	2x, >10 V high , <3.6 V low; max. 30 V DC
Ethernet ports	2
RJ45 ports	10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port
Serial port	1x RS232/RS485
SIM-Card slot type	Micro-SIM
USB port	1x USB 2.0 (Type A; max. 500 mA)
System data	
Real-time clock	Capacity buffered (max. 5 days)
Processor	Dual Core ARM Cortex A9, 600 MHz
Memory (Flash)	4 GB
Memory (RAM)	1 GB, DDR3
VPN functionality	
u-link	OpenVPN-based remote access service via the Weidmüller u-link cloud
Technical data	
Housing main material	Metal
Speed	Fast Ethernet
Protection degree	IP20
Type of mounting	DIN rail
Dimensions H x W x D	125 / 35 / 105 mm
Net weight	500 g
Environmental conditions	
Operating temperature	-20 °C...60 °C
Humidity	5 to 95 % (non-condensing)
Power supply	
Voltage supply	24 V DC
Voltage supply range	19.2...28VDC
Current consumption	0.24A @ 24V
Reverse polarity protection	Yes
Note	

Mobile radio interface	
Frequency band	LTE: 2100MHz (B1), 1800MHz (B3), 850MHz (B5), 2600MHz (B7), 900MHz (B8), 800MHz (B20), 2600MHz (B38), 2300MHz (B40), 2600MHz (B41), UMTS/WCDMA: 2100MHz (B1), 850MHz (B5), 900MHz (B8), GSM/GPRS/EDGE: 900MHz (B8), 1800MHz (B3)
Wireless module	LTE / HSPA+ multiband wireless module (4G / 3G / 2G) for fast wireless Internet access
LTE category	CAT 4
Download rate, max.	150
Upload rate, max.	50
Approvals	
EMC standards	EN 61000-6-3, EN 61000-6-2
Shock	according to IEC 60068-2-27
Vibration	according to IEC 60068-2-6
ROHS marking	J

Ordering data

Type	Qty.	Order No.
IOT-GW30-4G-EU	1	**2682630000**
IOT-GW30-4G-NA	1	**2682640000**

Mobile phone antennas and connection cables can be found in Chapter I.

u-remote – I/O Systems

Achieving maximum efficiency in the control cabinet

With great savings potential and optimum system performance

u-remote from Weidmüller is the reliable interface between field bus and field level in automation. The modular system is based on various components: a fieldbus coupler, up to 64 I/O modules, optional power-feed modules and a wealth of accessories, such as markers and terminating elements.

The fieldbus coupler is the central link between the various field bus standards and the u-remote system bus. At the same time, up to 64 I/O modules are supplied via its integrated power contacts. The well-engineered technology of the connection system enables 2 x 10 A to be supplied for the input and output modules and the system voltage to be fully supplied through the fieldbus coupler. Every fieldbus coupler provides direct access to the u-remote system via a web server without additional software having to be installed. This means that the system can be parameterised and its configuration checked. Inputs and outputs can also be checked or influenced. The connection may take the form of an Ethernet-based field bus or micro USB. The u-remote fieldbus couplers are integrated in the standard simple manner. The corresponding development environments of the control systems and the device description files available online, e.g. GSD, ESD, EDS or XML, can be used to easily perform the necessary settings.

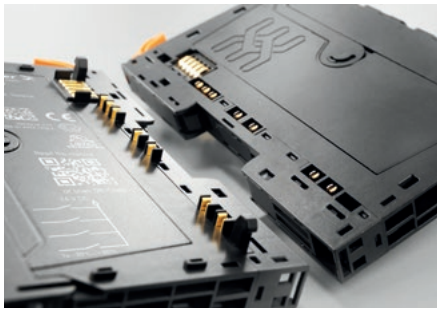
The modularly structured I/O modules are unique in that they allow the sensor and actuator wiring to be designed in both a robust and plug-in manner. This allows the electronics to be replaced at any time even with permanent wiring. This achieves an invaluable time saving, in terms of both wiring inaccessible cabinets and rapidly replacing sensors. Thanks to the “PUSH IN” technology for up to 1.5 mm², in their narrowest form of 11.5 mm, the modularly structured u-remote I/O modules can be used for all sensor and actuator connections with a very high connection density. A clear status and diagnosis display on the connection also ensures rapid and precise checks for individual sensors and actuators.

Why waste space?
Design your cabinets one size smaller: u-remote, with the highest connection density on a module, offers you the most slender module width and a far lower space requirement for power-feed modules – an unrivaled channel density and extremely flexible design options.

Simply plug and go
The plug-in connection level allows sensors and actuators to be connected with pre-assembled cables. This means improved time benefits, better handling, and minimises the number of mistakes in system wiring.

Diagnostics, even without a control connection
u-remote simplifies machine commissioning section-by-section and accelerates maintenance work with its integrated web server. Thanks to the high performance diagnostic tool, you can simulate the functionality of inputs and outputs prior to control connection.
You can conduct plain text error analyses using any standard browser – whether you're working on-site or remotely.

Intelligently separated
u-remote separates the supply for inputs and outputs using two 10 A current paths which are able to withstand high loads. High productivity translates into fewer power-feed modules and therefore more space and less planning.



PROFIBUS fieldbus coupler

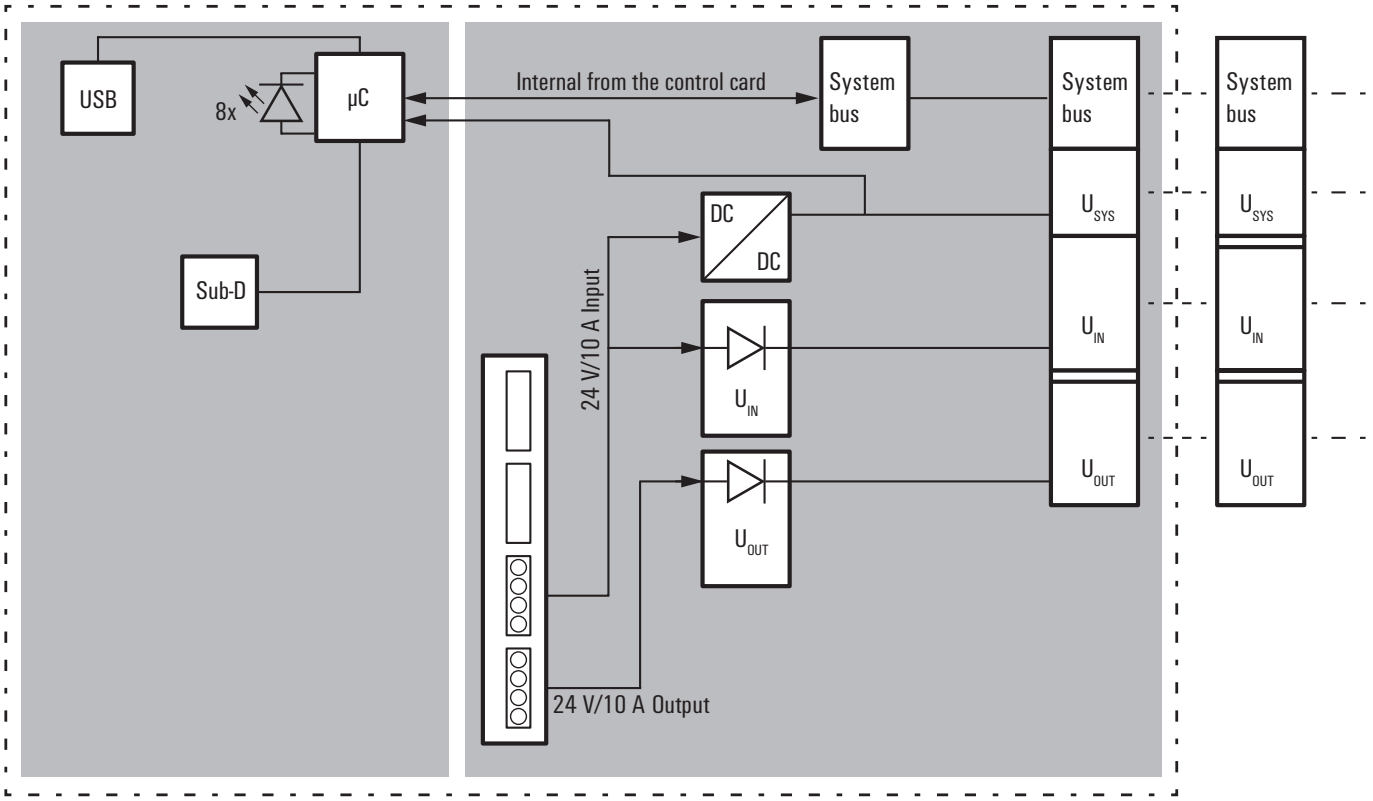
DP-V1, Web server tool, Sub-D connection

In automation technology, the PROFIBUS-DP standard enables the controlled incorporation of sensors and actuators via one central control unit.
The UR20-FBC-PB-DP-V2 fieldbus coupler is a PROFIBUS-DP-V1 participant certified by the PROFIBUS user organisation. With options for connecting up to 64 u-remote participants, it serves as the head module for the u-remote system bus. The PROFIBUS-DP coupler has a Sub-D plug-in connector and supports all services according to the DP-V1 specification. Two rotary coding switches are used to address individual PROFIBUS participants.

The coupler can be activated with a system-independent web server application via the USB service interface. All information, such as diagnoses, status values and parameters, can therefore be read out. All connected inputs can also be simulated or outputs set. The initial system power supply is already integrated in the fieldbus coupler. Power is supplied via two 4-pin connectors, separated into the input and output current paths.

Since the PROFIBUS-DP products from Weidmüller make full use of all the latest technological possibilities, such as GSD files and diagnosis messages, they actively support your application in the most important tasks – from engineering and commissioning to fault diagnosis.

Block diagram PROFIBUS fieldbus coupler



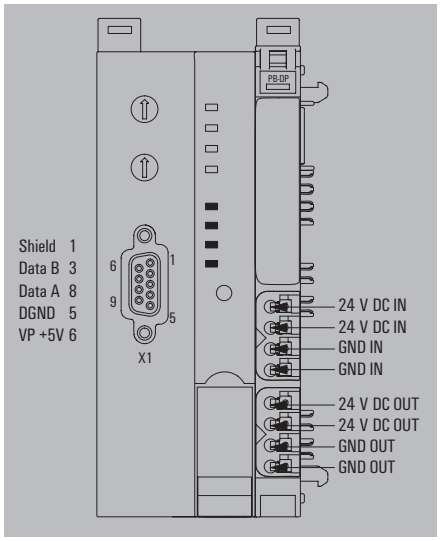
PROFIBUS

- 2 x 10 A current paths
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C
- PROFIBUS DP-V1
- Address can be set using rotary switch

UR20-FBC-PB-DP-V2

Technical data

System data	
Connection type	9-pole SUB-D socket (female)
Field bus protocol	PROFIBUS DP-V1
Process data	488 Byte
Parameter data	244 Byte
Diagnostic data	244 Byte
max. number of modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus, max.	12 Mbit/s
Transmission speed of system bus, max.	48 Mbit
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{IN} (input current path) , max.	10 A
Feed current for I_{OUT} (output current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	90 mA
General data	
Weight	247 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	Download of GSD-file on www.weidmueller.com



Ordering data

Module variants	Type	Qty.	Order No.
Field bus coupler, Profibus DP-V1	UR20-FBC-PB-DP-V2	1	2614380000
Note	A termination kit (UR20-EBK-ACC) is included in the coupler package		

Accessories

	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
USB cable (USB A to Micro USB)	IE-USB-A-MICRO-1.8M	1	1487980000
Replacement parts			
Plug-in connector unit	UR20-PK-2614380000-SP	5	2623120000
Note	1 roll = 1000 labels = 1 Qty. 1 sheet = 60 labels = 1 unit		

PROFINET fieldbus coupler

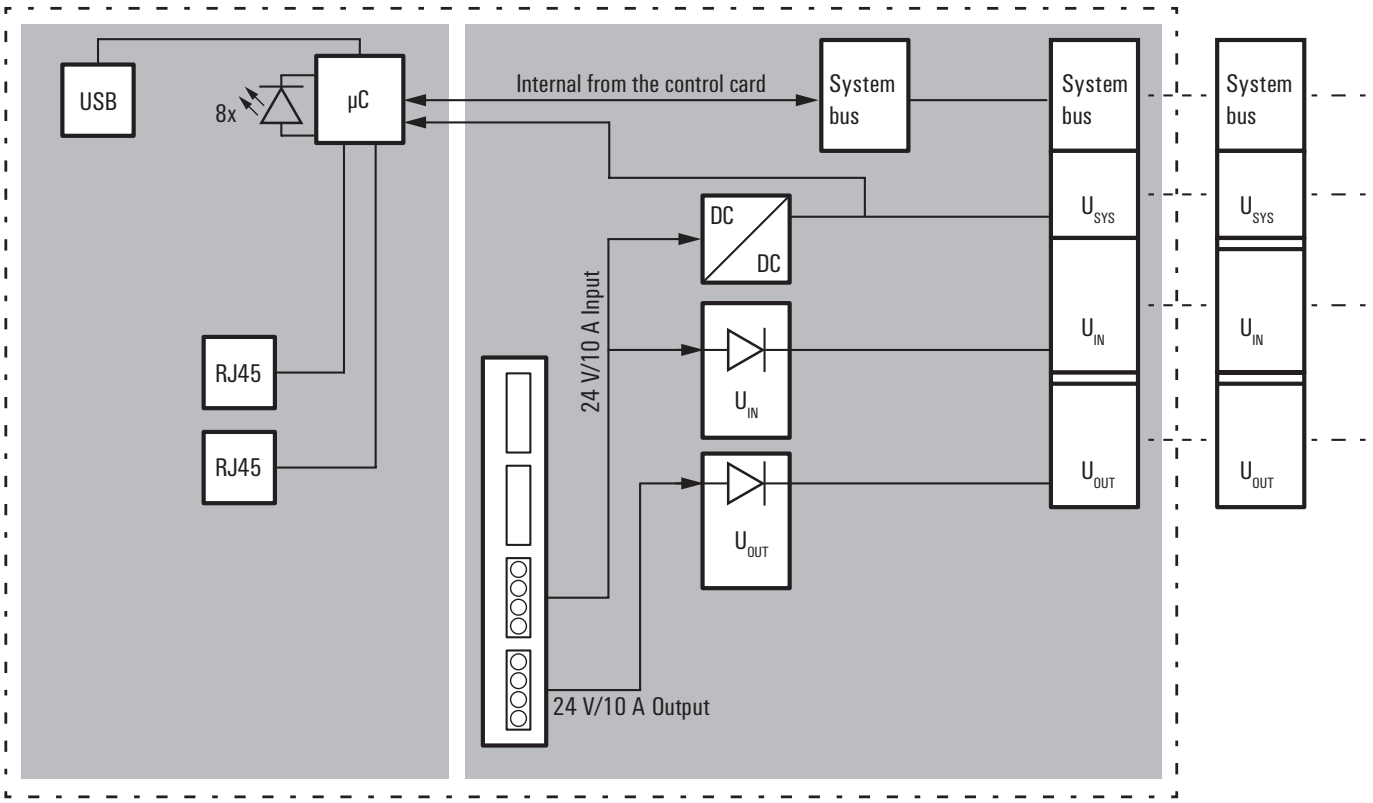
Web server tool, two RJ45 Ports, 100 Mbit/s

PROFINET is gaining in importance as a rapidly growing Industrial Ethernet Standard. By supporting real-time functionality (RT) and isochronous real-time functionality (IRT), the technology complies with modern system and application requirements to a large extent. The UR20-FBC-PN-IRT-V2 fieldbus coupler is a PROFINET-IRT participant certified by the PROFIBUS user organisation. It is able to connect up to 64 u-remote participants and two Ethernet ports with integrated switch to implement a line network structure.

The coupler can be activated with a system-independent web server application via the USB service interface or the Ethernet ports. All information, such as diagnoses, status values and parameters, can therefore be read out. All connected inputs can also be simulated or outputs set. The initial system power supply is already integrated in the fieldbus coupler. Power is supplied via two 4-pin connectors, separated into the input and output current paths.

Since the PROFINET products from Weidmüller make full use of all the latest technological possibilities, such as GSDML files and diagnosis messages, they actively support your application in the most important tasks – from engineering and commissioning to fault diagnosis.

Block diagram PROFINET fieldbus coupler



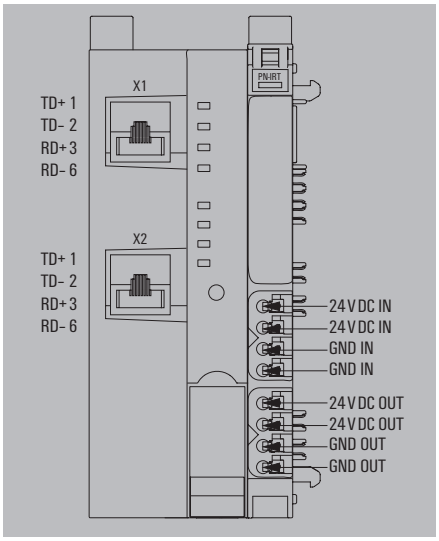
PROFINET

- 2 x 10 A current paths
- Web server
- System supply of 64 I/O modules
- Temperature range –20... +60 °C
- PROFINET IRT/RT capable
- PROFINET diagnosis
- LLDP – Neighborhood detection

UR20-FBC-PN-IRT-V2

Technical data

System data	
Connection type	2x RJ45 plug-in connectors
Field bus protocol	PROFINET IRT+RT
Process data	1024 Byte
Parameter data	1485 Byte
Diagnostic data	1485 Byte
Fast Startup	Yes
max. number of modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus, max.	100 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{IN} (input current path) , max.	10 A
Feed current for I_{OUT} (output current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	100 mA
General data	
Weight	247 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	Download of GSDML-file on www.weidmueller.com



Ordering data

Module variants	Type	Qty.	Order No.
Field bus coupler, PROFINET IRT	UR20-FBC-PN-IRT-V2	1	2566380000
Note	A termination kit (UR20-EBK-ACC) is included in the coupler package		

Accessories

	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
USB cable (USB A to Micro USB)	IE-USB-A-MICRO-1.8M	1	1487980000
Replacement parts			
Plug-in connector unit	UR20-PK-2566380000-SP	5	2623640000
Note	1 roll = 1000 labels = 1 Qty. 1 sheet = 60 labels = 1 unit		

PROFINET fieldbus coupler ECO

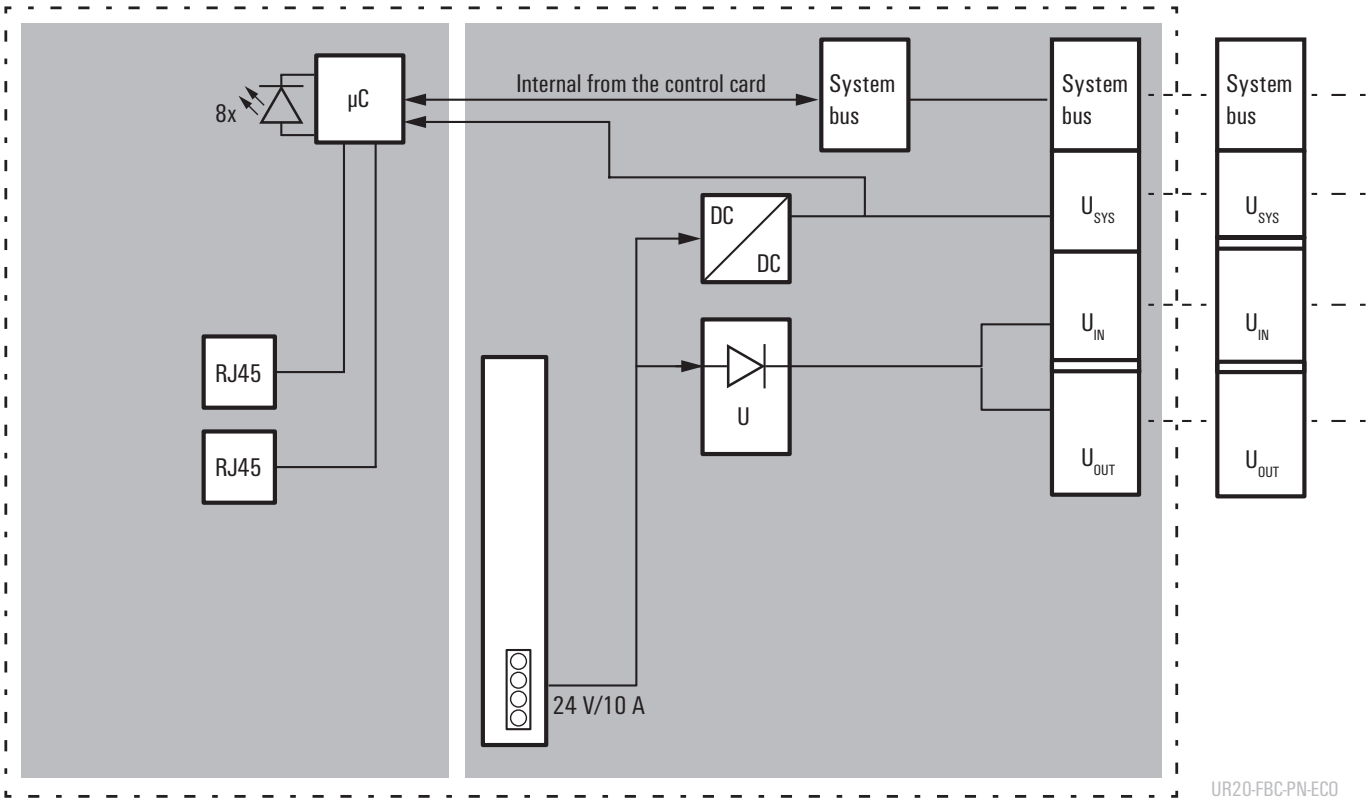
Web server tool, two RJ45 Ports, 100 Mbit/s

PROFINET is gaining in importance as a rapidly growing Industrial Ethernet Standard. By supporting real-time functionality (RT), the technology complies with modern system and application requirements to a large extent. The UR20-FBC-PN-ECO fieldbus coupler is a PROFINET participant certified by the PROFIBUS user organisation. It can connect up to 16 u-remote participants and two Ethernet ports with integrated switch to implement a line network structure.

The coupler can be activated with a system-independent web server application via the Ethernet ports. All information, such as diagnoses, status values and parameters, can therefore be read out. All connected inputs can also be simulated or outputs set. The system's initial power supply is already integrated in the ECO fieldbus coupler.

PROFINET products from Weidmüller fully exploit all the possibilities of the technology standard, e.g. using a GSDML file and diagnostic messages. In this way, they actively support your application in the most important tasks – from engineering and commissioning to fault diagnosis.

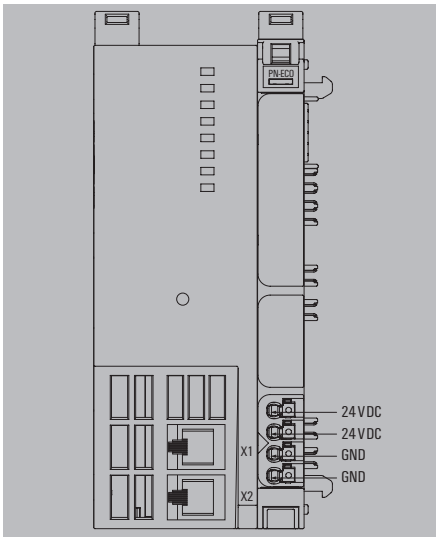
Block diagram PROFINET fieldbus coupler ECO



PROFINET ECO

- 10 A current paths
- Web server via ethernet
- System supply of 16 I/O modules
- Temperature range 0... +50 °C
- PROFINET RT capable
- PROFINET diagnosis

UR20-FBC-PN-ECO



Technical data

System data	
Connection type	2x RJ45 plug-in connectors
Field bus protocol	PROFINET RT
Process data	1024 Byte
Parameter data	4362 kByte
Diagnostic data	1408 Byte
Fast Startup	Yes
max. number of modules	16
Transmission rate of field bus, max.	100 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Feed current for I_{IN} (input current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	80 mA
General data	
Weight	247 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	Download of GSDML-file on www.weidmueller.com

Ordering data

Module variants	Type	Qty.	Order No.
Field bus coupler, PROFINET RT	UR20-FBC-PN-ECO	1	**2659680000**
Note	A termination kit (UR20-EBK-ACC) is included in the coupler package.		

Accessories

	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swievel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Replacement parts			
Plug-in connector unit	UR20-PK-2659680000-SP	5	**2702590000**
Note	1 roll = 1000 labels = 1 Qty. 1 sheet = 60 labels = 1 unit		

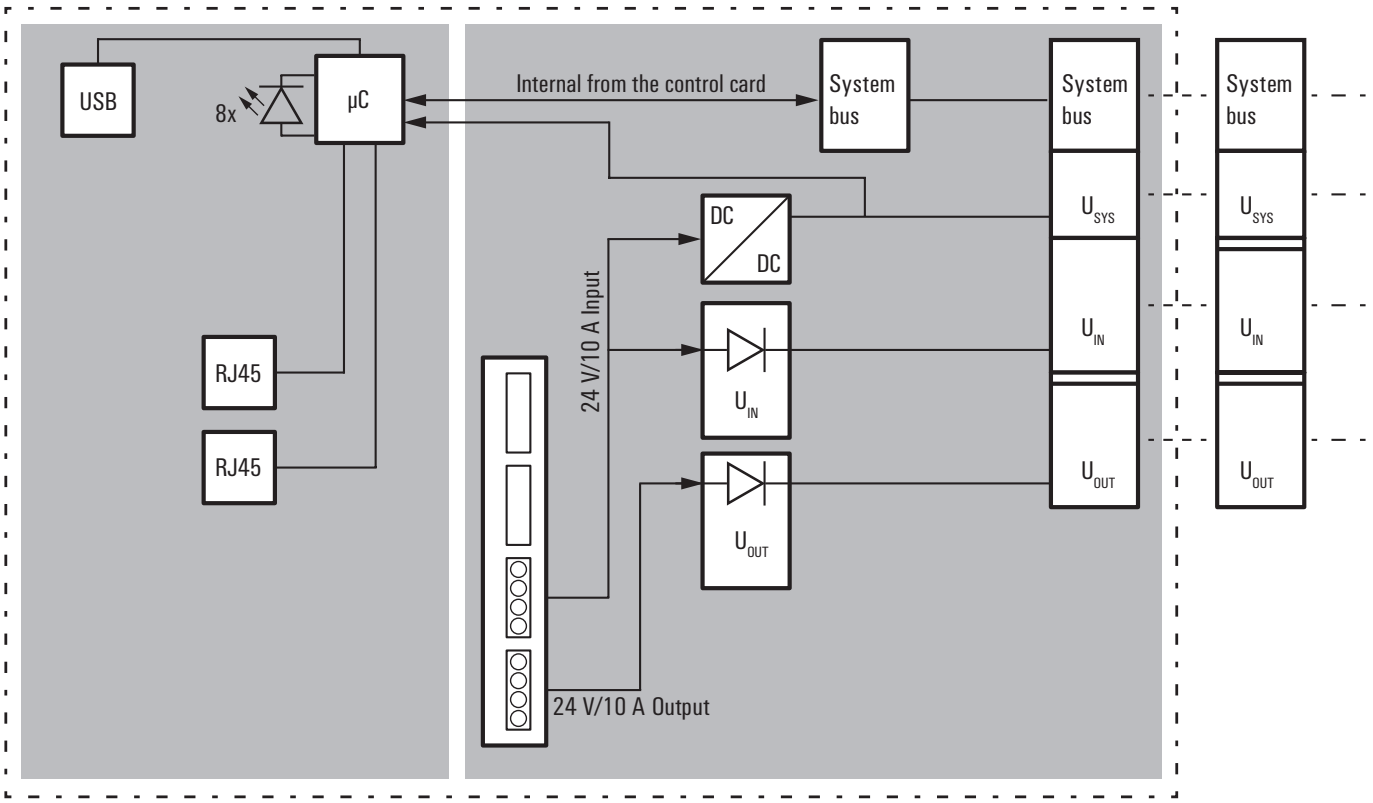
EtherCAT fieldbus coupler
Web server tool, two RJ45 Ports, 10/100 Mbit/s

EtherCAT is a popular field bus standard for systems with stringent time requirements. The UR20-FBC-EC fieldbus coupler is an EtherCAT participant certified by the EtherCAT Technology Group. With options for connecting up to 64 u-remote participants, it serves as the head module for the u-remote system bus. The EtherCAT coupler has two Ethernet ports with integrated switch for implementing a line network structure.

The coupler can be activated with a system-independent web server application via the USB service interface or the Ethernet ports. All information, such as diagnoses, status values and parameters, can therefore be read out. All connected inputs can also be simulated or outputs set. The system's initial power supply is already integrated in the fieldbus coupler. Power is supplied via two 4-pin connectors, separated into the input and output current paths.

Since the EtherCAT products from Weidmüller make full use of all the latest technological possibilities, such as use of XML files, they actively support your application in the most important tasks – from engineering and commissioning to fault diagnosis.

Block diagram EtherCAT fieldbus coupler



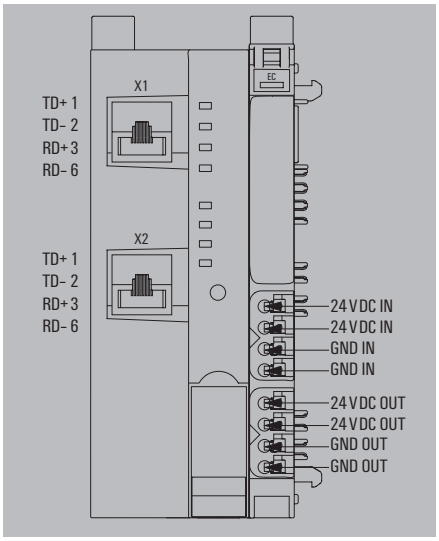
EtherCAT

- 2 x 10 A current path
- Web server
- System supply for 64 I/O modules
- Temperature range: -20... +60 °C
- Various EtherCAT services

UR20-FBC-EC

Technical data

System data	
Connection type	2x RJ45 plug-in connectors
Field bus protocol	EtherCAT
Process data	1024 Byte
Parameter data	4 kByte
Diagnostic data	3200 Byte
max. number of modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus, max.	100 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{IN} (input current path) , max.	10 A
Feed current for I_{OUT} (output current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	130 mA
General data	
Weight	227 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	Download of ESI-file on www.weidmueller.com



Ordering data

Module variants	Type	Qty.	Order No.
Field bus coupler, EtherCAT	UR20-FBC-EC	1	1334910000
Note	A termination kit (UR20-EBK-ACC) is included in the coupler package		

Accessories

	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
USB cable (USB A to Micro USB)	IE-USB-A-MICRO-1.8M	1	1487980000
Replacement parts			
Plug-in connector unit	UR20-PK-1334910000-SP	5	1484440000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

EtherCAT fieldbus coupler ECO

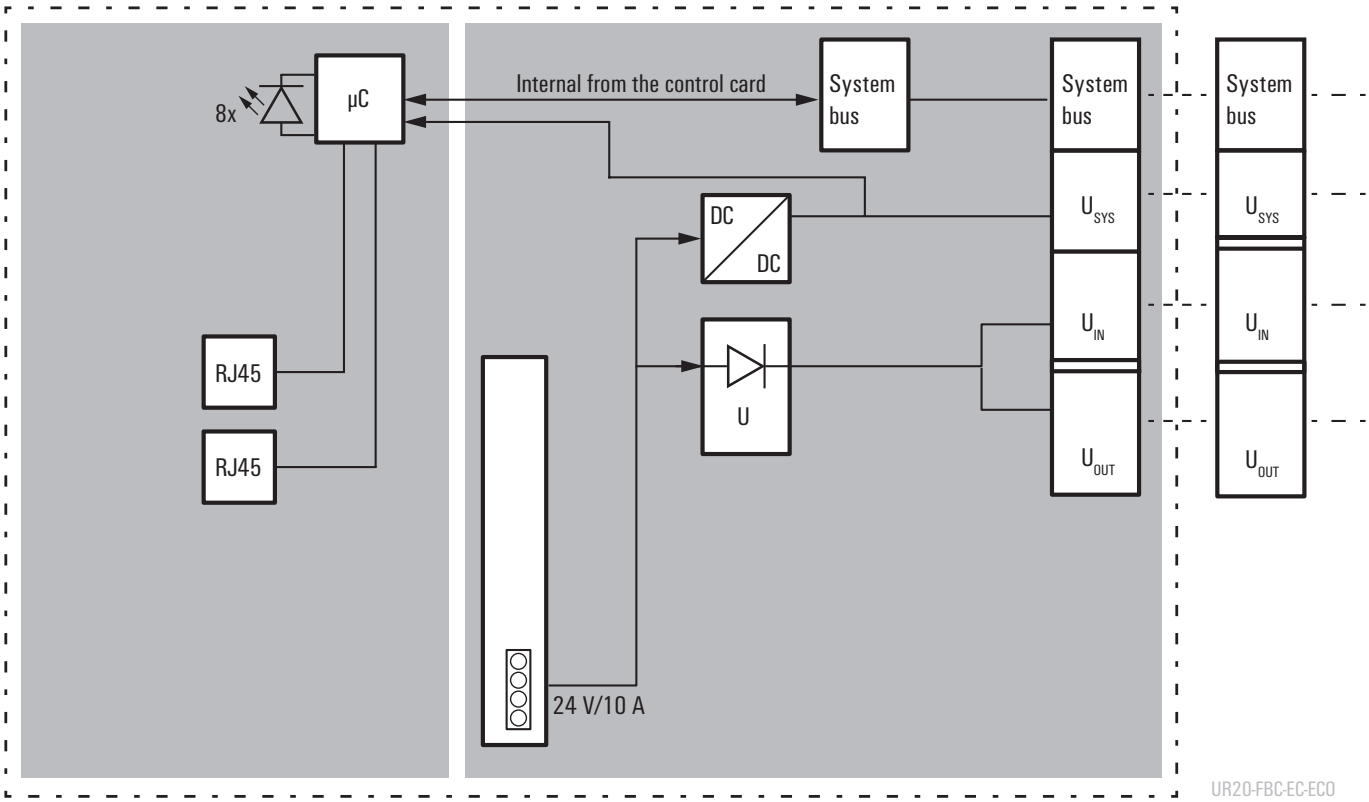
Web server tool, two RJ45 Ports, 100 Mbit/s

EtherCAT is a popular field bus standard for systems with stringent time requirements. The UR20-FBC-EC-ECO fieldbus coupler is an EtherCAT participant certified by the EtherCAT Technology Group. With options for connecting up to 16 u-remote participants, it serves as the head module for the u-remote system bus. The EtherCAT coupler ECO has two Ethernet ports with integrated switch for implementing a line network structure.

The coupler can be activated with a system-independent web server application via the Ethernet ports. All information, such as diagnoses, status values and parameters, can therefore be read out. All connected inputs can also be simulated or outputs set. The initial system power supply is already integrated in the fieldbus coupler.

EtherCAT products from Weidmüller fully exploit all the possibilities of the technology standard, e.g. the use of ESI files. In this way, they actively support your application in the most important tasks – from engineering and commissioning to fault diagnosis.

Block diagram EtherCAT fieldbus coupler ECO



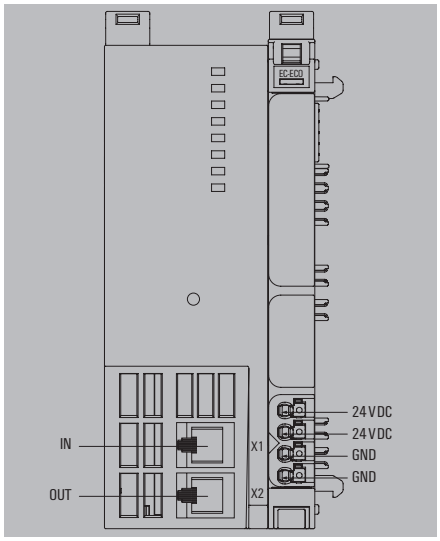
EtherCAT ECO

- 10 A current paths
- Web server via ethernet
- System supply of 16 I/O modules
- Temperature range 0... +50 °C
- Various EtherCAT services

UR20-FBC-EC-ECO

Technical data

System data	
Connection type	2x RJ45 plug-in connectors
Field bus protocol	EtherCAT
Process data	1024 Byte
Parameter data	1024 Byte
Diagnostic data	800 Byte
max. number of modules	16
Transmission rate of field bus, max.	100 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Feed current for I_{IN} (input current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	80 mA
General data	
Weight	247 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	Download of ESI-file on www.weidmueller.com



Ordering data

Module variants	Type	Qty.	Order No.
Field bus coupler, EtherCAT	UR20-FBC-EC-ECO	1	2659690000
Note	A termination kit (UR20-EBK-ACC) is included in the coupler package.		

Accessories

	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Plug-in connector unit	UR20-PK-2659690000-SP	5	2702600000
Note	1 roll = 1000 labels = 1 Qty. 1 sheet = 60 labels = 1 unit		

ModbusTCP fieldbus coupler
Web server tool, two RJ45 Ports, 10/100 Mbit/s

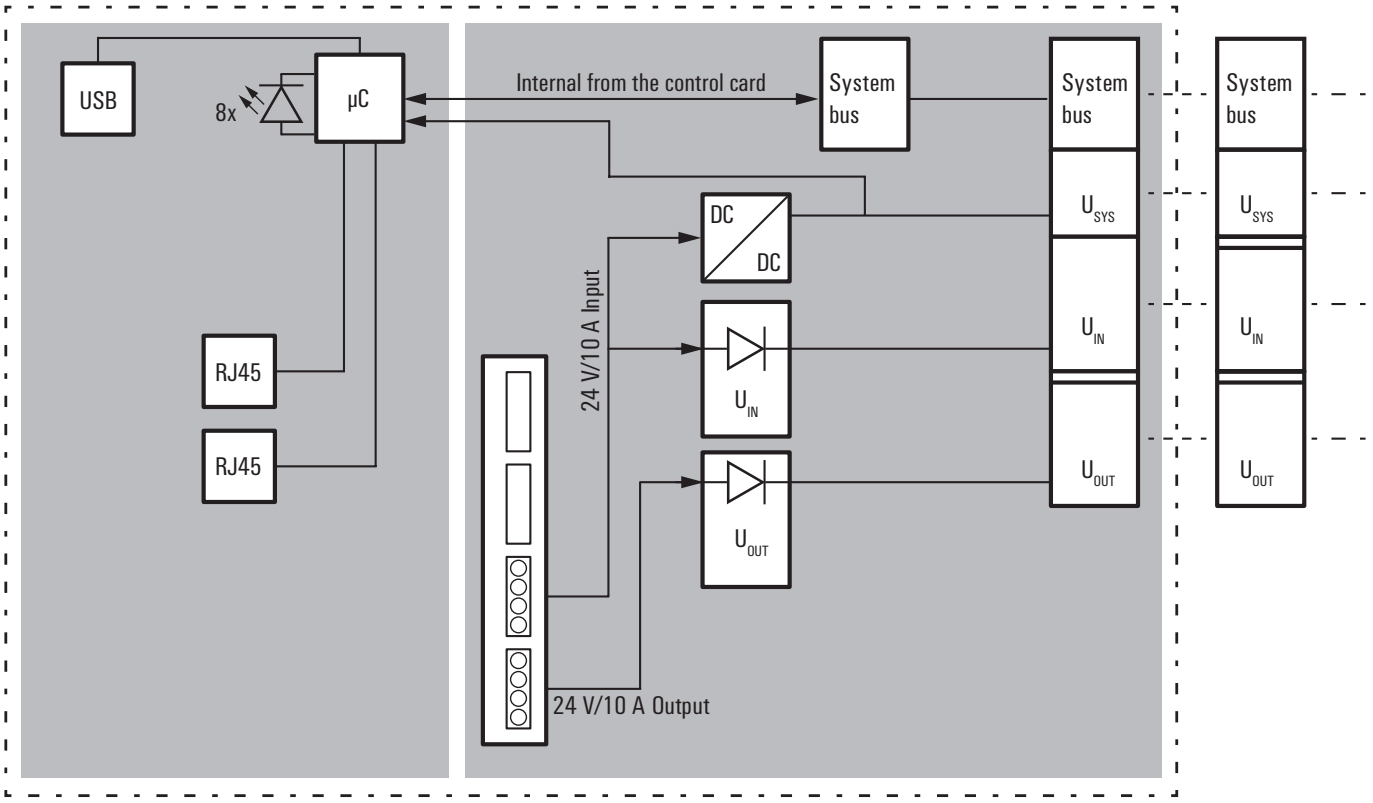
ModbusTCP

System safety around the globe is provided by the ModbusTCP version, which is stated in IEC 61158 as an Industrial Ethernet Standard. The UR20-FBC-MOD-TCP-V2 from Weidmüller is a fieldbus coupler designed in accordance with IEC 61158. With options for connecting up to 64 u-remote participants, it serves as the head module for the u-remote system bus.

The coupler can be activated with a system-independent web server application via the USB service interface or the Ethernet ports. All information, such as diagnoses, status values and parameters, can therefore be read out. All connected inputs can also be simulated or outputs set. The system's initial power supply is already integrated in the fieldbus coupler. Power is supplied via two 4-pin connectors, separated into the input and output current paths.

Since the ModbusTCP products from Weidmüller make full use of all the latest technological possibilities, such as diagnosis options, they actively support your application in the most important tasks – from engineering and commissioning to fault diagnosis.

Block diagram Modbus TCP fieldbus coupler



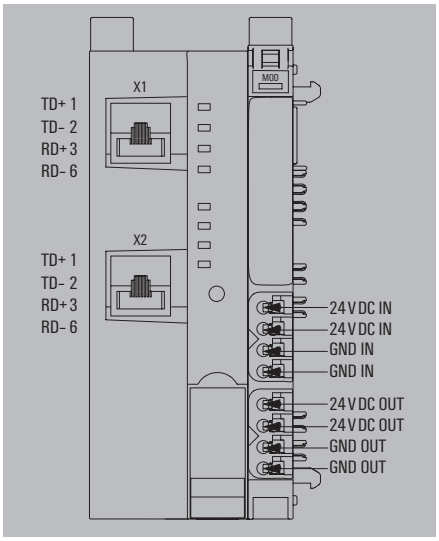
ModbusTCP

- 2 x 10 A current path
- Web server
- System supply for 64 I/O modules
- Temperature range: -20... +60 °C
- Dual LAN mode
- Various Modbus services

UR20-FBC-MOD-TCP-V2

Technical data

System data	
Connection type	2x RJ45 plug-in connectors
Field bus protocol	Modbus/TCP
Process data	1 kByte
Parameter data	1024 Byte
Diagnostic data	1024 Byte
max. number of modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus, max.	100 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{IN} (input current path) , max.	10 A
Feed current for I_{OUT} (output current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	112 mA
General data	
Weight	223 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Fieldbus coupler, ModbusTCP	UR20-FBC-MOD-TCP-V2	1	**2476450000**
Note	A termination kit (UR20-EBK-ACC) is included in the coupler package		

Accessories

	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swivel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
USB cable (USB A to Micro USB)	IE-USB-A-MICRO-1.8M	1	**1487980000**
Replacement parts			
Plug-in connector unit	UR20-PK-2476450000-SP	5	**2485280000**
Note	1 roll = 1000 labels = 1 Qty. 1 sheet = 60 labels = 1 unit		

ModbusTCP fieldbus coupler ECO

Web server tool, two RJ45 Ports, 100 Mbit/s

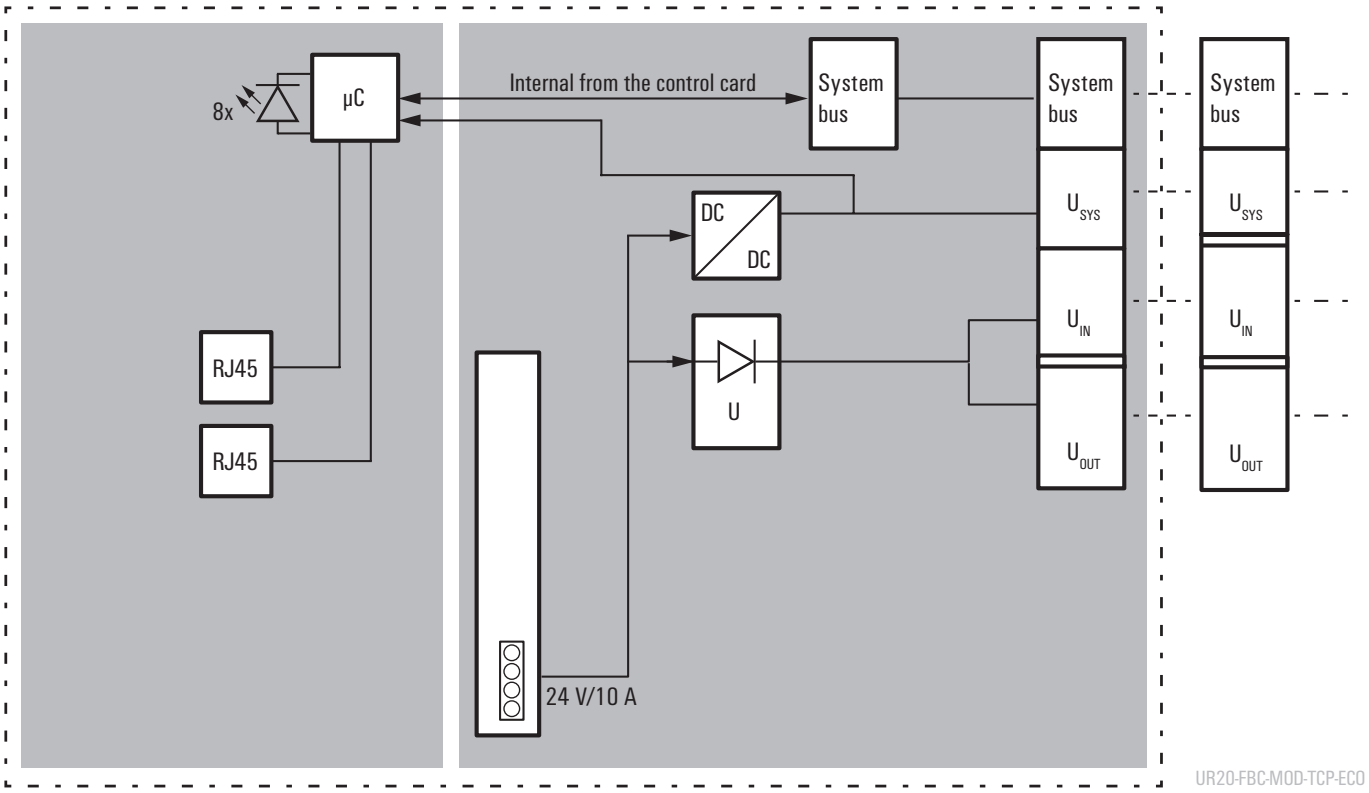
ModbusTCP

System safety around the globe is provided by the Modbus TCP version, which is stated in IEC 61158 as an Industrial Ethernet Standard. The UR20-FBC-MOD-TCP-ECO from Weidmüller is a fieldbus coupler designed in accordance with IEC 61158. With options for connecting up to 16 u-remote participants, it serves as the head module for the u-remote system bus.

The coupler can be activated with a system-independent web server application via the Ethernet ports. All information, such as diagnoses, status values and parameters, can therefore be read out. All connected inputs can also be simulated or outputs set. The initial system power supply is already integrated in the fieldbus coupler.

ModbusTCP products from Weidmüller fully exploit all the possibilities of the technology standard, e.g. through diagnostic options. In this way, they actively support your application in the most important tasks – from engineering and commissioning to fault diagnosis.

Block diagram Modbus TCP fieldbus coupler ECO



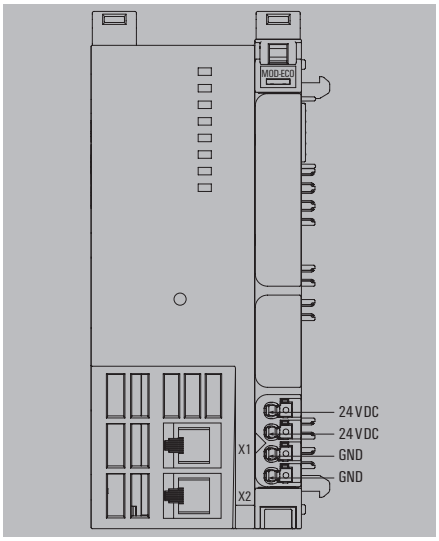
ModbusTCP ECO

- 10 A current paths
- Web server via ethernet
- System supply of 16 I/O modules
- Temperature range 0... +50 °C
- Various Modbus services

UR20-FBC-MOD-TCP-ECO

Technical data

System data	
Connection type	2x RJ45 plug-in connectors
Field bus protocol	Modbus/TCP
Process data	1 kByte
Parameter data	1 kByte
Diagnostic data	1 kByte
max. number of modules	16
Transmission rate of field bus, max.	100 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Feed current for I_{IN} (input current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	80 mA
General data	
Weight	247 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	



Ordering data

Module variants		
Fieldbus coupler, ModbusTCP		
Note		

Type	Qty.	Order No.
UR20-FBC-MOD-TCP-ECO	1	**2659700000**
A termination kit (UR20-EBK-ACC) is included in the coupler package.		

Accessories

	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swievel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Replacement parts			
Plug-in connector unit	UR20-PK-2659700000-SP	5	**2702610000**
Note	1 roll = 1000 labels = 1 Qty. 1 sheet = 60 labels = 1 unit		

EtherNet/IP™ fieldbus coupler

Web server tool, two RJ45 Ports, 10/100 Mbit/s

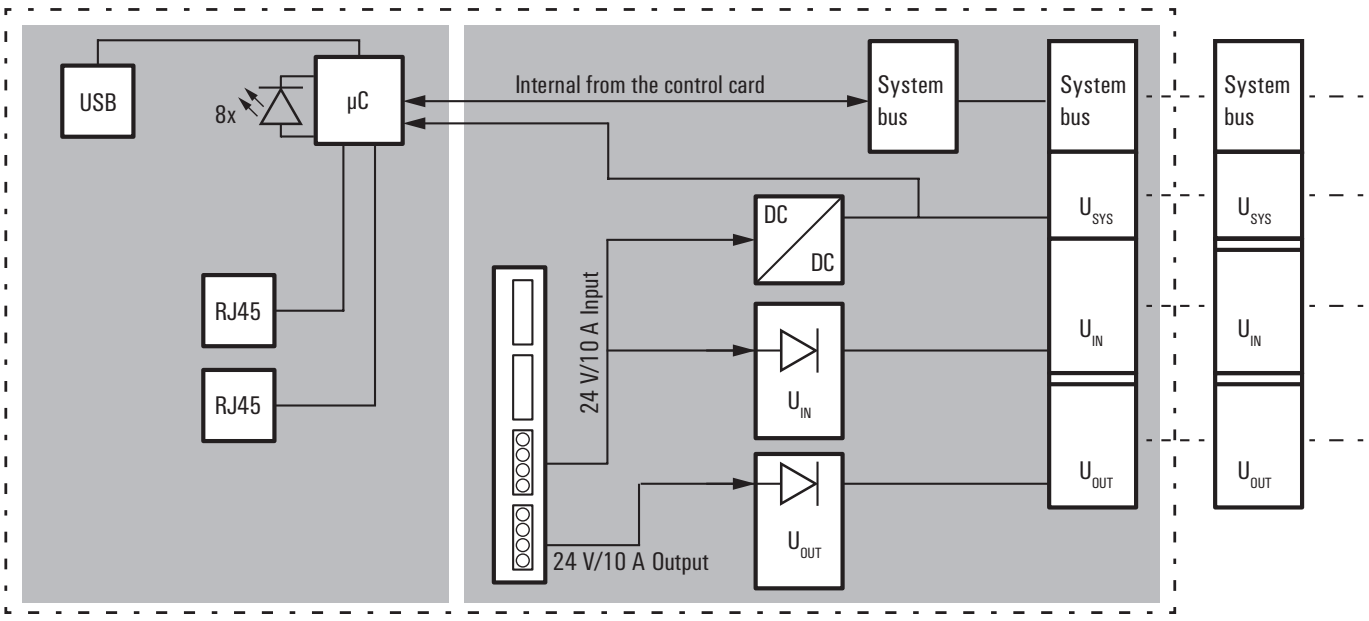
EtherNet/IP™ is a widely used, real-time capable industrial Ethernet field bus system. Based on Ethernet technology standards such as TCP and UDP, EtherNet/IP™ offers not only the transmission of unicast messages between two participants but also the possibility of sending I/O data cyclically to several recipients via multicast. The fieldbus couplers UR20-FBC-EIP and UR20-FBC-EIP-V2, developed according to IEC 61158, are EtherNet/IP™ participants. With options for connecting up to 64 u-remote participants, it serves as the head module for the u-remote system bus.

The coupler can be activated with a system-independent web server application via the USB service interface or the Ethernet ports. All information, such as diagnoses, status values and parameters, can therefore be read out. All connected inputs can also be simulated or outputs set. The system's initial power supply is already integrated in the coupler. Power is supplied via two 4-pin connectors, separated into the input and output current paths.

The UR20-FBC-EIP-V2 coupler also supports the redundancy protocols Device Level Ring (DLR), Parallel Redundancy Protocol (PRP) and RSTP. VLAN tagging can also be activated.

EtherNet/IP™ products from Weidmüller fully exploit all the possibilities of the technology standard, e.g. through diagnostic options. In this way, they actively support your application in the most important tasks – from engineering and commissioning to fault diagnosis.

Block diagram EtherNet/IP™ fieldbus coupler



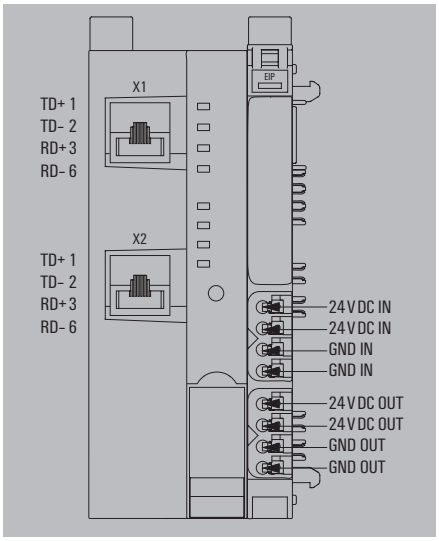
EtherNet/IP™

- 2 x 10 A current path
- Web server
- System supply for 64 I/O modules
- Temperature range: -20... +60 °C

UR20-FBC-EIP

Technical data

System data	
Connection type	2x RJ45 plug-in connectors
Field bus protocol	EtherNet/IP
Process data	988 Byte
Parameter data	4 kByte
Diagnostic data	3008 Byte
max. number of modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus, max.	100 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{IN} (input current path) , max.	10 A
Feed current for I_{OUT} (output current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	112 mA
General data	
Weight	223 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	Download of EDS-file on www.weidmueller.com



Ordering data

Module variants	Type	Qty.	Order No.
Field bus coupler, EtherNet/IP	UR20-FBC-EIP	1	1334920000
Note	A termination kit (UR20-EBK-ACC) is included in the coupler package		

Accessories

	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
USB cable (USB A to Micro USB)	IE-USB-A-MICRO-1.8M	1	1487980000
Replacement parts			
Plug-in connector unit	UR20-PK-1334920000-SP	5	1541290000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

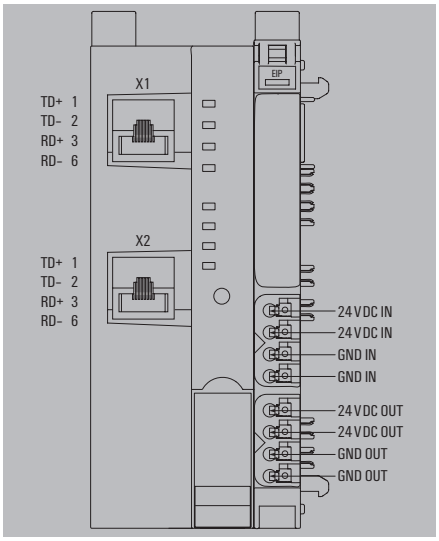
EtherNet/IP™

- 2 x 10 A current path
- Web server
- System supply for 64 I/O modules
- Temperature range: -20... +60 °C
- Redundancy capable via DL/PRP (IEC 62439-6)

UR20-FBC-EIP-V2

Technical data

System data	
Connection type	2x RJ45 plug-in connectors
Field bus protocol	EtherNet/IP
Process data	988 Byte
Parameter data	4 kByte
Diagnostic data	3008 Byte
max. number of modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus, max.	100 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{IN} (input current path) , max.	10 A
Feed current for I_{OUT} (output current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	100 mA
General data	
Weight	223 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	Download of EDS-file on www.weidmueller.com



Ordering data

Module variants	Type	Qty.	Order No.
Field bus coupler, EtherNet/IP	UR20-FBC-EIP-V2	1	1550550000
Note	A termination kit (UR20-EBK-ACC) is included in the coupler package		

Accessories

	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
USB cable (USB A to Micro USB)	IE-USB-A-MICRO-1.8M	1	1487980000
Replacement parts			
Plug-in connector unit	UR20-PK-1550550000-SP	1	2780340000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

EtherNet/IP™ fieldbus coupler ECO

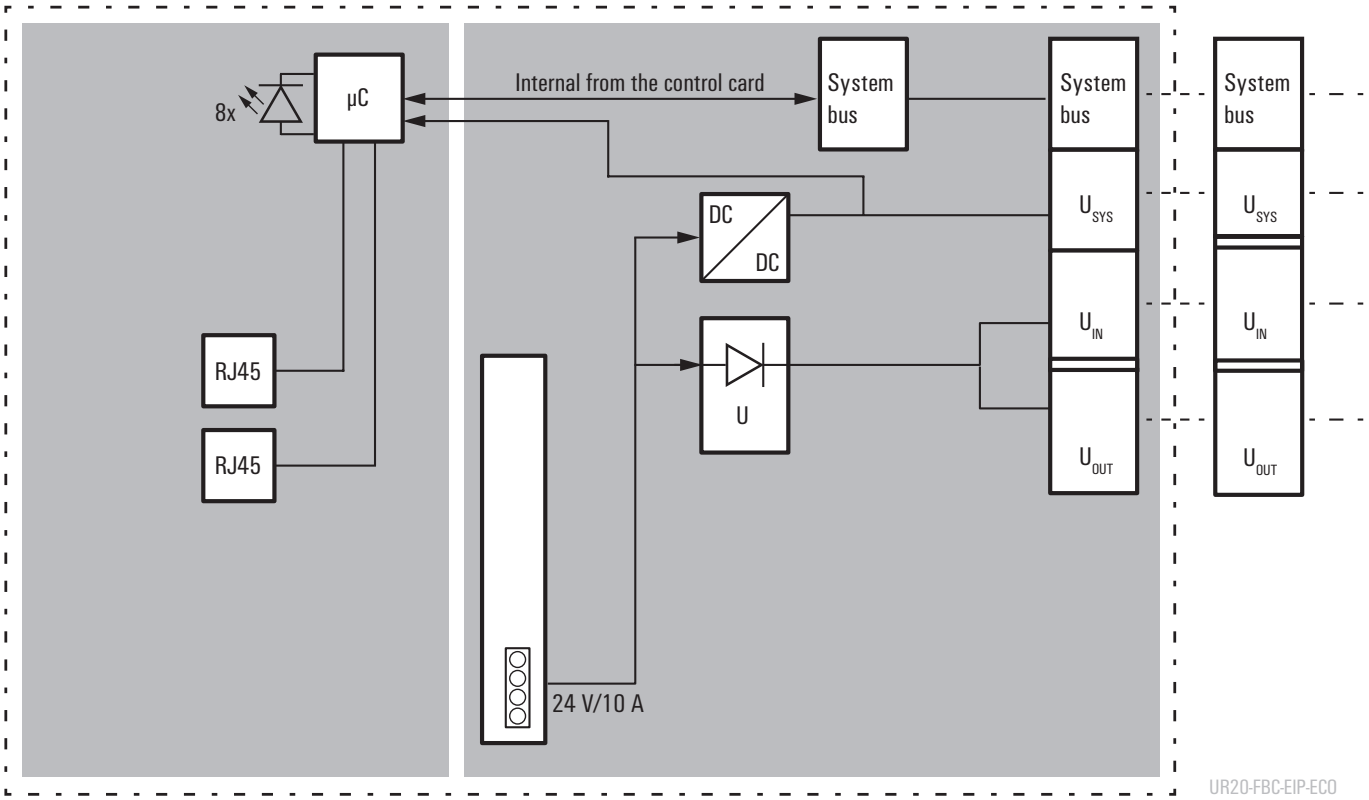
Web server tool, two RJ45 Ports, 10/100 Mbit/s

EtherNet/IP™ is a widely used, real-time capable industrial Ethernet field bus system. Based on Ethernet technology standards such as TCP and UDP, EtherNet/IP™ offers not only the transmission of unicast messages between two participants but also the possibility of sending I/O data cyclically to several recipients via multicast. The fieldbus coupler UR20-FBC-EIP-ECO, developed according to IEC 61158, is an EtherNet/IP™ participant. With options for connecting up to 16 u-remote participants, it serves as the head module for the u-remote system bus.

The coupler can be activated with a system-independent web server application via the Ethernet ports. All information, such as diagnoses, status values and parameters, can therefore be read out. All connected inputs can also be simulated or outputs set. The system's initial power supply is already integrated in the coupler.

EtherNet/IP™ products from Weidmüller fully exploit all the possibilities of the technology standard, e.g. through diagnostic options. In this way, they actively support your application in the most important tasks – from engineering and commissioning to fault diagnosis.

Block diagram EtherNet/IP™ fieldbus coupler ECO



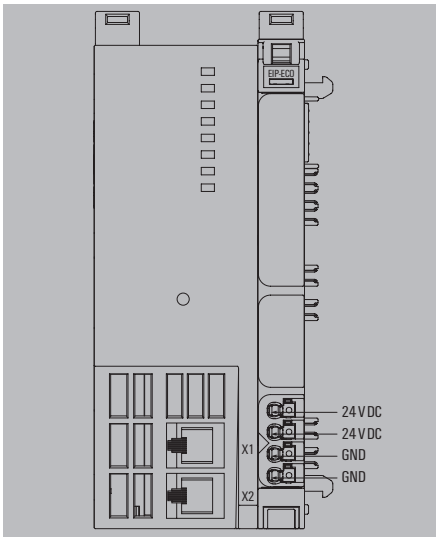
EtherNet/IP™ ECO

- 10 A current paths
- Web server via ethernet
- System supply of 16 I/O modules
- Temperature range 0... +50 °C

UR20-FBC-EIP-ECO

Technical data

System data	
Connection type	2x RJ45 plug-in connectors
Field bus protocol	EtherNet/IP
Process data	988 Byte
Parameter data	1024 Byte
Diagnostic data	752 Byte
max. number of modules	16
Transmission rate of field bus, max.	100 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Feed current for I_{IN} (input current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	61 mA
General data	
Weight	247 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	Download of EDS-file on www.weidmueller.com



Ordering data

Module variants	Type	Qty.	Order No.
Field bus coupler, EtherNet/IP	UR20-FBC-EIP-ECO	1	2799510000
Note	A termination kit (UR20-EBK-ACC) is included in the coupler package.		

Accessories

	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Plug-in connector unit	UR20-PK-2799510000-SP	1	2832900000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

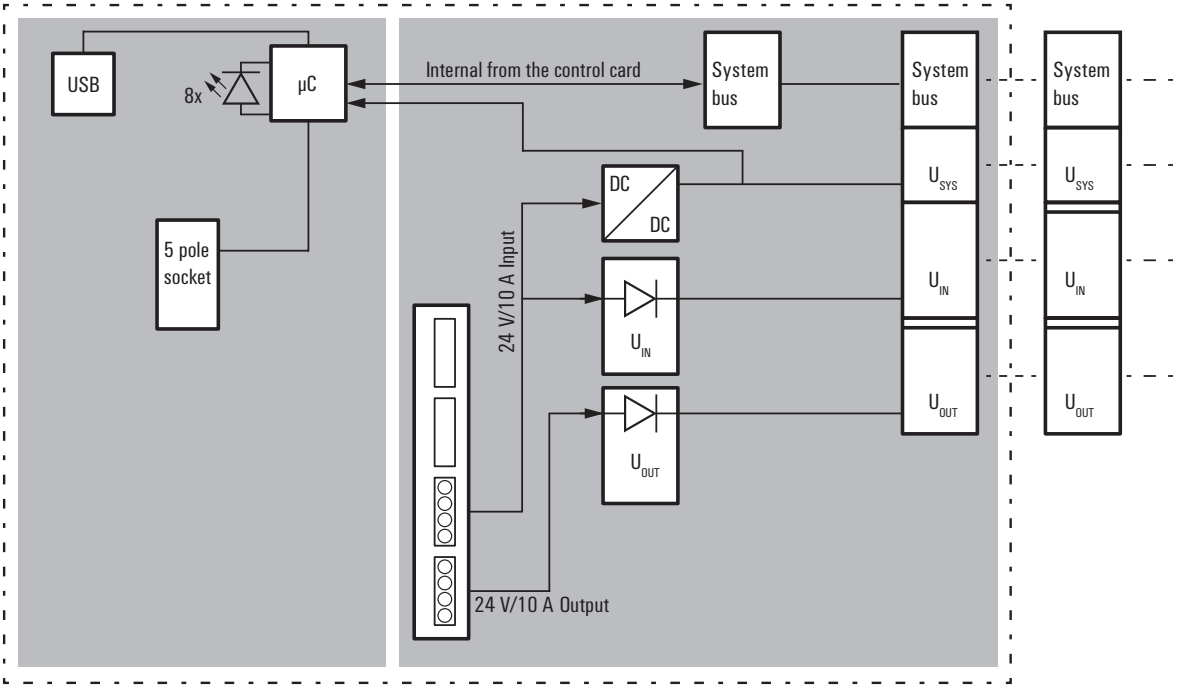
DeviceNet™ fieldbus coupler
Web server tool, PCB plug-in connector

DeviceNet™ is a serial, CAN-based field bus system, which was developed by Allen-Bradley and later on passed as an open standard to the ODVA (Open DeviceNet™ Vendor Association). Today it is used worldwide in automation technology. DeviceNet™ can be operated with a maximum of 64 network nodes per field bus segment. The fieldbus coupler UR20-FBC-DN is connected via a 5-pin PCB connector to the network. With options for connecting up to 64 u-remote participants, it serves as the head module for the u-remote system bus.

The coupler can be activated with a system-independent web server application via the USB service interface. All information, such as diagnoses, status values and parameters, can therefore be read out. All connected inputs can also be simulated or outputs set. The initial system power supply is already integrated in the fieldbus coupler. Power is supplied via two 4-pin connectors, separated into the input and output current paths.

Since the DeviceNet™ products from Weidmüller make full use of all the latest technological possibilities, such as diagnosis options, they actively support your application in the most important tasks – from engineering and commissioning to fault diagnosis.

Block diagram DeviceNet™ fieldbus coupler



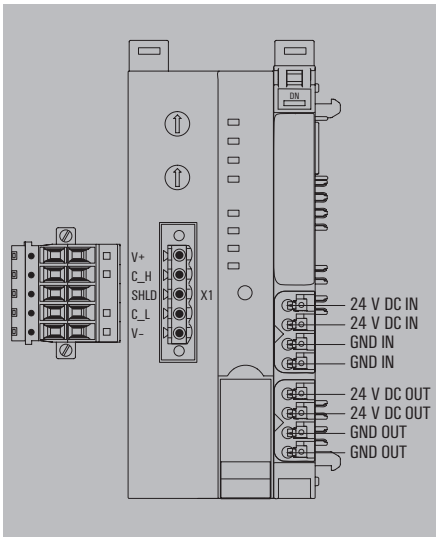
DeviceNet™

- 2 x 10 A current path
- Web server
- System supply for 64 I/O modules
- Temperature range: -20... +60 °C

UR20-FBC-DN

Technical data

System data	
Connection type	Socket for 5-pole PCB plug-in connector
Field bus protocol	DeviceNet
Process data	1008 Byte
Parameter data	4 kByte
Diagnostic data	3008 Byte
max. number of modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus, max.	500 kbit/s
Transmission speed of system bus, max.	48 Mbit/s
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{IN} (input current path) , max.	10 A
Feed current for I_{OUT} (output current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	75 mA (+15 mA from DeviceNet supply)
General data	
Weight	220 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	Download of EDS-file on www.weidmueller.com



Ordering data

Module variants	Type	Qty.	Order No.
Field bus coupler, DeviceNet	UR20-FBC-DN	1	1334900000
Note	A termination kit (UR20-EBK-ACC) is included in the coupler package		

Accessories

	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
USB cable (USB A to Micro USB)	IE-USB-A-MICRO-1.8M	1	1487980000
PCB plug-in connector, socket plug, 5 pole, 10 pin	BLDZ DN5.08/05/180F GY BX PRT	50	1919990000
Replacement parts			
Plug-in connector unit	UR20-PK-1334900000-SP	5	2003540000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

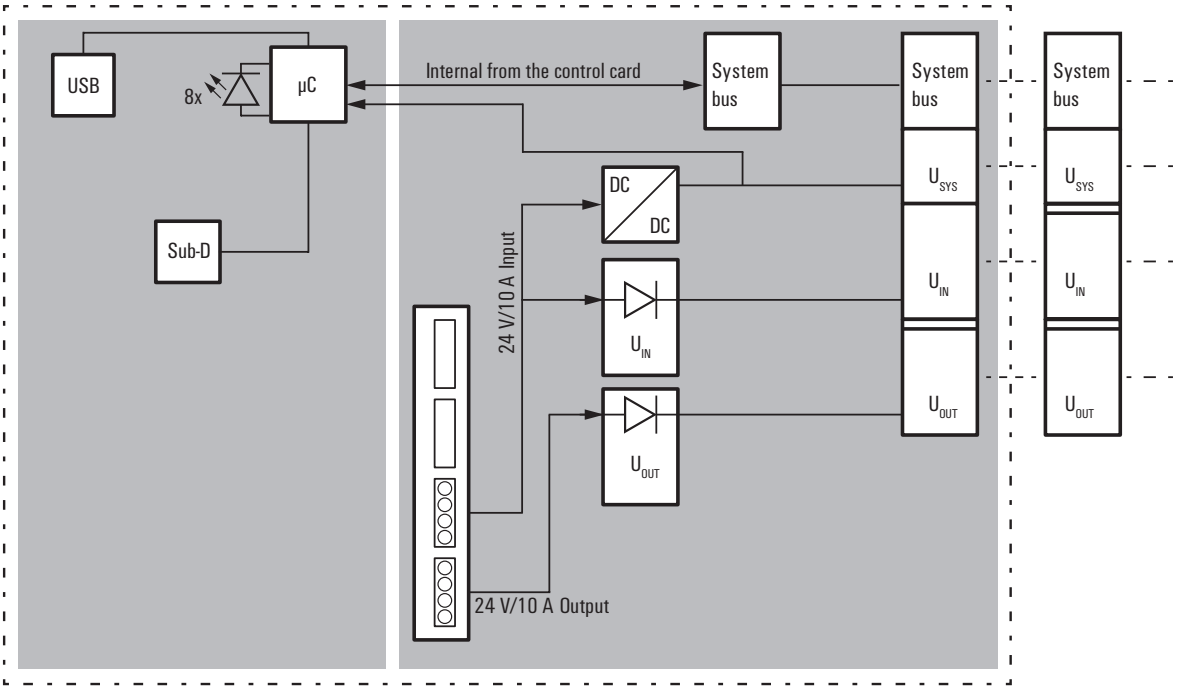
CANopen® fieldbus coupler
Web server tool; Sub-D connection

The CAN bus (Controller Area Network) is a serial field bus, which was introduced in 1983 by Bosch and Intel. Due to the good characteristics it is particularly suitable for applications where high data security is required. The fieldbus coupler UR20-FBC-CAN uses the CAN based Layer 7 communication protocol CANopen®, the device profile CiA DS401 for digital and analog I/O modules is supported. With options for connecting up to 64 u-remote participants, it serves as the head module for the u-remote system bus.

The coupler can be activated with a system-independent web server application via the USB service interface. All information, such as diagnoses, status values and parameters, can therefore be read out. All connected inputs can also be simulated or outputs set. The initial system power supply is already integrated in the fieldbus coupler. Power is supplied via two 4-pin connectors, separated into the input and output current paths.

Since the CANopen® products from Weidmüller make full use of all the latest technological possibilities, such as diagnosis options, they actively support your application in the most important tasks – from engineering and commissioning to fault diagnosis.

Block diagram CANopen® fieldbus coupler



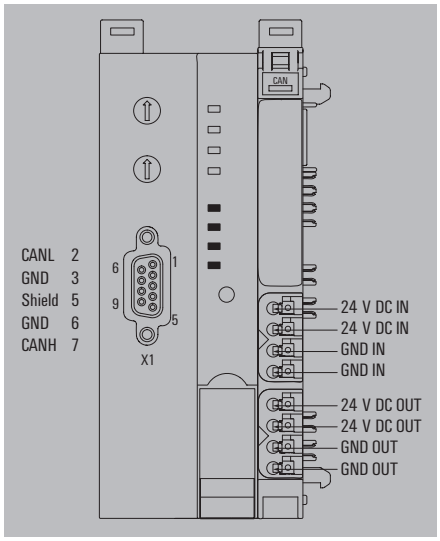
CANopen®

- 2 x 10 A current path
- Web server
- System supply for 64 I/O modules
- Temperature range: -20... +60 °C

UR20-FBC-CAN

Technical data

System data	
Connection type	SUB-D9 (male plug)
Field bus protocol	CANopen
Process data	488 Byte
Parameter data	244 Byte
Diagnostic data	244 Byte
max. number of modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus, max.	1 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{IN} (input current path) , max.	10 A
Feed current for I_{OUT} (output current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	90 mA
General data	
Weight	220 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	Download of EDS-file on www.weidmueller.com



Ordering data

Module variants	Type	Qty.	Order No.
Field bus coupler, CANopen	UR20-FBC-CAN	1	1334890000
Note	A termination kit (UR20-EBK-ACC) is included in the coupler package		

Accessories

	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
USB cable (USB A to Micro USB)	IE-USB-A-MICRO-1.8M	1	1487980000
Replacement parts			
Plug-in connector unit	UR20-PK-1334890000-SP	5	2003530000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

POWERLINK fieldbus coupler
Web server tool, two RJ45 Ports, 100 Mbit/s

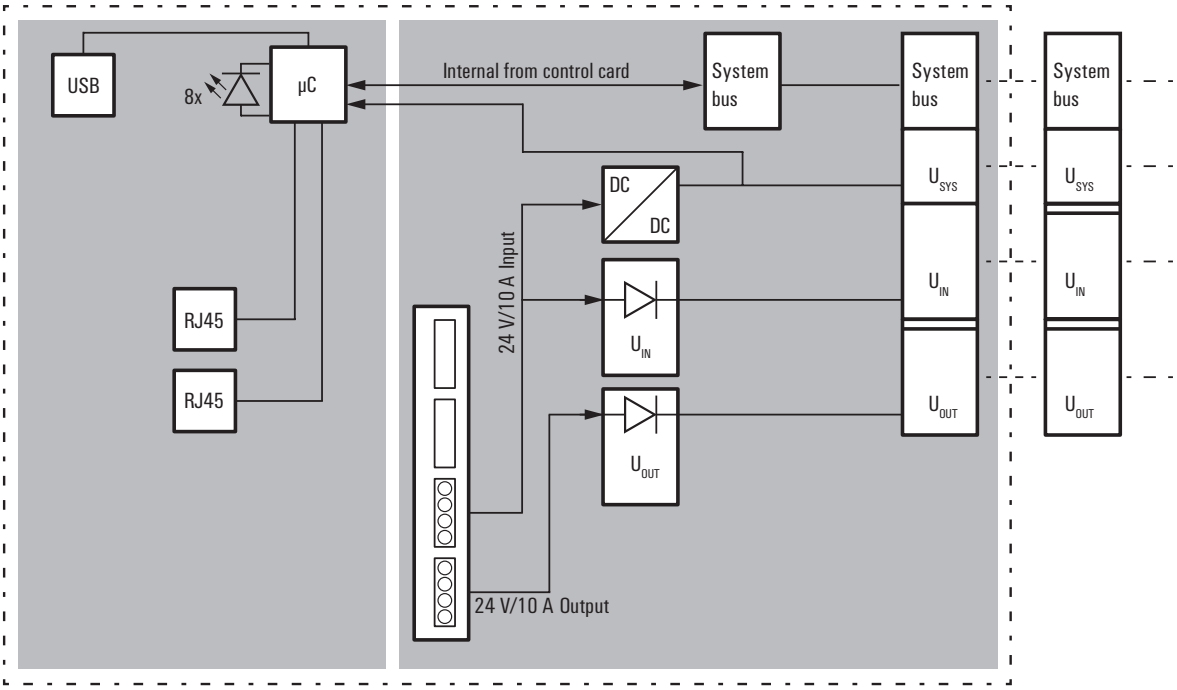
ETHERNET POWERLINK

The POWERLINK fieldbus coupler supports the Industrial Ethernet standard. An integrated web server enables system diagnostics even before the controller is connected. The UR20-FBC-PL fieldbus coupler is a Ethernet POWERLINK Standardization Group (EPSG)-certified Ethernet POWERLINK device. It is the head module for the u-remote system bus, to which up to 64 active u-remote modules can be connected. The POWERLINK coupler has two Ethernet connections, the integrated hub has a supports a line network structure.

The coupler can be activated with a system-independent web server application via the USB service interface or the Ethernet ports. All information, such as diagnoses, status values and parameters, can therefore be read out. All connected inputs can also be simulated or outputs set. The initial system power supply is already integrated in the fieldbus coupler. Power is supplied via two 4-pin connectors, separated into the input and output current paths.

Since the POWERLINK products from Weidmüller make full use of all the latest technological possibilities, such as XDD files and diagnosis messages, they actively support your application in the most important tasks – from engineering and commissioning to fault diagnosis.

Block diagram POWERLINK fieldbus Coupler



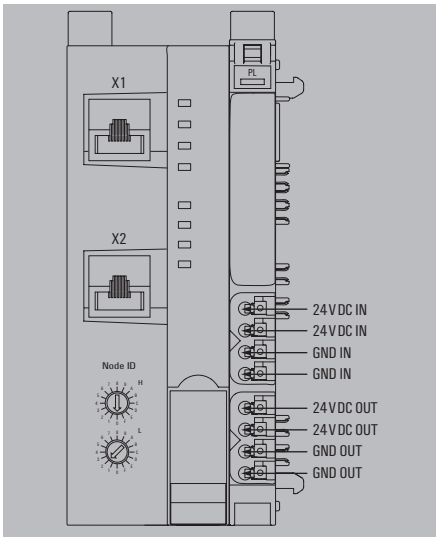
POWERLINK

- 2 x 10 A current path
- Web server
- System supply for 64 I/O modules
- Temperature range: -20... +60 °C
- Address can be set using rotary switch

UR20-FBC-PL

Technical data

System data	
Connection type	2x RJ45 plug-in connectors
Field bus protocol	POWERLINK
Process data	2980 Byte
Parameter data	4 kByte
Diagnostic data	3008 Byte
max. number of modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus, max.	100 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{IN} (input current path) , max.	10 A
Feed current for I_{OUT} (output current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	100 mA
General data	
Weight	224 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	Download of XDD-files on www.weidmueller.com



Ordering data

Module variants	Type	Qty.	Order No.
Field bus coupler, POWERLINK	UR20-FBC-PL	1	1334940000
Note	A termination kit (UR20-EBK-ACC) is included in the coupler package		

Accessories

	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
USB cable (USB A to Micro USB)	IE-USB-A-MICRO-1.8M	1	1487980000
Replacement parts			
Plug-in connector unit	UR20-PK-1334940000-SP	5	2425170000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

CC-Link V2 fieldbus coupler

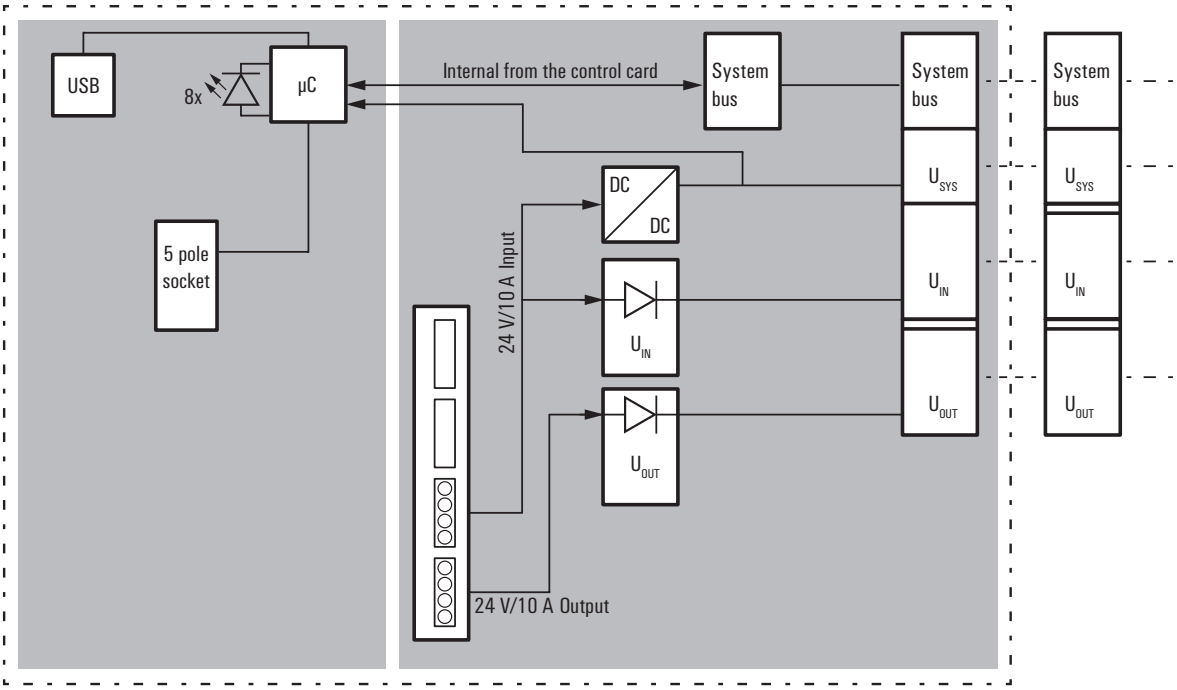
Web server tool, PCB plug-in connector, 10 Mbit/s

CC-Link V2 is an industrial network for automation that can transmit both control data and information at high speed, ensuring efficient, integrated system or process automation.
With options for connecting up to 64 u-remote participants, it serves as the head module for the u-remote system bus. The fieldbus coupler has a 5-pole PCB connector with integrated switch for implementing a line network structure.

The coupler can be activated with a system-independent web server application via the USB service interface. All information, such as diagnoses, status values and parameters, can therefore be read out. All connected inputs can also be simulated or outputs set. The initial system power supply is already integrated in the fieldbus coupler. Power is supplied via two 4-pin connectors, separated into the input and output current paths.

CC-Link products from Weidmüller fully exploit all the possibilities of the technology standard, e.g. the use of CSP files. In this way, they actively support your application in the most important tasks – from engineering and commissioning to fault diagnosis.

Block diagram CC-Link V2 fieldbus coupler



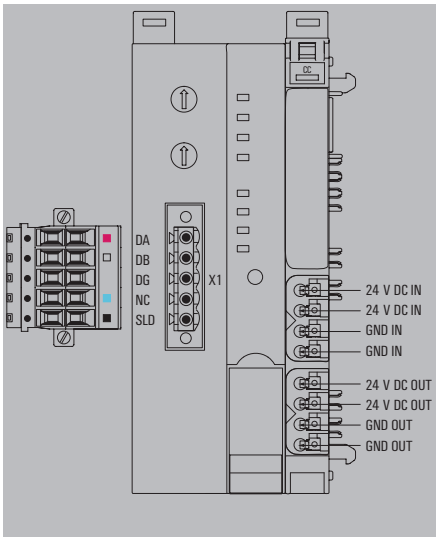
CC-Link V2

- 2 x 10 A current paths
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C
- CC-Link V2 capable

UR20-FBC-CC

Technical data

System data	
Connection type	Socket for 5-pole PCB plug-in connector
Field bus protocol	CC-Link
Process data	512 Byte
Parameter data	4 kByte
Diagnostic data	3008 Byte
max. number of modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus, max.	10 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{IN} (input current path) , max.	10 A
Feed current for I_{OUT} (output current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	85 mA
General data	
Weight	320 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	Download of CSP-file on www.weidmueller.com



Ordering data

Module variants	Type	Qty.	Order No.
Field bus coupler, CC-Link	UR20-FBC-CC	1	2625010000
Note	A termination kit (UR20-EBK-ACC) is included in the coupler package.		

Accessories

	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
USB cable (USB A to Micro USB)	IE-USB-A-MICRO-1.8M	1	1487980000
Replacement parts			
Plug-in connector unit	UR20-PK-2625010000-SP	5	2625060000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

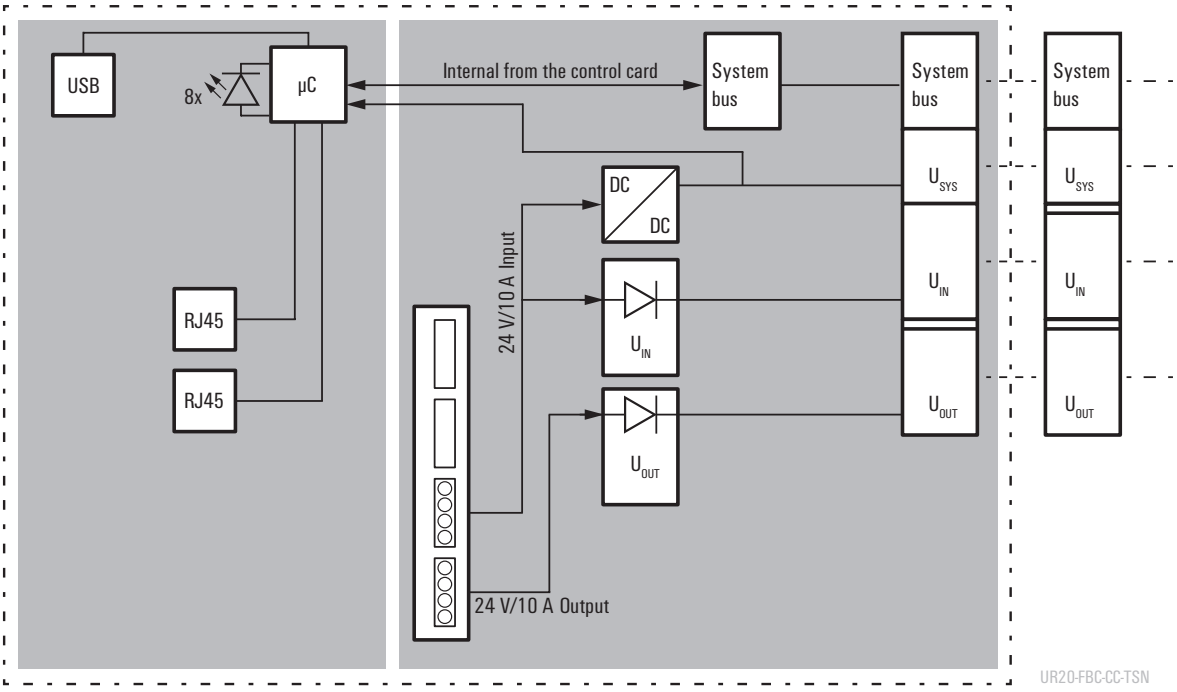
CC-Link IE TSN fieldbus coupler
Web server tool, two RJ45 Ports, 1 Gbit/s

CC-Link IE TSN combines gigabit bandwidth with Time-Sensitive Networking (TSN) standards as an open industrial Ethernet. CC-Link IE TSN is a key technology for the convergence of operational technology (OT) and information technology (IT). It can connect up to 64 u-remote participants and two Ethernet ports with integrated switch to implement a line network structure.

The coupler can be activated with a system-independent web server application via the USB service interface or the Ethernet ports. All information, such as diagnoses, status values and parameters, can therefore be read out. All connected inputs can also be simulated or outputs set. The system's initial power supply is already integrated in the fieldbus coupler. Power is supplied via two 4-pin connectors, separated into the input and output current paths.

CC-Link IE TSN products from Weidmüller fully exploit all the possibilities of the technology standard, e.g. using a CSP file and diagnostic messages. In this way, they actively support your application in the most important tasks – from engineering and commissioning to fault diagnosis.

Block diagram CC-Link IE TSN fieldbus coupler



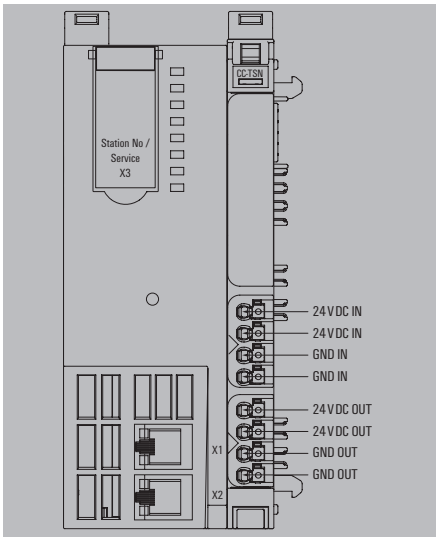
CC-Link IE TSN

- 2 x 10 A current paths
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C
- CC-Link IE TSN capable

UR20-FBC-CC-TSN

Technical data

System data	
Connection type	2x RJ45 plug-in connectors
Field bus protocol	CC-Link IE TSN
Process data	1024 Byte
Parameter data	4 kByte
Diagnostic data	3008 Byte
max. number of modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus, max.	1 Gbit/s
Transmission speed of system bus, max.	48 Mbit/s
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{IN} (input current path) , max.	10 A
Feed current for I_{OUT} (output current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	140 mA
General data	
Weight	210 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	Download of CSP-file on www.weidmueller.com



Ordering data

Module variants	Type	Qty.	Order No.
Field bus coupler, CC-Link IE TSN	UR20-FBC-CC-TSN	1	2680260000
Note	A termination kit (UR20-EBK-ACC) is included in the coupler package.		

Accessories

	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
USB cable (USB A to Micro USB)	IE-USB-A-MICRO-1.8M	1	1487980000
Replacement parts			
Plug-in connector unit	UR20-PK-2680260000-SP	5	2699160000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

IEC 61162-450 fieldbus coupler

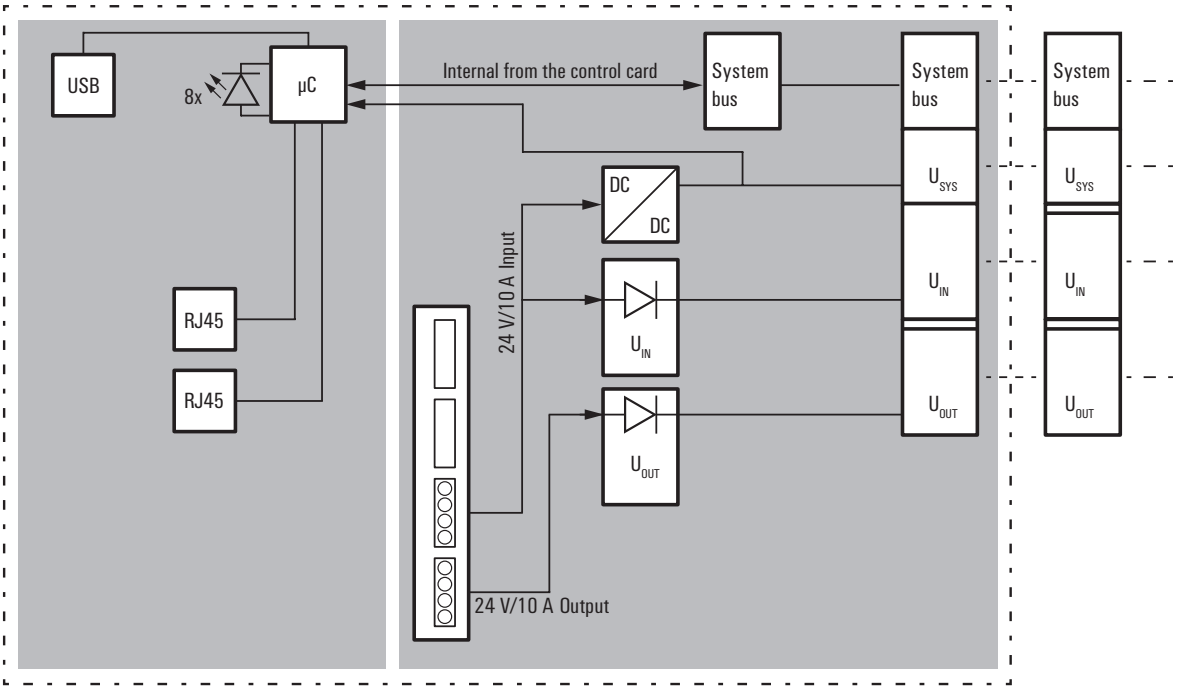
IEC 61162-450

Web server tool, two RJ45 Ports, 100 Mbit/s

IEC 61162-450 specifies physical interface requirements as well as protocols and data formats for high-speed communication on ships, such as for wireless or navigation equipment and other ship systems. The fieldbus coupler can connect up to 64 u-remote participants and two Ethernet ports with integrated switch to implement a line network structure.

The coupler can be activated with a system-independent web server application via the USB service interface or the Ethernet ports. All information, such as diagnoses, status values and parameters, can therefore be read out. All connected inputs can also be simulated or outputs set. The system's initial power supply is already integrated in the fieldbus coupler. Power is supplied via two 4-pin connectors, separated into the input and output current paths.

Block diagram IEC 61162-450 fieldbus coupler



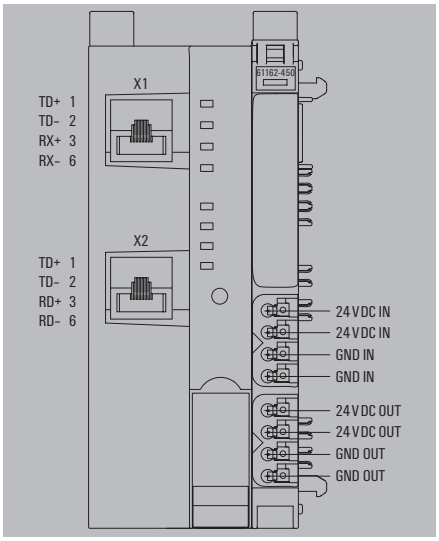
IEC 61162-450

- 2 x 10 A current paths
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C
- SNGF device according IEC 61162-450

UR20-FBC-IEC61162-450

Technical data

System data	
Connection type	2x RJ45 plug-in connectors
Field bus protocol	IEC 61162-450
max. number of modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus, max.	100 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{IN} (input current path) , max.	10 A
Feed current for I_{OUT} (output current path) , max.	10 A
Current consumption I_{IN} (power segment of the field bus coupler), typ.	112 mA
General data	
Weight	314 g
Dimensions H x W x D	120 mm / 52 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Field bus coupler; IEC 61162-450	UR20-FBC-IEC61162-450	1	**2661310000**
Note	A termination kit (UR20-EBK-ACC) is included in the coupler package.		

Accessories

	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swivel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
USB cable (USB A to Micro USB)	IE-USB-A-MICRO-1.8M	1	**1487980000**
Replacement parts			
Plug-in connector unit	UR20-PK-2661310000-SP	5	**2680540000**
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

Digital input modules

P- or N-switching, Reverse polarity protection, up to 3-wire+FE

Digital input modules from Weidmüller are available in different versions and are used primarily to receive binary control signals from sensors, transmitters, switches or proximity switches. Thanks to their flexible design, they will satisfy your need for well coordinated project planning with reserve potential.

All modules are available with 4, 8 or 16 inputs and comply fully with IEC 61131-2. The digital input modules are available as P- or N-switching variant. The digital inputs are for Type 1 and Type 3 sensors in accordance with the standard. With a maximum input frequency of up to 1 kHz, they are used in many different applications. The variant for PLC interface units enables rapid cabling to the proven Weidmüller interface sub-assemblies using system cables. This ensures rapid incorporation into your overall system. Two modules with a timestamp function are able to capture binary signals and to provide a timestamp in 1 µs resolution. Further solutions are possible with the module UR20-4DI-2W-230V-AC which works with accurant current up to 230 V as an input signal.

The module electronics supply the connected sensors from the input current path (U_{IN}).

UR20-4DI-P

UR20-4DI-P-3W

UR20-8DI-P-2W

UR20-8DI-P-3W

UR20-8DI-P-3W-HD

UR20-16DI-P

UR20-16DI-P-PLC-INT

UR20-2DI-P-TS

UR20-4DI-P-TS

UR20-4DI-N

UR20-8DI-N-3W

UR20-16DI-N

UR20-16DI-N-PLC-INT

UR20-4DI-2W-230V-AC

UR20-8DI-ISO-2W

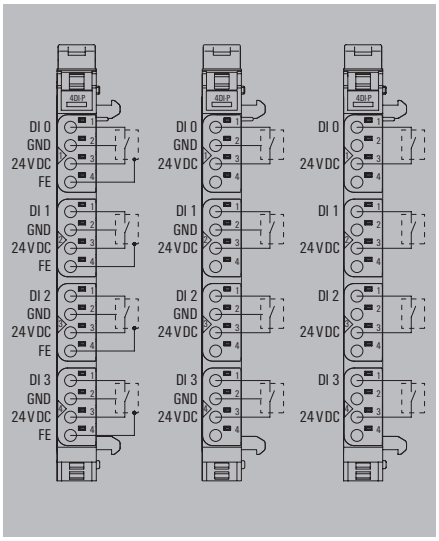
4DI-P

- 4 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- 2-wire, 3-wire, 3-wire+FE connection
- Reverse polarity protection
- Input filter can be set channel by channel
- Integrated sensor supply
- Types 1 and 3 acc. to IEC 61131-2

UR20-4DI-P

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	10 mA + load
Digital inputs	
Number of digital inputs	4
Type	Types 1 and 3, EN 61131-2
Input filter	configurable
Input voltage, low	<5 V
Input voltage, high	> 11 V
Sensor supply	Yes
Sensor connection	2-wire, 3-wire, 3-wire + FE
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
General data	
Weight	87 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Qty.	Order No.
Digital input module, 4 channels	1	1315170000
Note		

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315170000-SP	1	1346640000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315170000-SP	5	1346440000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

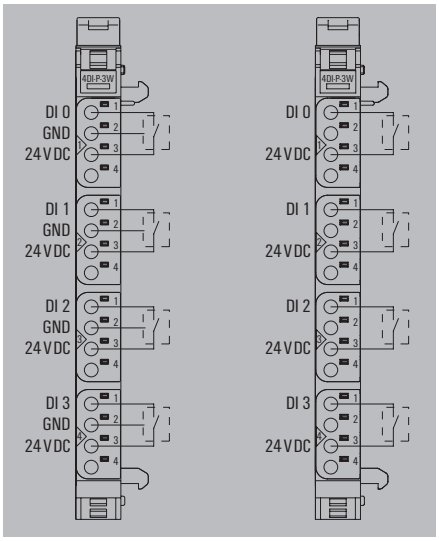
4DI-P-3W

- 4 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- 2-wire and 3-wire connection
- Reverse polarity protection
- Input filter can be set channel by channel
- Integrated sensor supply
- Types 1 and 3 acc. to IEC 61131-2

UR20-4DI-P-3W

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	10 mA + load
Digital inputs	
Number of digital inputs	4
Type	Types 1 and 3, EN 61131-2
Input filter	configurable
Input voltage, low	<5 V
Input voltage, high	> 11 V
Sensor supply	Yes
Sensor connection	2-wire, 3-wire
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
General data	
Weight	85 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital input module, 4 channels, 3-wire	UR20-4DI-P-3W	1	2009360000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-2009360000-SP	1	2011260000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-2009360000-SP	5	2011240000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

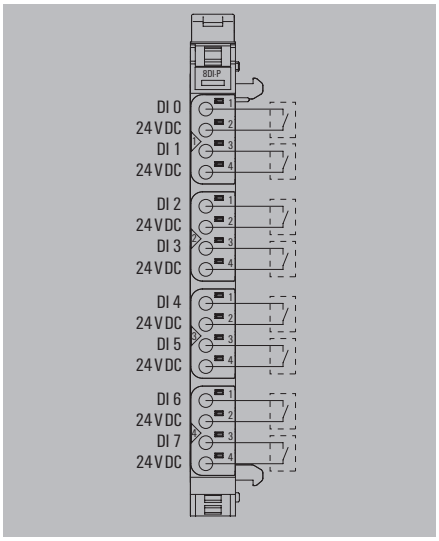
8DI-P-2W

- 8 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- 2-wire connection
- Reverse polarity protection
- Input filter can be set channel by channel
- Types 1 and 3 acc. to IEC 61131-2

UR20-8DI-P-2W

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	
Digital inputs	
Number of digital inputs	8
Type	Types 1 and 3, EN 61131-2
Input filter	configurable
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	Yes
Sensor connection	2-wire
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
General data	
Weight	85 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital input module, 8 channels, 2-wire	UR20-8DI-P-2W	1	1315180000
Note			

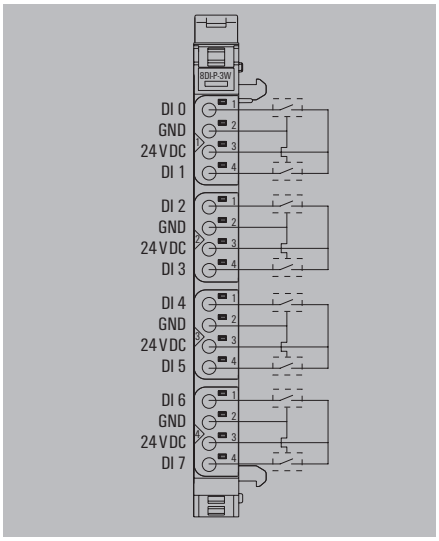
Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315180000-SP	1	1490220000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315180000-SP	5	1346430000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

8DI-P-3W

- 8 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- 2-wire and 3-wire connection
- Reverse polarity protection
- Input filter can be set channel by channel
- Integrated sensor supply
- Types 1 and 3 acc. to IEC 61131-2

UR20-8DI-P-3W



Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	<22 mA + sensor feed
Digital inputs	
Number of digital inputs	8
Type	Types 1 and 3, EN 61131-2
Input filter	configurable
Input voltage, low	<5 V
Input voltage, high	> 11 V
Sensor supply	Yes
Sensor connection	2-wire, 3-wire
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
General data	
Weight	83 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	

Ordering data

Module variants	Type	Qty.	Order No.
Digital input module, 8 channels, 3-wire	UR20-8DI-P-3W	1	1394400000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1394400000-SP	1	1346650000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1394400000-SP	5	1411430000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

8DI-P-3W-HD

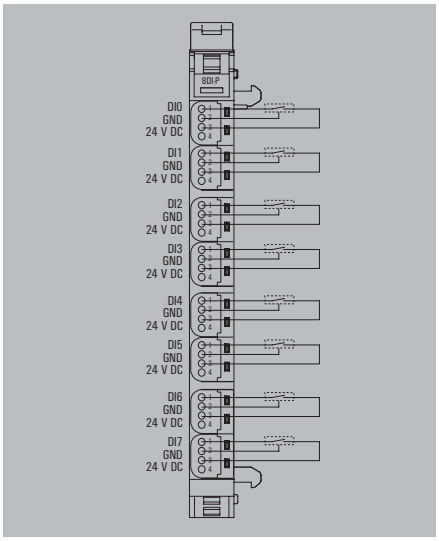
- 8 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- 2-wire and 3-wire connection
- Reverse polarity protection
- Input filter can be set channel by channel
- Integrated sensor supply
- Types 1 and 3 acc. to IEC 61131-2

UR20-8DI-P-3W-HD

Note: Please order connector separately

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	<22 mA + sensor feed
Digital inputs	
Number of digital inputs	8
Type	Types 1 and 3, EN 61131-2
Input filter	configurable
Input voltage, low	<5 V
Input voltage, high	> 11 V
Sensor supply	Yes
Sensor connection	2-wire, 3-wire
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
General data	
Weight	66 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants		
Digital input module, 8 channels, 3-wire, HD plug		
Note		

Type	Qty.	Order No.
UR20-8DI-P-3W-HD	1	1315190000

Accessories

Coding elements	100	1483050000
Termination kit	5	1346610000
Swivel marker	20	1339920000
Module marker for custom printing	100	1341610000
Module marker for neutral	500	1341630000
Thermotransfer version (Material: Polyester)	1	1429910000
Thermotransfer version (material: polyester)	1	1429420000
Paper version for Laserprinter	10	1429430000
Connector and tools		
*3) HD plug	8	1469340000
*4) Stripping tool	1	9202210000
*5) Pressing tool	1	1525820000
Replacement parts		
Electronic module	1	1346670000
Basic module	5	1350930000
Plug-in connector unit	5	1518800000
Note		

Note: please order plug (1469340000) separately.

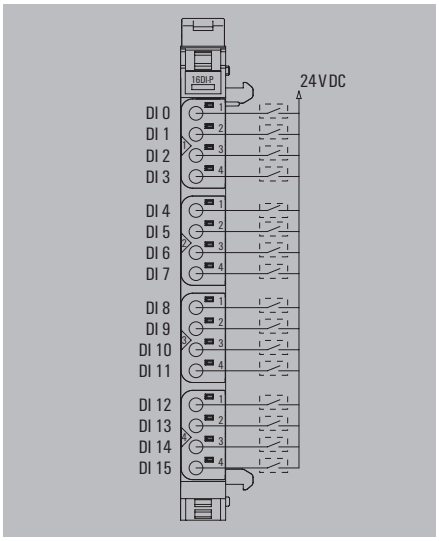
16DI-P

- 16 digital inputs
- Positive switching
- 1-wire connection
- Reverse polarity protection
- Permanently set input filter, 3 ms
- Types 1 and 3 acc. to IEC 61131-2

UR20-16DI-P

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	<25 mA
Digital inputs	
Number of digital inputs	16
Type	Types 1 and 3, EN 61131-2
Input filter	3 ms
Input voltage, low	<5 V
Input voltage, high	> 11 V
Sensor supply	No
Sensor connection	Single-conductor
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
General data	
Weight	44 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital input module, 16 channels	UR20-16DI-P	1	1315200000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315200000-SP	1	1346680000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315200000-SP	5	1346400000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

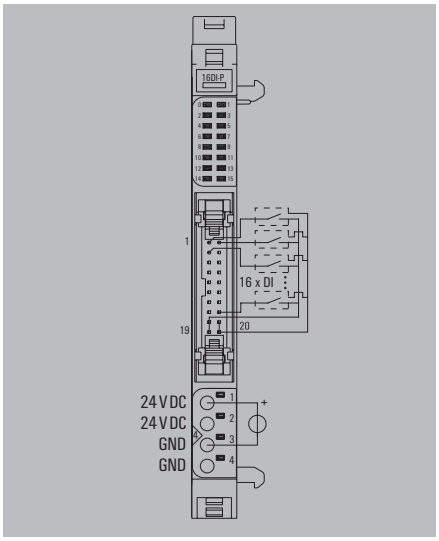
16DI-P-PLC-INT

- 16 digital inputs
- Positive switching
- For connecting a PLC interface element
- Reverse polarity protection
- Permanently set input filter, 3 ms
- Types 1 and 3 acc. to IEC 61131-2

UR20-16DI-P-PLC-INT

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	
Digital inputs	
Number of digital inputs	16
Type	Types 1 and 3, EN 61131-2
Input filter	3 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	external
Sensor connection	PLC-Interface
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
General data	
Weight	85 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital input module, 16 channels, PLC interface	UR20-16DI-P-PLC-INT	1	1315210000
Note			

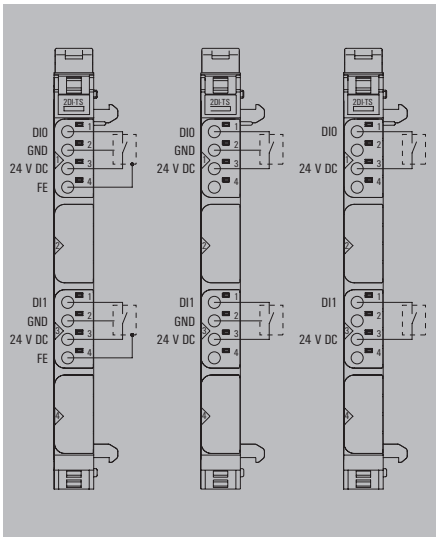
Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Connector and cable			
PLC interface element	RS 16IO 1W H S	1	9445700000
Pre-assembled cable, 1m	PAC-UNIV-HE20-LCH-1M	1	7789306010
Replacement parts			
Electronic module	UR20-EM-1315210000-SP	1	1346690000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315210000-SP	5	1346590000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

2DI-P-TS

- 2 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- 2-wire, 3-wire, 3-wire+FE connection
- 1 µs Timestamp resolution
- Input filter can be set channel by channel
- Types 1 and 3 acc. to IEC 61131-2

UR20-2DI-P-TS



Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	10 mA + load
Digital inputs	
Number of digital inputs	2
Type	Types 1 and 3, EN 61131-2
Input filter	configurable
Input voltage, low	<5 V
Input voltage, high	> 11 V
Sensor supply	Yes
Sensor connection	2-wire, 3-wire, 3-wire + FE
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Time stamp data width	16 Bit
Time stamp resolution	1 µs
General data	
Weight	83 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	

Ordering data

Module variants	Type	Qty.	Order No.
Digital input module, 2 channels, Timestamp	UR20-2DI-P-TS	1	**1460140000**
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	**1483050000**
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swievel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Replacement parts			
Electronic module	UR20-EM-1460140000-SP	1	**1463690000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1460140000-SP	5	**1484110000**
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

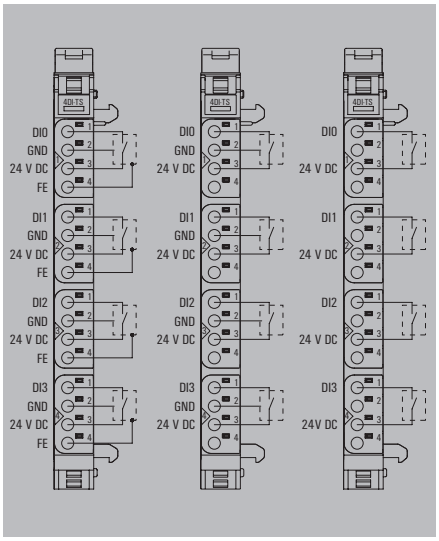
4DI-P-TS

- 4 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- 2-wire, 3-wire, 3-wire+FE connection
- 1 µs Timestamp resolution
- Input filter can be set channel by channel
- Types 1 and 3 acc. to IEC 61131-2

UR20-4DI-P-TS

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	10 mA + load
Digital inputs	
Number of digital inputs	4
Type	Types 1 and 3, EN 61131-2
Input filter	configurable
Input voltage, low	<5 V
Input voltage, high	> 11 V
Sensor supply	Yes
Sensor connection	2-wire, 3-wire, 3-wire + FE
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Time stamp data width	16 Bit
Time stamp resolution	1 µs
General data	
Weight	87 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital input module, 4 channels, Timestamp	UR20-4DI-P-TS	1	1460150000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1460150000-SP	1	1463680000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1460150000-SP	5	1484430000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

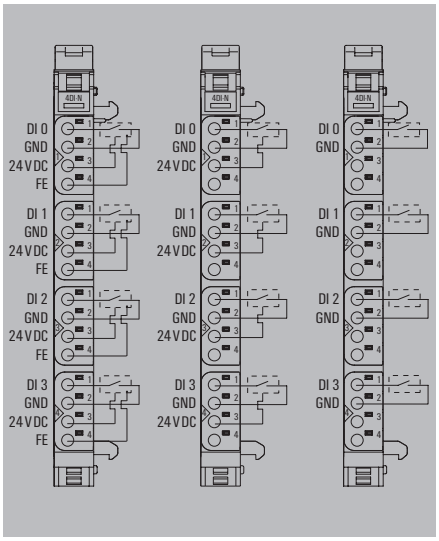
4DI-N

- 4 digital inputs for sensors such as transmitters, switches and proximity sensors
- Negative switching
- 2-wire, 3-wire, 3-wire+FE connection
- Reverse polarity protection
- Input filter can be set channel by channel
- Integrated sonsor supply
- Types 1 and 3 acc. to IEC 61131-2

UR20-4DI-N

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	10 mA + load
Digital inputs	
Number of digital inputs	4
Type	Types 1 and 3, EN 61131-2
Input filter	configurable
Input voltage, low	> - 5 V referred to +24 V of the input power supply U_{IN}
Input voltage, high	<- 11 V referred to +24 V of the input power supply U_{IN}
Sensor supply	Yes
Sensor connection	2-wire, 3-wire, 3-wire + FE
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
General data	
Weight	87 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital input module, 4 channels	UR20-4DI-N	1	1315350000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315350000-SP	1	1346870000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315350000-SP	5	1559770000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

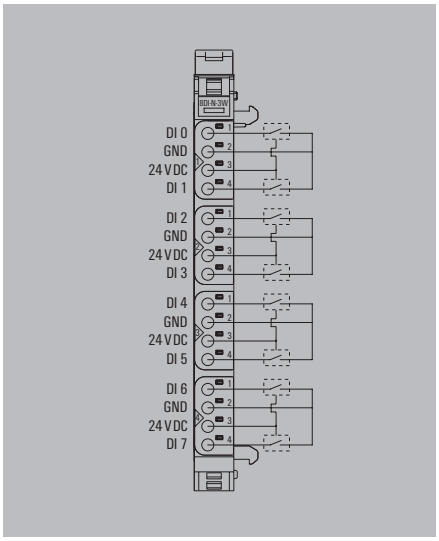
8DI-N-3W

- 8 digital inputs for sensors such as transmitters, switches and proximity sensors
- Negative switching
- 2-wire and 3-wire connection
- Reverse polarity protection
- Input filter can be set channel by channel
- Integrated sonsor supply
- Types 1 and 3 acc. to IEC 61131-2

UR20-8DI-N-3W

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	<20 mA + sensor feed
Digital inputs	
Number of digital inputs	8
Type	Types 1 and 3, EN 61131-2
Input filter	configurable
Input voltage, low	> - 5 V referred to +24 V of the input power supply U_{IN}
Input voltage, high	<- 11 V referred to +24 V of the input power supply U_{IN}
Sensor supply	Yes
Sensor connection	2-wire, 3-wire
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
General data	
Weight	83 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital input module, 8 channels, 3-wire	UR20-8DI-N-3W	1	1315370000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315370000-SP	1	1346880000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315370000-SP	5	1559780000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

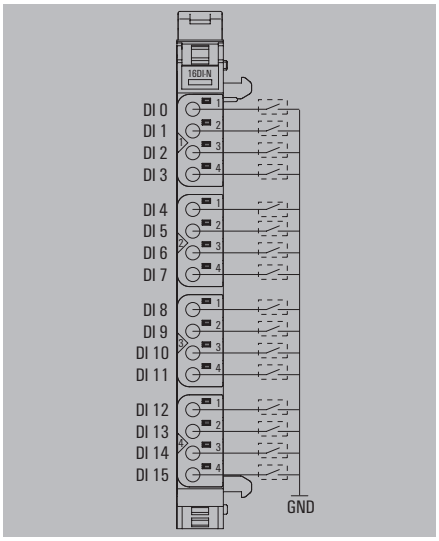
16DI-N

- 16 digital inputs
- Negative switching
- 1-wire connection
- Reverse polarity protection
- Permanently set input filter, 3 ms
- Types 1 and 3 acc. to IEC 61131-2

UR20-16DI-N

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	<15 mA
Digital inputs	
Number of digital inputs	16
Type	Types 1 and 3, EN 61131-2
Input filter	3 ms
Input voltage, low	> - 5 V referred to +24 V of the input power supply U_{IN}
Input voltage, high	<- 11 V referred to +24 V of the input power supply U_{IN}
Sensor supply	No
Sensor connection	Single-conductor
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
General data	
Weight	86 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants		
Digital input module, 16 channels		
Note		

Type	Qty.	Order No.
UR20-16DI-N	1	**1315390000**

Accessories

Coding elements		
Termination kit		
Swivel marker		
Connection marker for pusher custom printing		
Connection marker for pusher neutral		
Module marker for custom printing		
Module marker for neutral		
Thermotransfer version (Material: Polyester)		
Thermotransfer version (material: polyester)		
Paper version for Laserprinter		
Replacement parts		
Electronic module		
Basic module		
Plug-in connector unit		
Note		

Type	Qty.	Order No.
KOSM BHZ5.00	100	**1483050000**
UR20-EBK-ACC	5	**1346610000**
UR20-SM-ACC	20	**1339920000**
PM 2.7/2.6 MC SDR	192	**1323700000**
PM 2.7/2.6 MC NE WS	960	**1323710000**
DEK 5/8-11.5 MC SDR	100	**1341610000**
DEK 5/8-11.5 MC NE WS	500	**1341630000**
THM UR20 GE	1	**1429910000**
THM UR20 WS	1	**1429420000**
ESO UR20 DIN A4 WS	10	**1429430000**
UR20-EM-1315390000-SP	1	**1346920000**
UR20-BM-SP	5	**1350930000**
UR20-PK-1315390000-SP	5	**1559790000**
1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

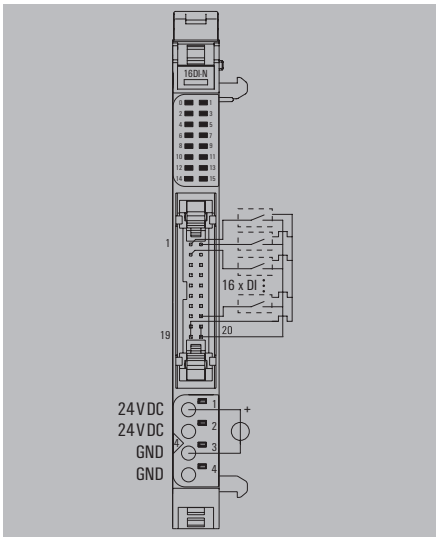
16DI-N-PLC-INT

- 16 digital inputs
- Negative switching
- For connecting a PLC interface element
- Reverse polarity protection
- Permanently set input filter, 3 ms
- Types 1 and 3 acc. to IEC 61131-2

UR20-16DI-N-PLC-INT

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	<15 mA
Digital inputs	
Number of digital inputs	16
Type	Types 1 and 3, EN 61131-2
Input filter	3 ms
Input voltage, low	> - 5 V referred to +24 V of the input power supply U_{IN}
Input voltage, high	<- 11 V referred to +24 V of the input power supply U_{IN}
Sensor supply	external
Sensor connection	PLC-Interface
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
General data	
Weight	82 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital input module, 16 channels, PLC interface	UR20-16DI-N-PLC-INT	1	1315400000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Connector and cable			
PLC interface element	RS 16IO 1W H S	1	9445700000
Pre-assembled cable, 1m	PAC-UNIV-HE20-LCH-1M	1	7789306010
Replacement parts			
Electronic module	UR20-EM-1315400000-SP	1	1346930000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315400000-SP	5	1559800000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

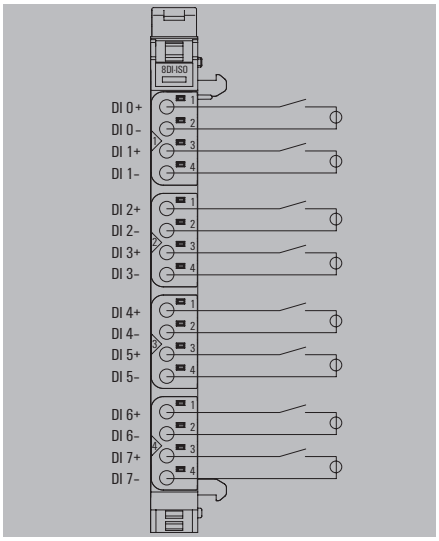
8DI-ISO-2W

- 8 digital inputs for sensors
- Insulation up to 500 V
- 2-wire connection
- Reverse polarity protection
- Types 1 and 3 acc. to IEC 61131-2

UR20-8DI-ISO-2W

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	no
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	No
Digital inputs	
Number of digital inputs	8
Type	Types 1 and 3, EN 61131-2
Input filter	Input delay adjustable from 0 to 40 ms
Input voltage, low	<10 V
Input voltage, high	> 11 V
Sensor supply	No
Sensor connection	2-wire
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Insulation	500 V (channel to channel), 500 V (channel to suppy voltage)
General data	
Weight	85 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital input module, 8 channels, isolated	UR20-8DI-ISO-2W	1	**2457240000**
Note			

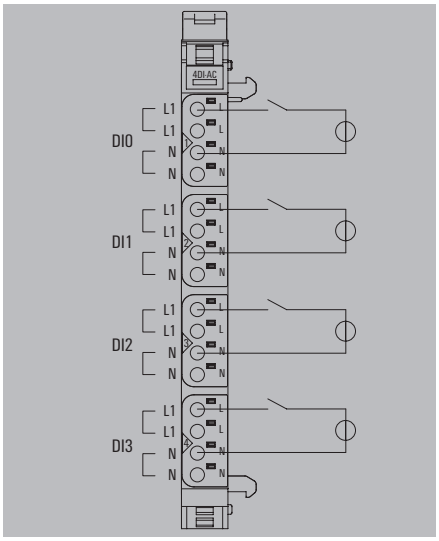
Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	**1483050000**
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swievel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Replacement parts			
Electronic module	UR20-EM-2457240000-SP	1	**2545780000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-2457240000-SP	5	**2545760000**
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

4DI-2W-230V-AC

- 4 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- 2-wire connection
- Input filter can be set channel by channel
- Galvanic isolation by 4 kV
- Types 3 acc. to IEC 61131-2

UR20-4DI-2W-230V-AC



Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Line-to-line voltage	400 V is possible between the channels
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Digital inputs	
Number of digital inputs	4
Type	Types 1 and 3, EN 61131-2
Input filter	configurable, 10 ms
Input voltage, low	< 65 V
Input voltage, high	≥ 80 V
Supply voltage (input)	277 V AC (UL), 265 V AC (VDE)
Input frequency	50 Hz, 60 Hz
Sensor supply	No
Sensor connection	2-wire
Module diagnosis	Yes
Individual channel diagnosis	No
General data	
Weight	89 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	

Ordering data

Module variants	Type	Qty.	Order No.
Digital input module, 4 channels, 230V AC	UR20-4DI-2W-230V-AC	1	1550070000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1550070000-SP	1	1558880000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1550070000-SP	5	1559820000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

Digital output modules

P- or N-switching, short-circuit-proof, up to 3-wire+FE

Digital output modules are available in the following variants: 4DO, 8DO with 2-wire technology, 16DO with or without PLC interface connection. They are used primarily for incorporating decentralised actuators. The digital output modules are available as P- or N-switching variant. All outputs are designed for DC-13 actuators acc. to DIN EN 60947-5-1 and IEC 61131-2 specifications. Just like the digital input modules, frequencies of up to 1 kHz are possible. Maximum system safety is ensured by protecting the outputs. This consists of an automatic restart following a short-circuit. Clearly recognisable LEDs also signal the status of the entire module as well as individual channels.

In addition to the standard applications of the digital output modules, the portfolio also includes special variants, such as the 4RO-SSR module for rapidly switching applications. Fitted with solid state technology, 0.5 A is available for each output. Furthermore, there is also the 4RO-CO relay module for power-intensive applications. This is equipped with four change-over contacts, optimised for a switching voltage of 277 V AC and designed for a switching current of 6 A.
To serve negative switching requirements there is a parameterisable version of the 4DO modules.

The module electronics supply the connected actuators from the output current path (U_{OUT}).

UR20-4DO-P

UR20-4DO-P-2A

UR20-4DO-PN-2A

UR20-8DO-P

UR20-8DO-P-2W-HD

UR20-16DO-P

UR20-16DO-P-PLC-INT

UR20-4DO-N

UR20-4DO-N-2A

UR20-8DO-N

UR20-16DO-N

UR20-16DO-N-PLC-INT

UR20-4DO-ISO-4A

UR20-4RO-SSR-255

UR20-4RO-CO-255

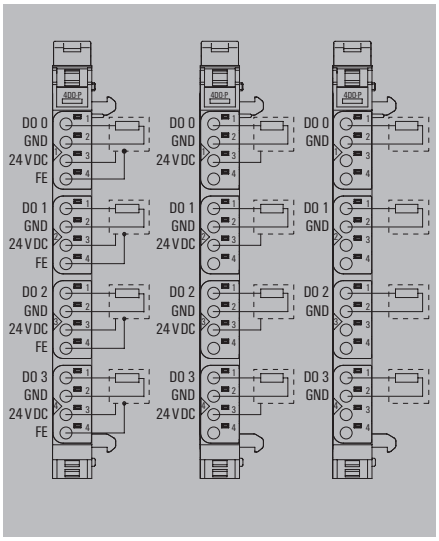
4DO-P

- 4 digital outputs
- Positive switching
- 2-wire, 3-wire, 3-wire+FE connection
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- DC-13 load
- IEC 61131-2 compliant

UR20-4DO-P

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	10 mA + load
Digital outputs	
Number of digital outputs	4
Type	Lamp load, Ohmic, Inductive
Max. response time, high	100 µs
Max. response time, low	250 µs
Output current per channel, max.	500 mA
Output current per module, max.	2000 mA
Switching frequenz max. Resistive load (min. 47 Ω)	1 kHz
Switching frequenz max. Inductive load (DC13)	0.2 Hz
Switching frequenz max. Lamp load (12 W)	1 kHz
Actuator connection	2-wire, 3-wire, 3-wire + FE
Short-circuit-proof	Yes (thermal cut-out)
Feedback-free	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Switch-off energy (inductive)	<150 mJ / channel
Response time of the protective circuit (current limiting)	<100µs
General data	
Weight	86 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, 4 channels	UR20-4DO-P	1	1315220000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315220000-SP	1	1346700000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315220000-SP	5	1483960000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

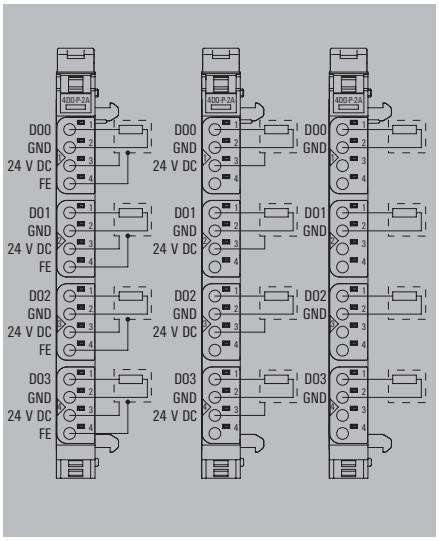
4DO-P-2A

- 4 digital outputs
- Positive switching
- Can be loaded up to 2 A per channel
- 2-wire, 3-wire, 3-wire+FE connection
- Module can be loaded up to 8 A
- Short-circuit-proof
- DC-13 load
- IEC 61131-2 compliant

UR20-4DO-P-2A

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	10 mA + load
Digital outputs	
Number of digital outputs	4
Type	Lamp load, Ohmic, Inductive
Max. response time, high	100 µs
Max. response time, low	250 µs
Output current per channel, max.	2000 mA
Output current per module, max.	8000 mA
Switching frequenz max. Resistive load (min. 47 Ω)	1 kHz
Switching frequenz max. Inductive load (DC13)	0.2 Hz
Switching frequenz max. Lamp load (12 W)	1 kHz
Actuator connection	2-wire, 3-wire, 3-wire + FE
Short-circuit-proof	Yes (thermal cut-out)
Feedback-free	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Switch-off energy (inductive)	< 150 mJ / channel
Response time of the protective circuit (current limiting)	< 100µs
General data	
Weight	85 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, 4 channels, 2 A	UR20-4DO-P-2A	1	1315230000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315230000-SP	1	1346710000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315230000-SP	5	1483970000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

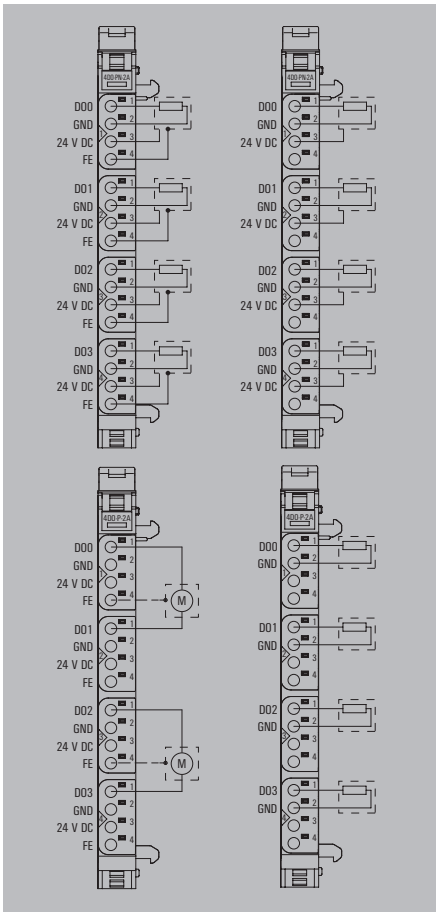
4DO-PN-2A

- 4 digital outputs
- Positive or negative switching
- Can be loaded up to 2 A per channel
- 2-wire, 3-wire, 3-wire+FE connection
- Module can be loaded up to 8 A
- Short-circuit-proof
- IEC 61131-2 compliant

UR20-4DO-PN-2A

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	10 mA + load
Digital outputs	
Number of digital outputs	4
Positive or negative switching	Positive or negative switching
Type	Inductive, Ohmic, Lamp load
Max. response time, high	100 µs
Max. response time, low	250 µs
Output current per channel, max.	2 A
Output current per module, max.	8000 mA
Switching frequenz max. Resistive load (min. 47 Ω)	1 kHz
Switching frequenz max. Inductive load (DC13)	2 Hz
Switching frequenz max. Lamp load (12 W)	1 kHz
Actuator connection	2-wire, 3-wire, 3-wire + FE
Short-circuit-proof	Yes (thermal cut-out)
Feedback-free	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Switch-off energy (inductive)	< 150 mJ / channel
Response time of the protective circuit (current limiting)	< 100µs
General data	
Weight	85 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, 4 channels	UR20-4DO-PN-2A	1	1394420000
Note			

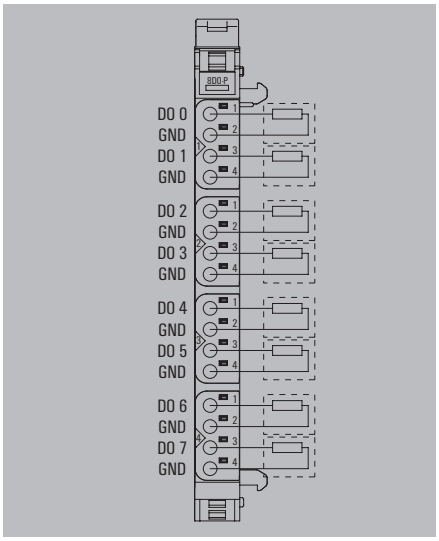
Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1394420000-SP	1	1480950000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1394420000-SP	5	1483980000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

8DO-P

- 8 digital outputs
- Positive switching
- Can be loaded up to 0.5 A per channel
- 2-wire connection
- Short-circuit-proof
- DC-13 load
- IEC 61131-2 compliant

UR20-8DO-P



Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	15 mA + load
Digital outputs	
Number of digital outputs	8
Type	Lamp load, Ohmic, Inductive
Max. response time, high	100 µs
Max. response time, low	250 µs
Output current per channel, max.	500 mA
Output current per module, max.	4000 mA
Switching frequenz max. Resistive load (min. 47 Ω)	1 kHz
Switching frequenz max. Inductive load (DC13)	0.2 Hz
Switching frequenz max. Lamp load (12 W)	1 kHz
Actuator connection	2-wire
Short-circuit-proof	Yes (thermal cut-out)
Feedback-free	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Switch-off energy (inductive)	< 150 mJ / channel
Response time of the protective circuit (current limiting)	< 100µs
General data	
Weight	87 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	

Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, 8 channels	UR20-8DO-P	1	1315240000
Note	For this and additional technical data, please refer to the manual available at www.weidmueller.de.		

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315240000-SP	1	1346720000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315240000-SP	5	1346410000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

8DO-P-2W-HD

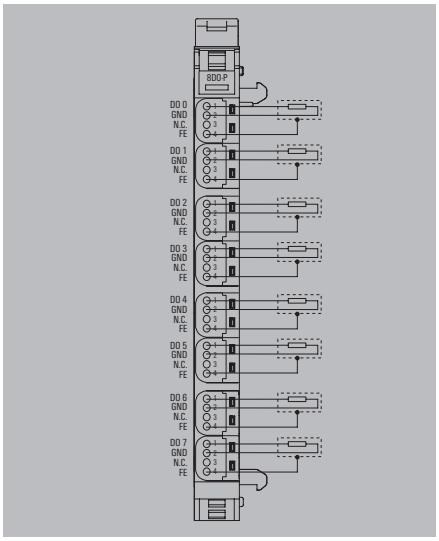
- 8 digital outputs
- Positive switching
- Can be loaded up to 0.5 A per channel
- 2-wire connection
- Short-circuit-proof
- DC-13 load
- IEC 61131-2 compliant

UR20-8DO-P-2W-HD

Note: Please order connector separately

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	40 mA
Digital outputs	
Number of digital outputs	8
Type	Lamp load, Ohmic, Inductive
Max. response time, high	50 µs
Max. response time, low	100 µs
Output current per channel, max.	500 mA
Output current per module, max.	4000 mA
Switching frequenz max. Resistive load (min. 47 Ω)	1 kHz
Switching frequenz max. Inductive load (DC13)	0.2 Hz
Switching frequenz max. Lamp load (12 W)	1 kHz
Actuator connection	2-wire
Short-circuit-proof	Yes (thermal cut-out)
Feedback-free	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Switch-off energy (inductive)	< 150 mJ / channel
Response time of the protective circuit (current limiting)	< 100µs
General data	
Weight	66 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Qty.	Order No.
Digital output module, 8 channels, HD-plug	1	**1509830000**
Note		

Accessories

Type	Qty.	Order No.
Coding elements	100	**1483050000**
Termination kit	5	**1346610000**
Swievel marker	20	**1339920000**
Module marker for custom printing	100	**1341610000**
Module marker for neutral	500	**1341630000**
Thermotransfer version (Material: Polyester)	1	**1429910000**
Thermotransfer version (material: polyester)	1	**1429420000**
Paper version for Laserprinter	10	**1429430000**
Connector and tools		
*3) HD plug	8	**1469340000**
*4) Stripping tool	1	**9202210000**
*5) Pressing tool	1	**1525820000**
Replacement parts		
Electronic module	1	**1515450000**
Basic module	5	**1350930000**
Plug-in connector unit	5	**1559720000**
Note	Note: please order plug (1469340000) separately.	

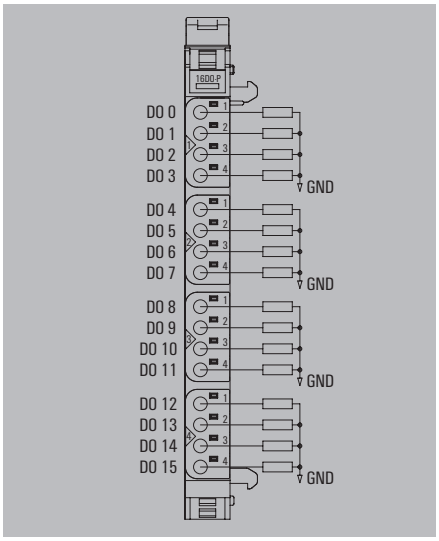
16DO-P

- 16 digital outputs
- Positive switching
- 1-wire connection
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- DC-13 load
- IEC 61131-2 compliant

UR20-16DO-P

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	20 mA + load
Digital outputs	
Number of digital outputs	16
Type	Lamp load, Ohmic, Inductive
Max. response time, high	100 µs
Max. response time, low	250 µs
Output current per channel, max.	500 mA
Output current per module, max.	8000 mA
Switching frequenz max. Resistive load (min. 47 Ω)	1 kHz
Switching frequenz max. Inductive load (DC13)	0.2 Hz
Switching frequenz max. Lamp load (12 W)	1 kHz
Actuator connection	Single-conductor
Short-circuit-proof	Yes (thermal cut-out)
Feedback-free	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Switch-off energy (inductive)	<150 mJ / channel
Response time of the protective circuit (current limiting)	<100µs
General data	
Weight	83 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, 16 channels	UR20-16DO-P	1	1315250000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315250000-SP	1	1346730000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315250000-SP	5	1483990000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

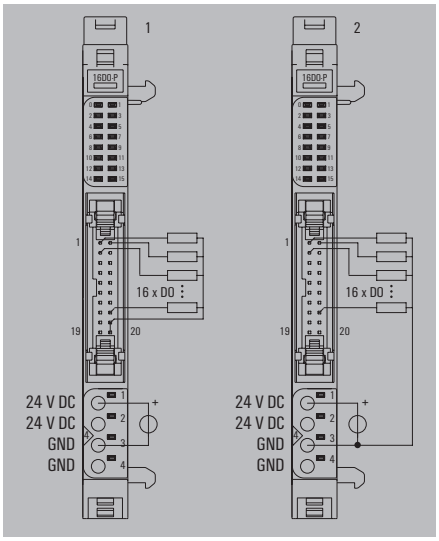
16DO-P-PLC-INT

- 16 digital outputs
- Positive switching
- For connecting a PLC interface element
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- DC-13 load
- IEC 61131-2 compliant

UR20-16DO-P-PLC-INT

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	20 mA + load
Digital outputs	
Number of digital outputs	16
Type	Lamp load, Ohmic, Inductive
Max. response time, high	100 µs
Max. response time, low	250 µs
Output current per channel, max.	500 mA
Output current per module, max.	8000 mA
Switching frequenz max. Resistive load (min. 47 Ω)	1 kHz
Switching frequenz max. Inductive load (DC13)	0.2 Hz
Switching frequenz max. Lamp load (12 W)	1 kHz
Actuator connection	PLC-Interface
Short-circuit-proof	Yes (thermal cut-out)
Feedback-free	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Switch-off energy (inductive)	< 150 mJ / channel
Response time of the protective circuit (current limiting)	< 100µs
General data	
Weight	85 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	In case of supply via the ribbon cable, the maximum output current per module is 2 A.



Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, 16 channels, PLC interface	UR20-16DO-P-PLC-INT	1	1315270000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Connector and cable			
PLC interface element	RS 16IO 1W H S	1	9445700000
Pre-assembled cable, 1m	PAC-UNIV-HE20-LCH-1M	1	7789306010
Replacement parts			
Electronic module	UR20-EM-1315270000-SP	1	1346740000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315270000-SP	5	1483940000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

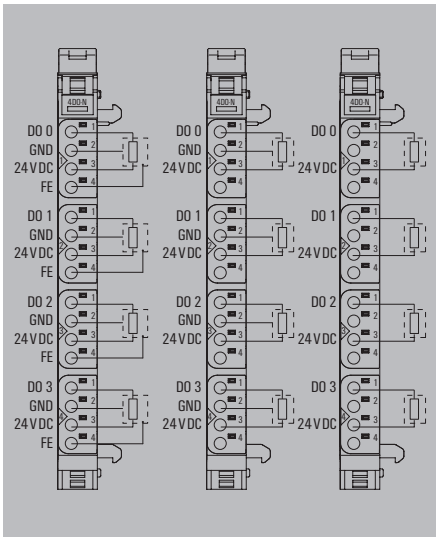
4DO-N

- 4 digital outputs
- Negative switching
- 2-wire, 3-wire, 3-wire+FE connection
- DC-13 load
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- IEC 61131-2 compliant

UR20-4DO-N

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	10 mA + load
Digital outputs	
Number of digital outputs	4
Type	Lamp load, Ohmic, Inductive
Max. response time, high	100 µs
Max. response time, low	250 µs
Output current per channel, max.	500 mA
Output current per module, max.	2000 mA
Switching frequenz max. Resistive load (min. 47 Ω)	1 kHz
Switching frequenz max. Inductive load (DC13)	2 Hz
Switching frequenz max. Lamp load (12 W)	10 Hz
Actuator connection	2-wire, 3-wire, 3-wire + FE
Short-circuit-proof	Yes
Feedback-free	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Switch-off energy (inductive)	< 150 mJ / channel
Response time of the protective circuit (current limiting)	< 100µs
General data	
Weight	85 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, 4 channels	UR20-4DO-N	1	1315410000
Note			

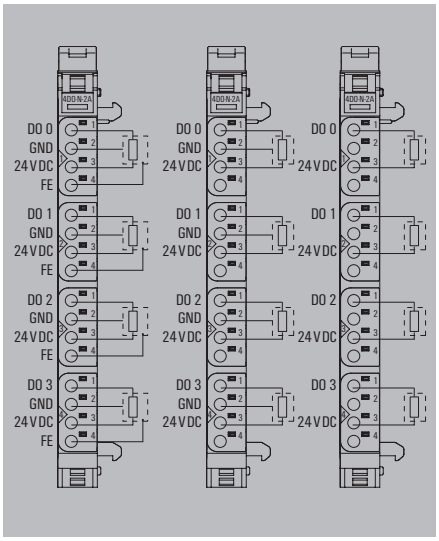
Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315410000-SP	1	1346940000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315410000-SP	5	1559840000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

4DO-N-2A

- 4 digital outputs
- Negative switching
- 2-wire, 3-wire, 3-wire+FE connection
- Module can be loaded up to 8 A
- Can be loaded up to 2 A per channel
- Short-circuit-proof
- DC-13 load
- IEC 61131-2 compliant

UR20-4DO-N-2A



Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	10 mA + load
Digital outputs	
Number of digital outputs	4
Type	Lamp load, Ohmic, Inductive
Max. response time, high	100 µs
Max. response time, low	250 µs
Output current per channel, max.	2000 mA
Output current per module, max.	8000 mA
Switching frequenz max. Resistive load (min. 47 Ω)	1 kHz
Switching frequenz max. Inductive load (DC13)	2 Hz
Switching frequenz max. Lamp load (12 W)	10 Hz
Actuator connection	2-wire, 3-wire, 3-wire + FE
Short-circuit-proof	Yes
Feedback-free	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Switch-off energy (inductive)	< 150 mJ / channel
Response time of the protective circuit (current limiting)	< 100µs
General data	
Weight	87 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	

Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, 4 channels, 2 A	UR20-4DO-N-2A	1	1315420000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315420000-SP	1	1346950000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315420000-SP	5	1559850000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

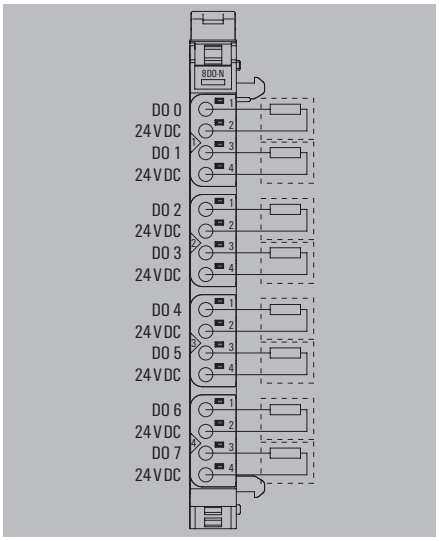
8DO-N

- 8 digital outputs
- Negative switching
- Can be loaded up to 0.5 A per channel
- 2-wire connection
- Short-circuit-proof
- DC-13 load
- IEC 61131-2 compliant

UR20-8DO-N

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	15 mA + load
Digital outputs	
Number of digital outputs	8
Type	Lamp load, Ohmic, Inductive
Max. response time, high	100 µs
Max. response time, low	250 µs
Output current per channel, max.	500 mA
Output current per module, max.	4000 mA
Switching frequenz max. Resistive load (min. 47 Ω)	1 kHz
Switching frequenz max. Inductive load (DC13)	2 Hz
Switching frequenz max. Lamp load (12 W)	10 Hz
Actuator connection	2-wire
Short-circuit-proof	Yes
Feedback-free	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Switch-off energy (inductive)	< 150 mJ / channel
Response time of the protective circuit (current limiting)	< 100µs
General data	
Weight	86.4 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, 8 channels	UR20-8DO-N	1	1315430000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315430000-SP	1	1346970000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315430000-SP	5	1984770000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

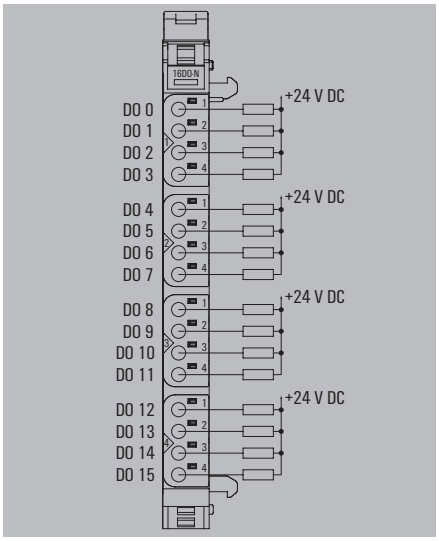
16DO-N

- 16 digital outputs
- Negative switching
- 1-wire connection
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- DC-13 load
- IEC 61131-2 compliant

UR20-16DO-N

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	30 mA + load
Digital outputs	
Number of digital outputs	16
Type	Lamp load, Ohmic, Inductive
Max. response time, high	100 µs
Max. response time, low	250 µs
Output current per channel, max.	500 mA
Output current per module, max.	8000 mA
Switching frequenz max. Resistive load (min. 47 Ω)	1 kHz
Switching frequenz max. Inductive load (DC13)	0.2 Hz
Switching frequenz max. Lamp load (12 W)	10 Hz
Actuator connection	Single-conductor
Short-circuit-proof	Yes (thermal cut-out)
Feedback-free	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Switch-off energy (inductive)	<150 mJ / channel
Response time of the protective circuit (current limiting)	<100µs
General data	
Weight	87 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, 16 channels	UR20-16DO-N	1	1315440000
Note			

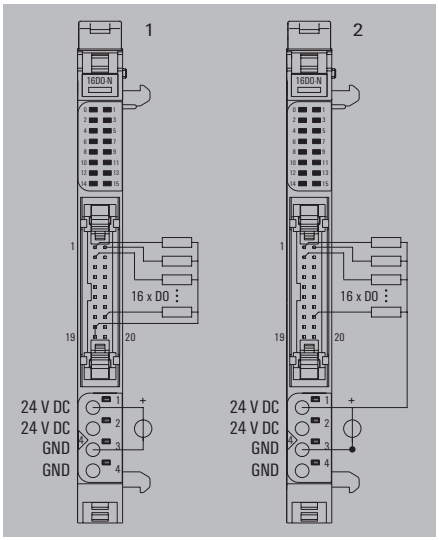
Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315440000-SP	1	1346980000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315440000-SP	5	2000520000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

16DO-N-PLC-INT

- 16 digital outputs
- Negative switching
- For connecting a PLC interface element
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- DC-13 load
- IEC 61131-2 compliant

UR20-16DO-N-PLC-INT



Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	30 mA
Digital outputs	
Number of digital outputs	16
Type	Lamp load, Ohmic, Inductive
Max. response time, high	100 µs
Max. response time, low	250 µs
Output current per channel, max.	500 mA
Output current per module, max.	8000 mA
Switching frequenz max. Resistive load (min. 47 Ω)	1 kHz
Switching frequenz max. Inductive load (DC13)	0.2 Hz
Switching frequenz max. Lamp load (12 W)	10 Hz
Actuator connection	PLC-Interface
Short-circuit-proof	Yes (thermal cut-out)
Feedback-free	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Switch-off energy (inductive)	<150 mJ / channel
Response time of the protective circuit (current limiting)	<100µs
General data	
Weight	87 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	

Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, 16 channels, PLC interface	UR20-16DO-N-PLC-INT	1	1315450000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Connector and cable			
PLC interface element	RS 16IO 1W H S	1	9445700000
Pre-assembled cable, 1m	PAC-UNIV-HE20-LCH-1M	1	7789306010
Replacement parts			
Electronic module	UR20-EM-1315450000-SP	1	1346990000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315450000-SP	5	2000540000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

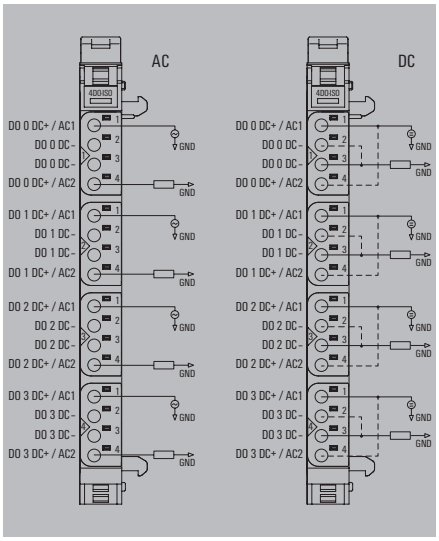
4DO-ISO-4A

- 4 digital outputs
- Insulation up to 500 V between the channels
- Can be loaded up to 4 A per channel
- 2-wire connection
- Short-circuit-proof
- IEC 61131-2 compliant

UR20-4DO-ISO-4A

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	30 mA
Digital outputs	
Number of digital outputs	4
Type	Lamp load, Ohmic, Inductive
Max. response time, high	250 µs
Max. response time, low	250 µs
Output current per channel, max.	4 A
Output current per module, max.	10 A
Switching frequenz max. Resistive load (min. 47 Ω)	1 kHz
Switching frequenz max. Inductive load (DC13)	0.2 Hz
Switching frequenz max. Lamp load (12 W)	10 Hz
Actuator connection	2-wire
Short-circuit-proof	Yes
Feedback-free	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Switch-off energy (inductive)	<150 mJ / channel
Response time of the protective circuit (current limiting)	<100µs
General data	
Weight	91 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, 4 channels, isolated	UR20-4DO-ISO-4A	1	2457250000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-2457250000-SP	1	2545790000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-2457250000-SP	5	2545770000
Note			

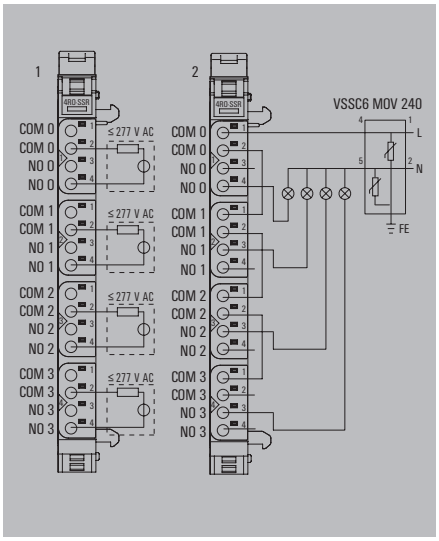
4RO-SSR-255

- 4 digital outputs
- Can be loaded up to 1 A per channel
- Solid state relay

UR20-4RO-SSR-255

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	<15 mA
Digital outputs	
Number	4
Type	SSR / Triac
Max. response time, high	10 ms
Max. response time, low	10 ms
Output current per channel, max.	1 A
Output current per module, max.	4 A
Max. switching frequency	20 Hz
Short-circuit-proof	No
Feedback-free	Yes
Switching voltage, max.	255 V AC,UL: 277 V AC
Module diagnosis	Yes
Individual channel diagnosis	No
General data	
Weight	47 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, 4 channels, SSR	UR20-4RO-SSR-255	1	1315540000
Note			

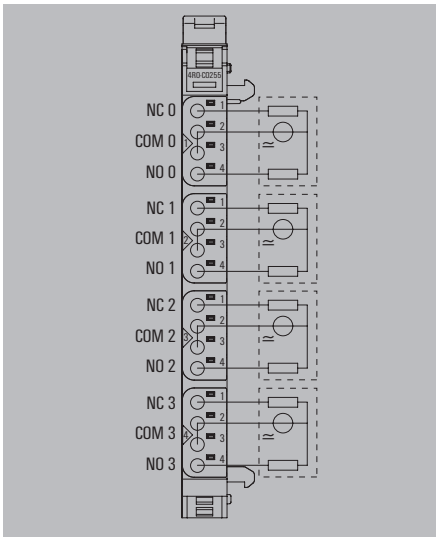
Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315540000-SP	1	1347120000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315540000-SP	5	1484000000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

4RO-CO-255

- 4 digital outputs
- Can be loaded up to 6 A per channel
- Relay output, change-over contact
- Switching voltage 277 V AC/DC

UR20-4RO-CO-255



Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	< 15 mA
Digital outputs	
Number	4
Type	CO contact
Max. response time, high	20 ms
Max. response time, low	20 ms
Output current per channel, max.	6 A
Output current per module, max.	24 A
Max. switching frequency	5 Hz
Short-circuit-proof	No
Feedback-free	Yes
Switching voltage, max.	255 V AC, UL: 277 V AC, DC
Module diagnosis	Yes
Individual channel diagnosis	No
General data	
Weight	119 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	Note temperature derating!

Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, 4 channels, relay	UR20-4RO-CO-255	1	**1315550000**
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	**1483050000**
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swievel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Replacement parts			
Electronic module	UR20-EM-1315550000-SP	1	**1347130000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315550000-SP	5	**1346500000**
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

Digital input and output modules
8 universally switchable digital inputs/outputs

The automation of machines and plants is usually planned in great detail. The aim is to ensure smooth commissioning and error-free operation. If unexpected changes nevertheless occur, a flexible automation infrastructure is a great advantage.

u-remote UR20-8DIO-P-3W-DIAG is a universally applicable digital I/O module in which each individual channel can be parameterised independently as an input or output. Sensors and actuators can be connected to the same module, which reduces the number of modules per I/O station.

In addition, subsequent changes to the system can be made by reconfiguring the system. Adjustable individual channel diagnoses for inputs and outputs increase the transparency of the device or system status.

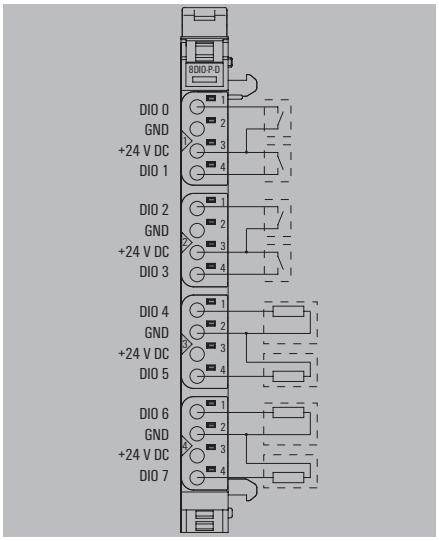
The digital input or output module provides 8 channels, each of which can be configured as an input or output. Up to 2 sensors or actuators can be connected to each plug-in connector in 2-wire or 3-wire connection. The inputs are designed as type 1 and 3 according to IEC 61131-2. The sensor supply is limited to 0.3 A per connecting plug and is equipped with an individual channel diagnosis.
For the outputs, the individual channel diagnosis monitors switched-on outputs for overload and switched-off outputs for load (line break detection). The short-circuit-proof outputs have a max. output current of 0.5 A at 24 V DC.

UR20-8DIO-P-3W-DIAG

8DIO-P-3W-DIAG

- 8 digital inputs and 8 digital outputs
- 2-wire, 3-wire connection
- Overcurrent monitoring and electronic protection
- Overload monitoring
- Line break detection

UR20-8DIO-P-3W-DIAG



Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	32 mA + I-Last
Digital inputs	
Number of digital inputs	8
Input type	P-switching, for Type 1 and Type 3 sensors as per IEC 61131-2
Input filter	Input delay adjustable from 0 to 40 ms
Input voltage, low	< + 5 V referred to 0 V of the output power supply U_{OUT}
Input voltage, high	> + 11 V referred to 0 V of the output power supply U_{OUT}
Sensor supply	≥ 0.3 A per connector, limited electronically
Sensor connection	2-wire, 3-wire
Reverse polarity protection	No, Input voltage below -10 V can destroy the module
Module diagnosis	Yes
Individual channel diagnosis	only auxiliary voltage output
Digital outputs	
Number of digital outputs	8
Type	PNP switched
Output current per channel, max.	0.5 A
Output current per module, max.	4 A
Switching frequenz max. Resistive load (min. 47 Ω)	1 kHz
Switching frequenz max. Inductive load (DC13)	0.2 Hz
Switching frequenz max. Lamp load (12 W)	10 Hz
Actuator connection	2-wire, 3-wire
Short-circuit-proof / Feedback-free	Yes / Yes
Individual channel diagnosis	Yes, Overcurrent monitoring > 0.5 A, line break detection
Switch-off energy (inductive)	< 150 mJ / channel
Response time of the protective circuit (current limiting)	< 100µs
General data	
Weight	83 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	

Ordering data

Module variants	Type	Qty.	Order No.
Digital input and output module, 8 channels	UR20-8DIO-P-3W-DIAG	1	2456530000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-2456530000-SP	1	2593330000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-2456530000-SP	5	2593320000
Note			

Pulse width modulation and stepper motor modules

As part of the u-remote system, Weidmüller offers a specialised solution for controlling small motors with a current requirement of 0.5 A to 2 A, which can also be used to control valve flaps. The pulse width modulation modules can be adjusted within the switching frequencies up to 40 kHz and the modules can also be switched in the motor control with the aid of push/pull output stages, e.g. to change the direction of rotation.

Weidmüller's stepper motor module is efficient and flexible for use in the automation of robots, handling systems or placement machines with stepper motors. Variably adjustable operating parameters as well as a wide range supply from 12 V DC to 50 V DC make the module flexibly applicable for various target applications. Six integrated, parameterisable encoder or digital inputs and two digital outputs with 0.5 A make the control module a complete solution in the smallest of spaces.

The module electronics supplies the connected actuators from the output current path (U_{OUT}).

UR20-2PWM-PN-0.5A -V2

UR20-2PWM-PN-2A -V2

UR20-2PWM-I-2.5A-2DI-P

UR20-1SM-50W-6DI2DO-P

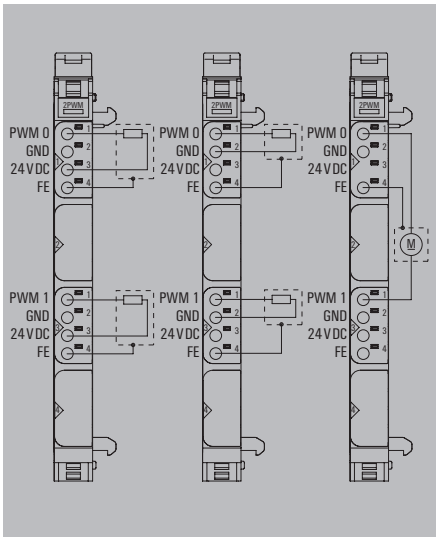
2PWM-PN-0.5A

- 2 pulse width modulation module outputs
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- Push/pull output
- Maximum 40 kHz output frequency (adjustable)

UR20-2PWM-PN-0.5A-V2

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	192 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	40 mA
Digital outputs	
Number of digital outputs	2
Type	DO PWM push / pull
Resolution	32 Bit
Accuracy	1 Bit
Max. response time, high	100 ns
Max. response time, low	100 ns
Output current per channel, max.	500 mA
Output current per module, max.	1000 mA
Switching frequency, resistive load	Static, 6 Hz ... 40 kHz
Switching frequency, inductive load	Static, 6 Hz ... 40 kHz
Switching frequency, lamp load	Static, 6 Hz ... 40 kHz
Actuator connection	2-wire, 3-wire, 3-wire + FE
Short-circuit-proof	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Feedback-free	Yes
Pulse duty factor	0–100% push/pull or push, parameterisable
General data	
Weight	85 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants			
	Digital output module, PWM, 2 channels, 0.5 A		
Note			

Type	Qty.	Order No.
UR20-2PWM-PN-0.5A-V2	1	3036960000

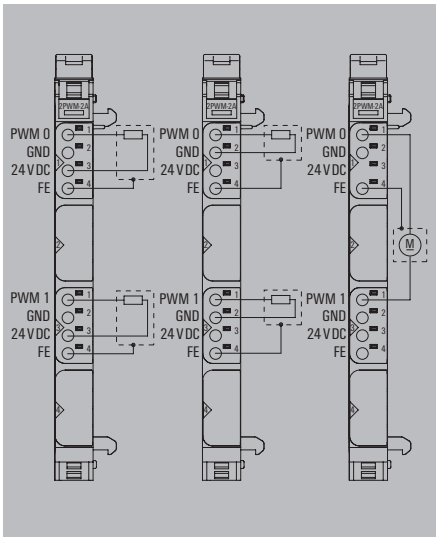
2PWM-PN-2A

- 2 pulse width modulation module outputs
- Can be loaded up to 2 A per channel
- Short-circuit-proof
- Push/pull output
- Maximum 40 kHz output frequency (adjustable)

UR20-2PWM-PN-2A-V2

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	192 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	40 mA
Digital outputs	
Number of digital outputs	2
Type	DO PWM push / pull
Resolution	32 Bit
Accuracy	1 Bit
Max. response time, high	100 ns
Max. response time, low	100 ns
Output current per channel, max.	2000 mA
Output current per module, max.	4000 mA
Switching frequency, resistive load	Static, 6 Hz ... 40 kHz
Switching frequency, inductive load	Static, 6 Hz ... 40 kHz
Switching frequency, lamp load	Static, 6 Hz ... 40 kHz
Actuator connection	2-wire, 3-wire, 3-wire + FE
Short-circuit-proof	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Feedback-free	Yes
Pulse duty factor	0–100% push/pull or push, parameterisable
General data	
Weight	83 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants			
	Digital output module, PWM, 2 channels, 2 A		
Note			

Type	Qty.	Order No.
UR20-2PWM-PN-2A-V2	1	3036950000

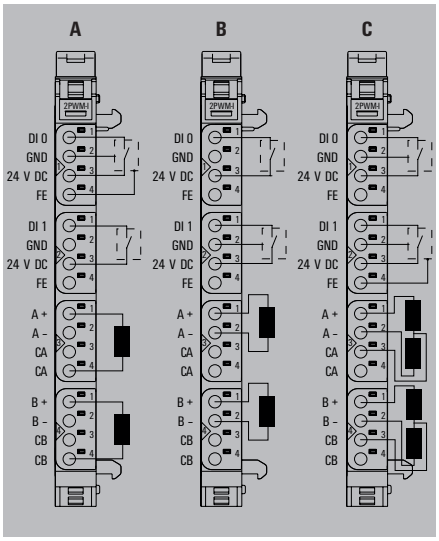
2PWM-I-2.5A-2DI-P

- 2 pulse width outputs
- PWM-controlled current regulation (parameterisable)
- Loadable up to 3 A (1-channel) or 2.5 A (2-channel)
- Switching frequency (pulse width modulation, adjustable): 30 kHz ± 10 %
- Overload-proof and short-circuit-proof
- Push/pull output enables current flow switching (direction of rotation of motors)

UR20-2PWM-I-2.5A-2DI-P

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	192 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	...9mA
Current consumption from I_{OUT} (the respective power segment)	0...25mA
Digital outputs	
Number of digital outputs	2
Type	Power amplifier output, PWM signal
Resolution	12 Bit (A/D converter), 16 Bit (current target value)
Output current per channel, max.	2.5 A
Output current per module, max.	5 A
Actuator connection	bipolar (A+, A– and B+, B–), unipolar (each with additional return conductor CA and CB), parameterisable
Module diagnosis	Yes
Individual channel diagnosis	Yes
Feedback-free	Yes
Pulse duty factor	0–100% push/pull or push, parameterisable
General data	
Weight	85 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, PWM, 2 channels, 2.5 A	UR20-2PWM-I-2.5A-2DI-P	1	**2697910000**
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	**1483050000**
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swievel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Replacement parts			
Electronic module	UR20-EM-2697910000-SP	1	**2735380000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-2697910000-SP	5	**2735370000**
Note			

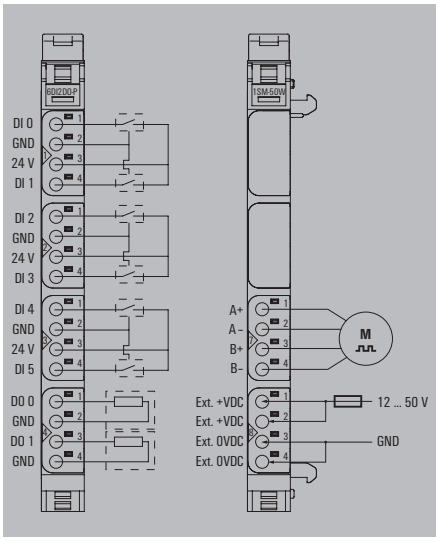
1SM-50W-6DI2DO-P

- Power output stage for drive power uo to 50 W
- 6 configurable encoder/digital inputs
- 2 digital outputs (0.5 A)
- Supply voltage range from 12 to 50 V DC
- Up to 256 micro-steps
- Relative and absolute positioning

UR20-1SM-50W-6DI2DO-P

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit/s
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	10 mA + load
Current consumption from external power supply	35 mA + load
Stepper motor connections	
Number of channels	1
Power output stage, max.	50 W
Connection type	4-wire
Digital inputs DI 0...DI 3	
Number of channels	4
Input type	P-switching, for Type 1 and Type 3 sensors as per IEC 61131-2
Current supply, sensor	max. 1 A per plug
Sensor connection	2-wire, 3-wire
Reverse polarity protection	Yes
Digital inputs DI 4...DI 5	
Number of channels	2
Input type	Input characteristics for sensor types 1 and 3 are according to EN 61131-2, P-switching
Suitable for incremental encoder	Yes
Input frequency, max.	100kHz
Mode of operation	AB mode with 4-times sampling
Current supply, sensor	max. 1 A per plug
Sensor connection	2-wire, 3-wire
Digital outputs DO 0...DO 1	
Number of channels	2
Response time low-high, max. / Response time high-low, max.	100µs / 250µS
Output current per channel, max.	0.5A
Actuator connection	2-wire
Short-circuit-proof / Reactionless	Yes / Yes
General data	
Weight / Dimensions H x W x D	173 g / 120 / 23 / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Stepper motor module, 6 digital inputs, 2 digital outputs	UR20-1SM-50W-6DI2DO-P	1	2489830000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-2489830000-SP	1	2585660000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK1-2489830000-SP	5	2573750000
Plug-in connector unit	UR20-PK2-2489830000-SP	5	2585650000
Note			

Analogue input modules

Input parameters can be set for current or voltage, up to 3-wire+FE, Accuracy 0.1% FSR

The analogue input modules can detect up to 2, 4 or 8 analogue sensors with +/-10 V, +/-5 V, 0...10 V, 0...5 V, 2...10 V, 1...5 V, 0...20 mA or 4...20 mA. Variations are available in 12 and 16 bit resolution per channel. Sensors in a 2-wire, 3-wire or 3-wire connection + FE can be connected to each plug-in connector. The measurement range is defined using parametrisation. A status LED is assigned to each channel. The inputs are protected against voltage surges and overcurrent. The module electronics supply the connected sensors from the input current path I_{IN} (The "ISO" module is an exception: the module has no auxiliary voltage outputs. Connected sensors must be supplied with power from external sources).

"DIAG" module: the module provides individual channel diagnosis with channel-related fault messages.

"DIF" module: the input channels are differential inputs with a common-mode voltage range of +/-30 V.

"HART" module: the module can be used as a HART master, with each channel using a dedicated HART modem. HART devices can be connected to each channel in single connection (point-to-point, P2P) or multiple connection (multidrop).

UR20-2AI-UI-16

UR20-4AI-UI-12

UR20-4AI-UI-16

UR20-2AI-UI-16-DIAG

UR20-4AI-UI-16-DIAG

UR20-4AI-UI-ISO-16-DIAG

UR20-4AI-UI-16-HD

UR20-4AI-UI-16-DIAG-HD

UR20-8AI-I-16-HD

UR20-8AI-I-16-DIAG-HD

UR20-8AI-I-PLC-INT

UR20-4AI-UI-DIF-16-DIAG

UR20-4AI-UI-DIF-32-DIAG

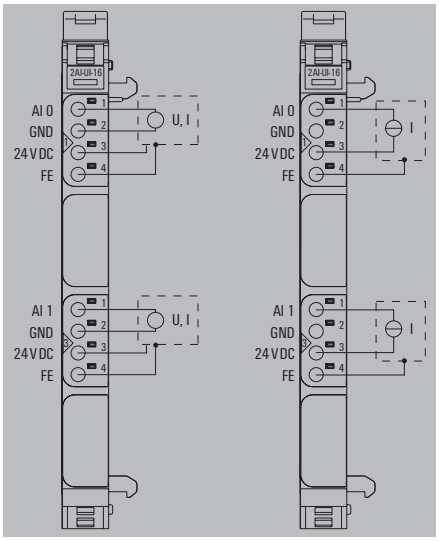
UR20-4AI-I-HART-16-DIAG

UR20-4AI-I-HART-ISO-16

2AI-UI-16

- 2 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire + FE connection

UR20-2AI-UI-16



Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	25 mA + sensor feed
Analogue inputs	
Number of analogue inputs	2
Type	1. U (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±10 V), 2. I (0–20 mA or 4–20 mA)
Resolution	16 Bit
Accuracy	0.1% FSR
Sensor supply	Yes
Sensor connection	2-wire, 3-wire, 3-wire + FE
Conversion time	1 ms
Internal resistance U	100 kΩ
Internal resistance I	41.2 Ω
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Short-circuit-proof	Yes
General data	
Weight	82.2 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	

Ordering data

Module variants	Type	Qty.	Order No.
Analogue input module, 2 channels, 16 bits	UR20-2AI-UI-16	1	2705620000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-2705620000-SP	1	2788700000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-2705620000-SP	5	2788710000
Note			

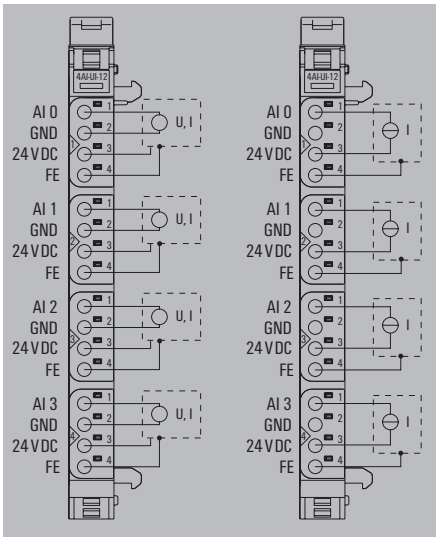
4AI-UI-12

- 4 analogue inputs
- Parameterisable inputs (voltage, current)
- 12-bit resolution
- 2-wire, 3-wire and 3-wire + FE connection
- Accuracy 0.25 % FSR

UR20-4AI-UI-12

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	25 mA + sensor feed
Analogue inputs	
Number of analogue inputs	4
Type	1. U (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±10 V), 2. I (0–20 mA or 4–20 mA), Adjustable input for current or voltage
Resolution	12-bit
Accuracy	0.1% FSR
Sensor supply	Yes
Sensor connection	2-wire, 3-wire, 3-wire + FE
Conversion time	1 ms
Internal resistance U	100 kΩ
Internal resistance I	41.2 Ω
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Short-circuit-proof	Yes
General data	
Weight	87 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Analogue input module, 4 channels, 12 bits	UR20-4AI-UI-12	1	1394390000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1394390000-SP	1	1434230000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1394390000-SP	5	1484030000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

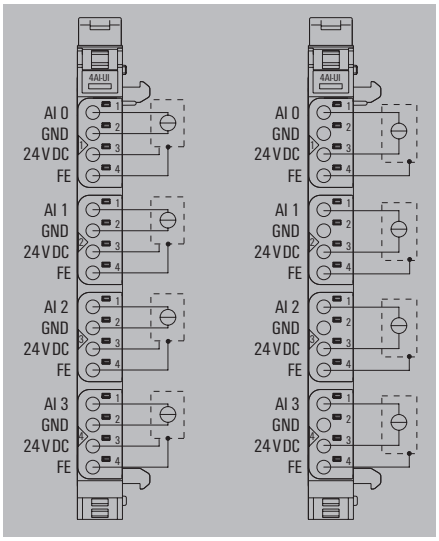
4AI-UI-16

- 4 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire + FE connection
- Accuracy 0.1 % FSR

UR20-4AI-UI-16

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	25 mA + sensor feed
Analogue inputs	
Number of analogue inputs	4
Type	1. U (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±10 V), 2. I (0–20 mA or 4–20 mA), Adjustable input for current or voltage
Resolution	16 Bit
Accuracy	0.1% FSR
Sensor supply	Yes
Sensor connection	2-wire, 3-wire, 3-wire + FE
Conversion time	1 ms
Internal resistance U	100 kΩ
Internal resistance I	41.2 Ω
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Short-circuit-proof	Yes
General data	
Weight	89 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Analogue input module, 4 channels, 16 bits	UR20-4AI-UI-16	1	1315620000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315620000-SP	1	1347200000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315620000-SP	5	1484020000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

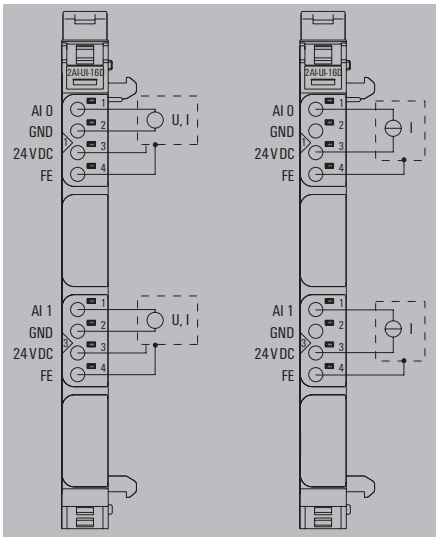
2AI-UI-16-DIAG

- 2 analogue inputs
- Parameterisable inputs (voltage, current)
- Advanced diagnosis functions
- 16-bit resolution
- 2-wire, 3-wire and 3-wire + FE connection
- Accuracy 0,1 % FSR

UR20-2AI-UI-16-DIAG

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	25 mA + sensor feed
Analogue inputs	
Number of analogue inputs	2
Type	1. U (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±10 V), 2. I (0–20 mA or 4–20 mA)
Resolution	16 Bit
Accuracy	0.1% FSR
Sensor supply	Yes
Sensor connection	2-wire, 3-wire, 3-wire + FE
Conversion time	1 ms
Internal resistance U	100 kΩ
Internal resistance I	41.2 Ω
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
Short-circuit-proof	Yes
General data	
Weight	82.5 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Analogue input module, 2 channels, 16 bits, diagnosis functions	UR20-2AI-UI-16-DIAG	1	2566090000
Note			

Accessories

	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-2566090000-SP	1	2568080000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-2566090000-SP	5	2568070000
Note			

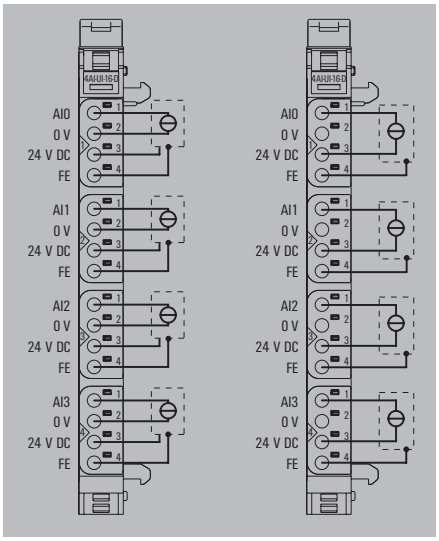
4AI-UI-16-DIAG

- Advanced diagnosis functions
- 4 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire + FE connection
- Accuracy 0.1 % FSR

UR20-4AI-UI-16-DIAG

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	25 mA + sensor feed
Analogue inputs	
Number of analogue inputs	4
Type	1. U (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±10 V), 2. I (0–20 mA or 4–20 mA)
Resolution	16 Bit
Accuracy	0.1% FSR
Sensor supply	Yes
Sensor connection	2-wire, 3-wire, 3-wire + FE
Conversion time	1 ms
Internal resistance U	100 kΩ
Internal resistance I	41.2 Ω
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
Short-circuit-proof	Yes
General data	
Weight	89 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Analogue input module, 4 channels, 16 bits, diagnosis functions	UR20-4AI-UI-16-DIAG	1	1315690000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315690000-SP	1	1347280000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315690000-SP	5	1518870000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

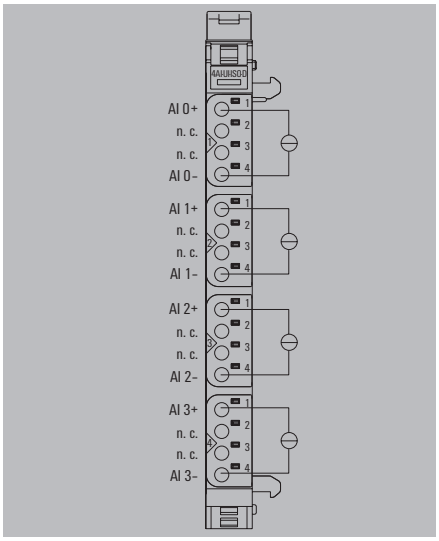
4AI-UI-ISO-16-DIAG

- 4 analogue inputs
- Extended diagnostic function
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire
- Accuracy 0.1 % FSR

UR20-4AI-UI-ISO-16-DIAG

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	31 mA
Analogue inputs	
Number of analogue inputs	4
Input value	Voltage U (0...5 V, ±5 V, 0...10 V, ±10 V, 1...5 V, 2...10 V), Current I (0...20 mA, 4...20 mA)
Resolution	16 Bit
Accuracy	0.1% FSR
Sensor supply	No
Sensor connection	2-wire
Conversion time	1 ms
Internal resistance U	200 kΩ
Internal resistance I	70 Ω
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
General data	
Weight	89.9 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Analogue input module, 4 channels, 16 bit, isolated	UR20-4AI-UI-ISO-16-DIAG	1	2566960000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-2566960000-SP	1	2568360000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-2566960000-SP	5	2568320000
Note			

4AI-UI-16-HD

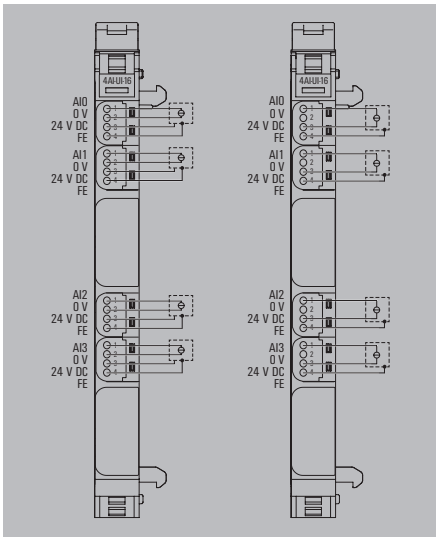
- 4 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire + FE connection
- Accuracy 0.1 % FSR

UR20-4AI-UI-16-HD

Note: Please order connector separately

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	25 mA + sensor feed
Analogue inputs	
Number of analogue inputs	4
Type	1. U (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±10 V), 2. I (0–20 mA or 4–20 mA)
Resolution	16 Bit
Accuracy	0.1% FSR
Sensor supply	Yes
Sensor connection	2-wire, 3-wire, 3-wire + FE
Conversion time	1 ms
Internal resistance U	100 kΩ
Internal resistance I	45 Ω
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Short-circuit-proof	Yes
General data	
Weight	72 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Analogue input module, 4 channels, 16 bits, HD plug	UR20-4AI-UI-16-HD	1	1506920000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Connector and tools			
*3) HD plug	UR20-PG0.35	8	1469340000
*4) Stripping tool	MULTI-STRIPAX 6-16	1	9202210000
*5) Pressing tool	PWZ-UR20-HD	1	1525820000
Replacement parts			
Electronic module	UR20-EM-1506920000-SP	1	1515420000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1506920000-SP	5	1518830000
Note	Note: please order plug (1469340000) separately.		

4AI-UI-16-DIAG-HD

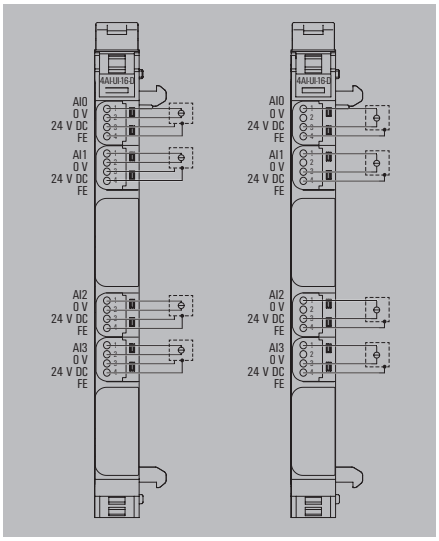
- Advanced diagnosis functions
- 4 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire + FE connection
- Accuracy 0.1 % FSR

UR20-4AI-UI-16-DIAG-HD

Note: Please order connector separately

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	25 mA + sensor feed
Analogue inputs	
Number of analogue inputs	4
Type	1. U (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±10 V), 2. I (0–20 mA or 4–20 mA)
Resolution	16 Bit
Accuracy	0.1% FSR
Sensor supply	Yes
Sensor connection	2-wire, 3-wire, 3-wire + FE
Conversion time	1 ms
Internal resistance U	100 kΩ
Internal resistance I	45 Ω
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
Short-circuit-proof	Yes
General data	
Weight	72 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Analogue input module, 4 channels, diagnosis functions, HD-plug	UR20-4AI-UI-16-DIAG-HD	1	1506910000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Connector and tools			
*3) HD plug	UR20-PG0.35	8	1469340000
*4) Stripping tool	MULTI-STRIPAX 6-16	1	9202210000
*5) Pressing tool	PWZ-UR20-HD	1	1525820000
Replacement parts			
Electronic module	UR20-EM-1506910000-SP	1	1515430000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1506910000-SP	5	1518820000
Note	Note: please order plug (1469340000) separately.		

8AI-I-16-HD

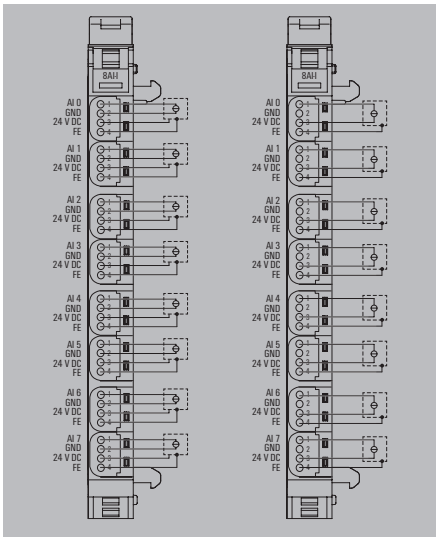
- 8 analogue inputs (current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire + FE connection
- Accuracy 0.1 % FSR

UR20-8AI-I-16-HD

Note: Please order connector separately

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	20 mA + load
Analogue inputs	
Number of analogue inputs	8
Input value	Current I (0...20 mA, 4...20 mA)
Resolution	16 Bit
Accuracy	0.1% FSR
Sensor supply	Yes
Sensor connection	2-wire, 3-wire, 3-wire + FE
Conversion time	1 ms
Internal resistance I	50 Ω
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Short-circuit-proof	Yes
General data	
Weight	74 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Analogue input module, 8 channels, 16 Bits, HD-plug	UR20-8AI-I-16-HD	1	1315650000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Connector and tools			
*3) HD plug	UR20-PG0.35	8	1469340000
*4) Stripping tool	MULTI-STRIPAX 6-16	1	9202210000
*5) Pressing tool	PWZ-UR20-HD	1	1525820000
Replacement parts			
Electronic module	UR20-EM-1315650000-SP	1	1347240000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315650000-SP	5	1559740000
Note	Note: please order plug (1469340000) separately.		

8AI-I-16-DIAG-HD

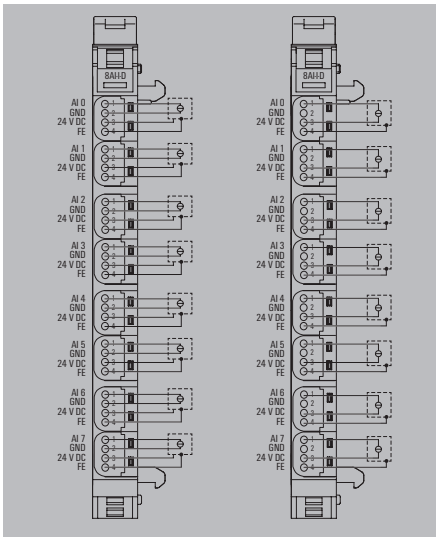
- Advanced diagnosis functions
- 8 analogue inputs (current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire + FE connection
- Accuracy 0.1 % FSR

UR20-8AI-I-16-DIAG-HD

Note: Please order connector separately

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	20 mA + load
Analogue inputs	
Number of analogue inputs	8
Input value	Current I (0...20 mA, 4...20 mA)
Resolution	16 Bit
Accuracy	0.1% FSR
Sensor supply	Yes
Sensor connection	2-wire, 3-wire, 3-wire + FE
Conversion time	1 ms
Internal resistance I	50 Ω
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
Short-circuit-proof	Yes
General data	
Weight	74 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Analogue input module, 4 channels, diagnosis functions, HD-plug	UR20-8AI-I-16-DIAG-HD	1	1315720000
Note			

Accessories

Connector and tools	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Connector and tools			
*3) HD plug	UR20-PG0.35	8	1469340000
*4) Stripping tool	MULTI-STRIPAX 6-16	1	9202210000
*5) Pressing tool	PWZ-UR20-HD	1	1525820000
Replacement parts			
Electronic module	UR20-EM-1315720000-SP	1	1347320000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315720000-SP	5	1559750000
Note	Note: please order plug (1469340000) separately.		

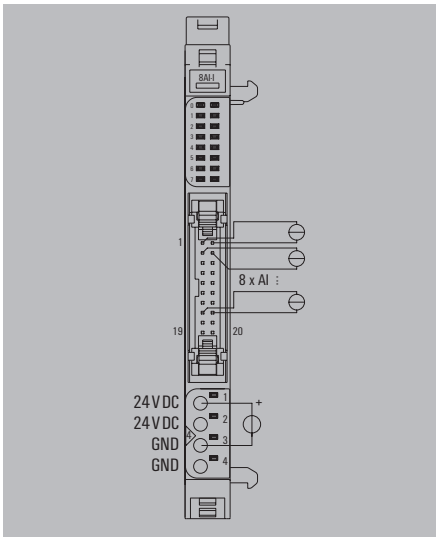
8AI-I-PLC-INT

- 8 analogue inputs (current)
- Rapid cabling with flat ribbon cable
- 0/4 to 20 mA with 0.1 % accuracy with a 16-bit resolution
- Inputs can be parameterised (passive or active operating mode)
- Accuracy 0,1 % FSR

UR20-8AI-I-PLC-INT

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit/s
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	< 20 mA
Analogue inputs	
Number of analogue inputs	8
Type	Current input
Resolution	16 Bit
Accuracy	0.1% FSR
Sensor supply	external
Sensor connection	PLC interface unit
Conversion time	1 ms
Internal resistance I	50 Ω
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Short-circuit-proof	Yes
General data	
Weight	85 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Analogue input module, 8 channels, PLC interface	UR20-8AI-I-PLC-INT	1	**1315670000**
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	**1483050000**
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swivel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Connector and cable			
PLC interface element	RS F20 LP2N 5/20	1	**0224261001**
Pre-assembled cable, 1m	PAC-UNIV-HE20-LCH-1M	1	**7789306010**
Replacement parts			
Electronic module	UR20-EM-1315670000-SP	1	**1347250000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315670000-SP	5	**1483950000**
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

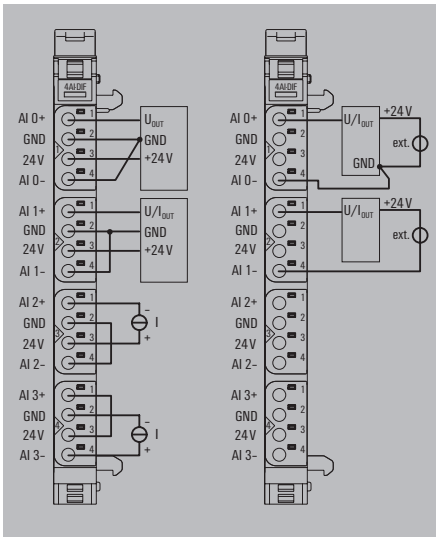
4AI-UI-DIF-16-DIAG

- 4 differential analog inputs
- Advanced diagnosis functions
- Parameterizable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 4-wire
- Accuracy 0.1% FSR

UR20-4AI-UI-DIF-16-DIAG

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	33 mA + load
Analogue inputs	
Number of analogue inputs	4
Input value	Voltage U (0...5 V, ±5 V, 0...10 V, ±10 V, 1...5 V, 2...10 V), Current I (0...20 mA, 4...20 mA)
Resolution	16 Bit
Accuracy	0.1% FSR
Sensor supply	Yes
Sensor supply	500mA
Sensor connection	2-wire, 3-wire, 4-wire
Input type	Differential input
Common mode range	-30V...30V
Conversion time	1 ms
Internal resistance I	18 Ω
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
Short-circuit-proof	Yes
General data	
Weight	90 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Qty.	Order No.
Analogue input module, 4 channels, 16 Bits, Differential inputs	1	1993880000
Note		

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1993880000-SP	1	2446190000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1993880000-SP	5	2446200000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

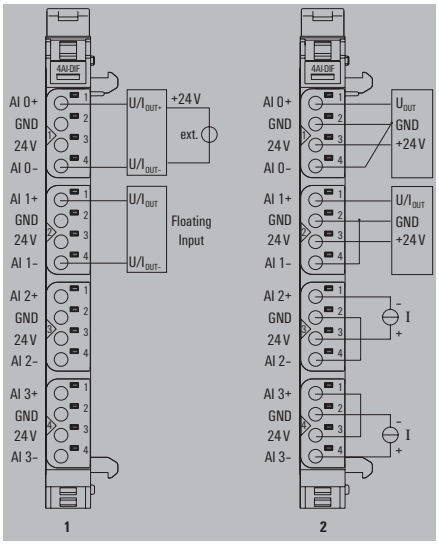
4AI-UI-DIF-32-DIAG

- 4 differential analog inputs
- Advanced diagnosis functions
- Parameterizable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 4-wire
- Accuracy 0.1% FSR

UR20-4AI-UI-DIF-32-DIAG

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	31 mA + load
Analogue inputs	
Number of analogue inputs	4
Input value	Voltage U (0...5 V, ±5 V, 0...10 V, ±10 V, 1...5 V, 2...10 V), Current I (0...20 mA, 4...20 mA)
Resolution	16 Bit
Accuracy	0.1% FSR
Sensor supply	Yes
Sensor supply	500mA
Sensor connection	2-wire, 3-wire, 4-wire
Input type	Differential input
Common mode range	-30V...30V
Conversion time	1 ms
Internal resistance I	16 Ω
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
Short-circuit-proof	Yes
General data	
Weight	90 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Analogue input module, 4 channels, 16 Bits, Differential inputs	UR20-4AI-UI-DIF-32-DIAG	1	2544660000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-2544660000-SP	1	2550610000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-2544660000-SP	5	2550620000
Note			

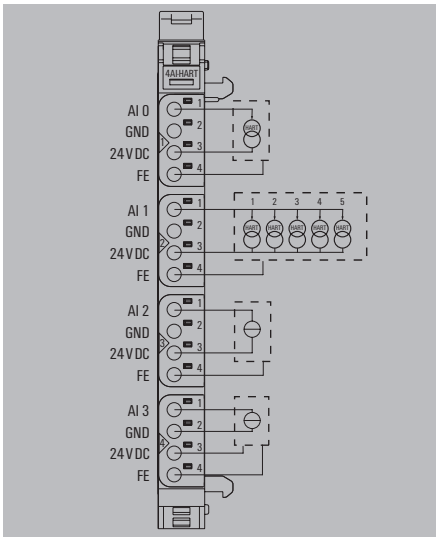
4AI-I-HART-16-DIAG

- 4 HART inputs
- max. 1 ms conversion time
- 16-bit resolution
- Accuracy 0,1 % FSR
- Individual channel diagnosis

UR20-4AI-I-HART-16-DIAG

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	27 mA + Sensor feed
Analogue inputs	
Number of analogue inputs	4
Sensor connection	2-wire, 3-wire, 4-wire
Input value	Current I (0...20 mA, 4...20 mA)
Conversion time	1 ms
Resolution	16 Bit
Accuracy	0.1% FSR
Sensor supply	Yes
Internal resistance I	250 Ω
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Module diagnosis	Yes
Individual channel diagnosis	Yes
General data	
Weight	88 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Qty.	Order No.
Analogue input module HART Master, 4 channels, 16 bits		
UR20-4AI-I-HART-16-DIAG	1	**2617520000**
Note		

Accessories

	Qty.	Order No.
Coding elements	100	**1483050000**
Termination kit	5	**1346610000**
Swivel marker	20	**1339920000**
Connection marker for pusher custom printing	192	**1323700000**
Connection marker for pusher neutral	960	**1323710000**
Module marker for custom printing	100	**1341610000**
Module marker for neutral	500	**1341630000**
Thermotransfer version (Material: Polyester)	1	**1429910000**
Thermotransfer version (material: polyester)	1	**1429420000**
Paper version for Laserprinter	10	**1429430000**
Replacement parts		
Electronic module	1	**2702570000**
Basic module	5	**1350930000**
Plug-in connector unit	5	**2702540000**
Note		

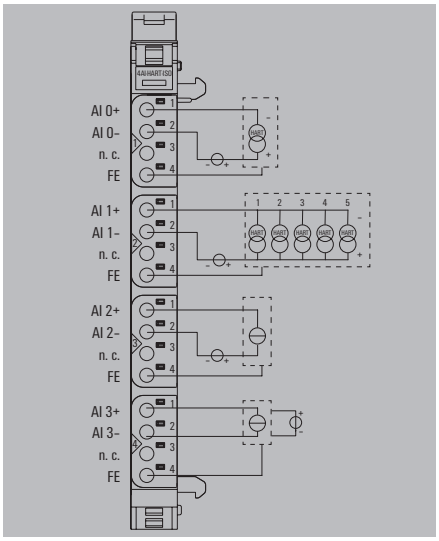
4AI-I-HART-ISO-16

- 4 HART inputs
- Insulation up to 500 V
- max. 1 ms conversion time
- 16-bit resolution
- Accuracy 0,1 % FSR

UR20-4AI-I-HART-ISO-16

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	192 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24V DC +20 %/-15 % (according to IEC 61131), 24V DC +30%/-25% (according to DNV GL)
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	32 mA
Analogue inputs	
Number of analogue inputs	4
Sensor connection	2-wire, 2 wire + FE
Input value	Current I (0...20 mA, 4...20 mA)
Conversion time	1 ms
Resolution	16 Bit
Accuracy	max. 0,1% FSR (at 25°C), ±50 ppm/K max.
Sensor supply	No
Internal resistance I	250 Ω
Voltage supply	24V DC +20 %/-15 % (according to IEC 61131), 24V DC +30%/-25% (according to DNV GL)
Module diagnosis	Yes
Individual channel diagnosis	Yes
General data	
Weight	89 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
	UR20-4AI-I-HART-ISO-16	1	2828350000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-2828350000-SP	1	2935070000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-2828350000-SP	5	2935060000
Note			

Temperature modules and potentiometer input module

Available for TC and RTD, 16-bit resolution, 50/60 Hz suppression

The analogue temperature modules and potentiometer input module can acquire up to 4 or 8 analogue resistance thermocouplers, thermocouple sensors, potentiometers or voltages from +/-15 mV to +/- 2 V. The resolution is 16 bits per channel. A sensor can be connected to each connector in a 2-wire, 3-wire or 4-wire connection. Sensor type and temperature range are set using parametrisation. A status LED is assigned to each channel.
The inputs are protected against voltage surges and overcurrent. In addition, the modules provide individual channel diagnosis with channel-related fault messages.

"HP" module: the module is intended for high-precision applications. A user calibration can be parametrised for the resistance measurement.

"TC" module: internal or external cold junction compensation (CJC) can be parametrised for each channel.

UR20-4AI-RTD-DIAG

UR20-4AI-RTD-HP-DIAG

UR20-8AI-RTD-DIAG-2W

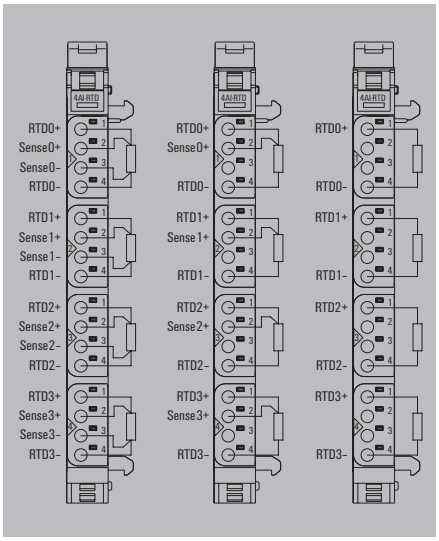
UR20-4AI-TC-DIAG

UR20-4AI-R-HS-16-DIAG

4AI-RTD-DIAG

- 4 analogue inputs
- For 2-, 3- and 4-wire RTDs
- Temperature measurement via resistor
- 16-bit resolution
- Individual channel diagnosis
- Automatic 50 and 60 Hz suppression
- High accuracy
- Integrated, parameterisable characteristic curves for almost all common sensors

UR20-4AI-RTD-DIAG



Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	< 20 mA
Analogue inputs	
Number of analogue inputs	4
Type	Pt100, Pt200, Pt500, Pt1000, Ni100, Ni120, Ni 200, Ni500, Ni1000, Cu10, 40Ω, 80Ω, 150Ω, 300Ω, 500Ω,1kΩ, 2kΩ,4kΩ
Resolution	16 Bit
Accuracy	0.2% FSR / 0.3% FSR for Ni sensors / 0.6% FSR for Cu10
Sensor connection	2-wire, 3-wire, 4-wire
Temperature coefficient	≤ 50 ppm/K
Temperature range	-200...850 °C
Conversion time	adjustable, 36...240 ms
Internal resistance U	1 MΩ
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
General data	
Weight	91 g
Dimensions H x W x D	120 mm / 11.5 / 76 mm
Note	

Ordering data

Module variants	Type	Qty.	Order No.
Analogue input module, 4 channels, RTD	UR20-4AI-RTD-DIAG	1	1315700000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315700000-SP	1	1347290000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315700000-SP	5	1484040000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

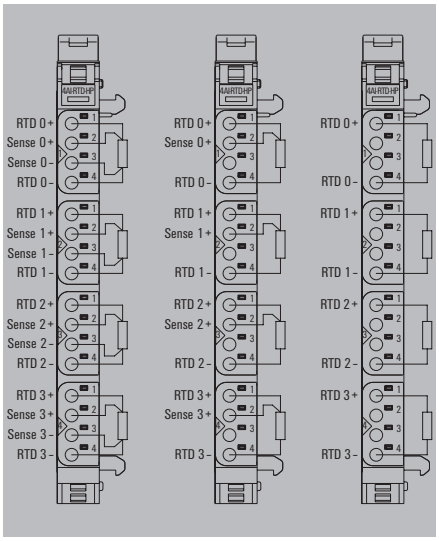
4AI-RTD-HP-DIAG

- 4 analogue inputs
- For 2-,3- and 4wire RTDs
- Temperature measurement via resistor
- 16-bit resolution
- Individual channel diagnosis
- Increased accuracy
- Integrated, parameterisable characteristic curves for almost all common sensors

UR20-4AI-RTD-HP-DIAG

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	< 20 mA
Analogue inputs	
Number of analogue inputs	4
Type	Pt100, Pt200, Pt500, Pt1000, Ni100, Ni120, Ni 200, Ni500, Ni1000, Cu10, 40Ω, 80Ω, 150Ω, 300Ω, 500Ω,1kΩ, 2kΩ,4kΩ
Resolution	16 Bit
Accuracy	max. 0,6 K for Measurement range Pt100 (-200 ... +250 °C), max. 0,2 % FSR for Pt sensors and resistance measurement (-200 ... +250 °C), max. 0,3 % FSR for Ni sensors, max. 0,6 % FSR for Cu10
Sensor connection	2-wire, 3-wire, 4-wire
Temperature coefficient	≤ 50 ppm/K
Temperature range	-200...850 °C
Conversion time	adjustable, 36...240 ms
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
General data	
Weight	88 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Qty.	Order No.
Analogue input module, 4 channels, RTD		
UR20-4AI-RTD-HP-DIAG	1	2456540000
Note		

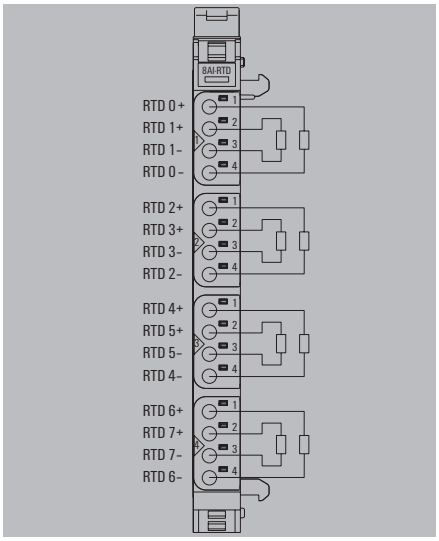
Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-2456540000-SP	1	2545620000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-2456540000-SP	5	2545610000
Note			

8AI-RTD-DIAG-2W

- 4 analogue inputs
- For 2-wire RTDs
- Temperature measurement via resistor
- 16-bit resolution
- Individual channel diagnosis
- High accuracy
- Integrated, parameterisable characteristic curves for almost all common sensors

UR20-8AI-RTD-DIAG-2W



Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	< 20 mA
Analogue inputs	
Number of analogue inputs	8
Type	Pt100, Pt200, Pt500, Pt1000, Ni100, Ni120, Ni 200, Ni500, Ni1000, Cu10, 40Ω, 80Ω, 150Ω, 300Ω, 500Ω,1kΩ, 2kΩ,4kΩ
Resolution	16 Bit
Accuracy	0.2% FSR / 0.3% FSR for Ni sensors / 0.6% FSR for Cu10
Sensor connection	2-wire
Temperature coefficient	≤ 50 ppm/K
Temperature range	-200...850 °C
Conversion time	80 ms
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
General data	
Weight	91 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	

Ordering data

Module variants	Type	Qty.	Order No.
Analogue input module, 8 channels, RTD	UR20-8AI-RTD-DIAG-2W	1	**2555940000**
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	**1483050000**
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swievel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Replacement parts			
Electronic module	UR20-EM-2555940000-SP	1	**2593310000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-2555940000-SP	5	**2593300000**
Note			

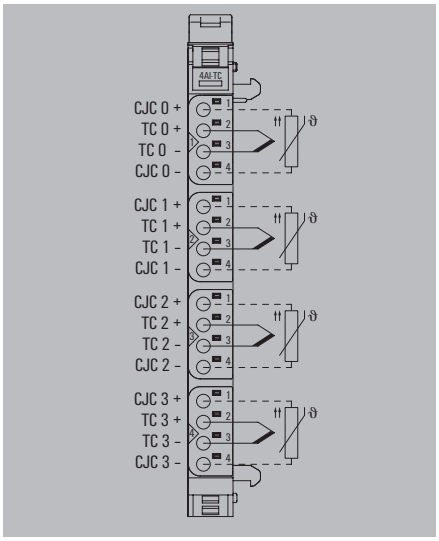
4AI-TC-DIAG

- 4 analogue inputs
- Various TC sensors
- Individual channel diagnosis
- High accuracy of 0.2 % FSR
- 16-bit resolution
- Internal or external cold-junction compensation possible
- Automatic 50 and 60 Hz suppression

UR20-4AI-TC-DIAG

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	< 20 mA
Analogue inputs	
Number of analogue inputs	4
Type	J, K, T, B, N, E, R, S, L, U, C, mV
Resolution	16 Bit
Accuracy	0.2% FSR
Sensor connection	2-wire
cold junction compensation	Internal and external (int. accuracy ≤ 3 K)
Temperature coefficient	≤ 50 ppm/K
Temperature range	-200...2315 °C
Conversion time	adjustable, 36...240 ms
Internal resistance U	1 MΩ
Module diagnosis	Yes
Individual channel diagnosis	Yes
Reverse polarity protection	Yes
General data	
Weight	86 g
Dimensions H x W x D	120 mm / 11.5 / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Analogue input module, 4 channels, thermocouple	UR20-4AI-TC-DIAG	1	1315710000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315710000-SP	1	1435740000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315710000-SP	5	1484050000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

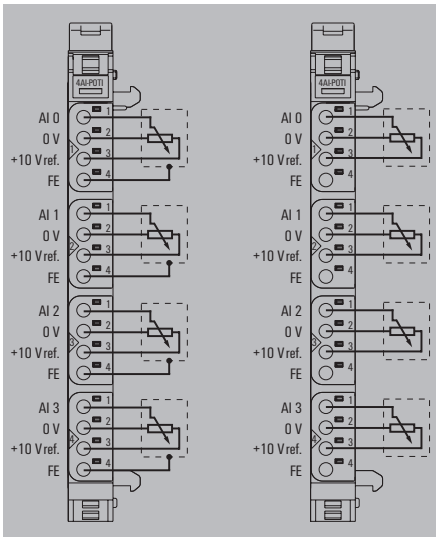
4AI-R-HS-16-DIAG

- 4 potentiometer inputs
- Measuring range from 300 Ω ... 50 kΩ
- 16 Bit resolution
- 500 µs conversion time
- Accuracy < ± 0.25 % FSR
- Individual calibration and scaling

UR20-4AI-R-HS-16-DIAG

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	26 mA
Analogue inputs	
Number of analogue inputs	4
Sensor connection	3-wire, 3-wire + FE
Input value	Ratiometric potentiometer evaluation with own power supply
Measurement range	300 Ω ...50 kΩ
Conversion time	typ. 500 µs (typ. 625 µs at 50 Hz / typ. 521 µs at 60 Hz frequency suppression)
Resolution	16 Bit
Accuracy	< ± 0.25 % FSR at 25 °C
Temperature coefficient	≤ 50 ppm/K
Input resistance	typ. 500 kΩ against the wiper connection
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current of supply voltage output	max. 0.05 A per channel, total 0.2 A
Wire-break recognition	Yes
Short-circuit-proof	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
General data	
Weight	89 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Qty.	Order No.
Analogue input module for potentiometer, 4 channels, 16 bits		
UR20-4AI-R-HS-16-DIAG	1	**2001670000**
Note		

Accessories

	Qty.	Order No.
Coding elements	100	**1483050000**
Termination kit	5	**1346610000**
Swivel marker	20	**1339920000**
Connection marker for pusher custom printing	192	**1323700000**
Connection marker for pusher neutral	960	**1323710000**
Module marker for custom printing	100	**1341610000**
Module marker for neutral	500	**1341630000**
Thermotransfer version (Material: Polyester)	1	**1429910000**
Thermotransfer version (material: polyester)	1	**1429420000**
Paper version for Laserprinter	10	**1429430000**
Replacement parts		
Electronic module	1	**2068640000**
Basic module	5	**1350930000**
Plug-in connector unit	5	**2068610000**
Note		
1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

Strain gauge module

2-channel module for u-remote load cell analysis

The UR20-2AI-SG-24-DIAG strain gauge module is an analogue input module designed for the connection of force sensors that use strain gauges. In this way, weights, torques or vibrations can be precisely recorded. The module can be calibrated via parametrisation. The web server can be used to calibrate the module with password protection, and the calibration settings are then documented.

The tare function can be triggered individually for each channel via a digital input or via software. Several sensors can be connected in parallel to each of the two channels in a 4- or 6-wire connection, as long as their input impedance is within the permissible sensor load. The resolution per channel is 24 bits with an accuracy of 0.01% of full scale. A status LED is assigned to each channel. The module electronic supplies the connected sensors from a potential electrogalvanised from the input current path (I_{IN}). The inputs are protected against voltage surges and overcurrent.

The u-remote strain gauge module enables the parallel analysis of measurement data from up to four load cells on a single channel.

UR20-2AI-SG-24-DIAG

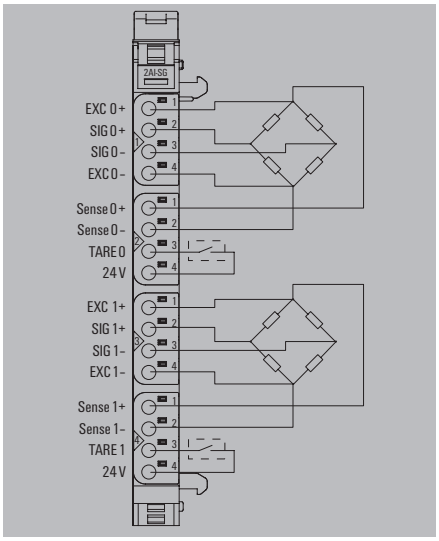
2AI-SG-24-DIAG

- 2 differential inputs for DMS
- 24-bit resolution
- Individual channel diagnosis
- 4- or 6-wire connection
- Accuracy ±0.01% FSR

UR20-2AI-SG-24-DIAG

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	35 mA
Analogue inputs	
Number of analogue inputs	2
Input value	Differential, to evaluate a strain gauge full-bridge
Resolution	24 bit per channel
Accuracy	Customer calibration: ±0.01% FSR (100 ppm), ±1% FSR (with interference)
Supported sensor sensitivity	0.5 mV - 30 V, parameterisable
Temperature coefficient	< 10 ppm/K
Permissible sensor load	85 ... 5000 Ω
Conversion time	5 - 800 ms, parameterisable
Measurement range	± 150 mV
Module diagnosis	Yes
Individual channel diagnosis	Yes
Short-circuit-proof	Yes
Digital inputs	
Input filter	10 ms
Input voltage, high	> 11 V
Input voltage, low	< 5 V
Individual channel diagnosis	Yes
Short-circuit-proof	Yes
Module diagnosis	Yes
Input type	Type 1 in acc. with IEC 61131-2, Type 3 in acc. with IEC 61131-2
General data	
Weight	90 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Strain gauge module, 2 channels	UR20-2AI-SG-24-DIAG	1	1990070000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1990070000-SP	1	1562260000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1990070000-SP	5	2068620000
Note			

Power measurement module

Power measurement via 1- or 3-phase, rated voltage to 300 V_{eff}

The UR20-3EM-230V-AC power measurement module is used to acquire and process all relevant measured variables of a single-phase or three-phase power consumer (up to 500 V AC phase-to-phase voltage): current (effective, average, peak), voltage (effective, average), reactive, apparent and active power, energy consumption, power factor, frequency, overvoltage and undervoltage alarm, overcurrent and undercurrent alarm.

Currents up to 5 A can be measured directly with the module. The measurement in the outer conductor allows currents to be measured in star or delta connection without further external components. The module supplies data to the field bus via eight channels (16 bits each). The content of each individual data channel can be selected from 55 registers (currents, voltages, power factor, frequency as well as power and energy measurement). In addition, parameters for limit monitoring can be set so that exceeding or falling below limit values triggers a process alarm.

A status LED is assigned to each channel.

UR20-3EM-230V-AC

UR20-3EM-400V-AC-CT1A

UR20-3EM-400V-AC-CT5A

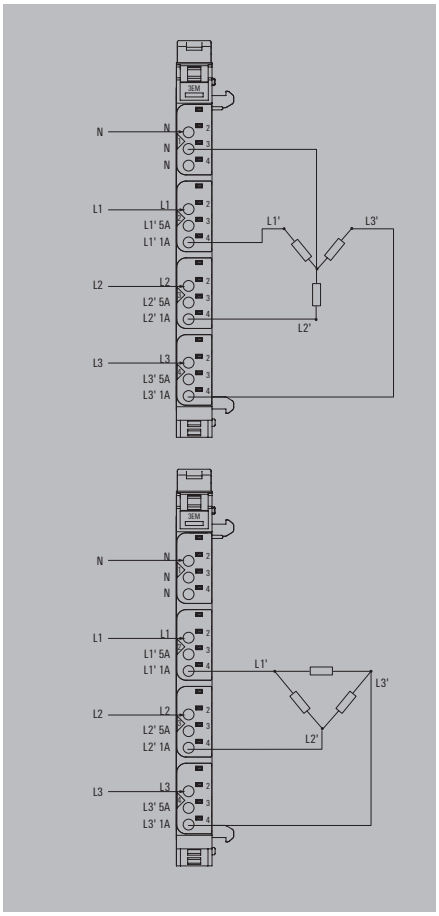
3EM-230V-AC

- 1- or 3-phase power measurement for 1 A or 5 A (with or without transformer)
- Measurement in the phase conductor
- 16 bit resolution
- Power-/ reactiv power measurement
- Energy meter Active / reactive
- Power factor
- Frequency measurement 45 ... 65 Hz
- Analysis of 31 harmonics

UR20-3EM-230V-AC

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	12 mA
Analogue inputs	
Number	3
Rated voltage	300 V_{eff} (L-N), 520 V_{eff} (L-L)
Resolution	16 bit per channel (internal 24 bit)
Sampling rate of current measurement	3,300 samples/s
Frequency of the supply system	45...65 Hz
Analysis of harmonic	31 (Blackmann-Harris Window)
Power rating	0...1 A / 0...5 A AC
Insulation	1.5 kV_{eff} (input / system)
Nominal peak voltage	4
Category for voltage measurements	CAT II (IEC 61010 Part 1)
Measurement method	High Resolution Delta Sigma (current measurement in outer conductor)
Measurement accuracy	0.5% in relation to final value (U / I), 1% for the calculated values
Connectable converter ratios	1 ... 1000
Input impedance voltage	2.4 MΩ per channel
Measurement resistance (shunt)	4 mΩ (at 5 A), 20 mΩ (at 1 A)
General data	
Weight	90 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Power measurement module, 3 channels	UR20-3EM-230V-AC	1	2007420000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-2007420000-SP	1	1562270000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-2007420000-SP	5	2068630000
Note			

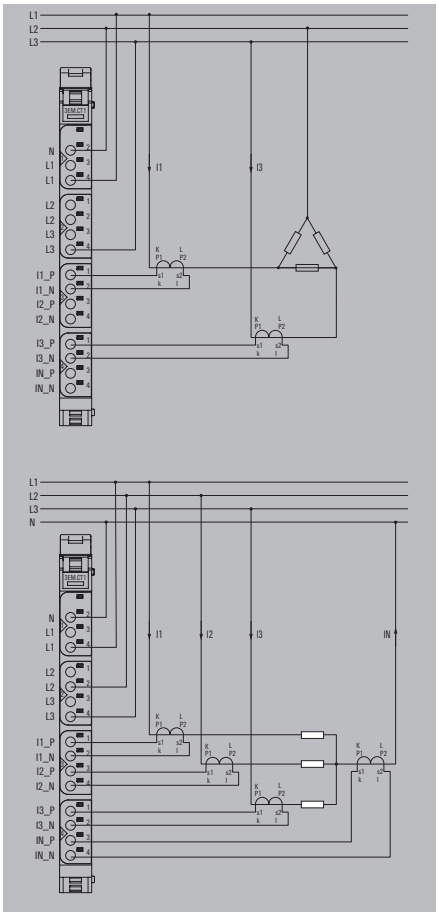
3EM-400V-AC-CT1A

- 1-phase power measurement for 1 A converter (with or without transformer)
- 16 bit resolution
- 32 bit resolution for energy meters
- Power-/ reactiv power measurement
- Energy meter Active / reactive
- Power factor
- Frequency measurement 45 ... 65 Hz
- Analysis of 43 harmonics

UR20-3EM-400V-AC-CT1A

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	192 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus, 24V DC +20 %/-15 % (according to IEC 61131), 24V DC +30%/-25% (according to DNV GL)
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	<35 mA
Analogue inputs	
Number	3
Rated voltage	300 V eff AC (L-N), 520 V eff AC (L-L), according to table I.1 of IEC 61010-1:2010/AMD1:2016/COR1:2019
Resolution	16 bit per channel (internal 24 bit), 32 bit for energy counter
Sampling rate of current measurement	Sigma Delta ADC with 1.024 MHz (bandwidth of interest from 40 Hz to 3.3 kHz)
Frequency of the supply system	45...65 Hz
Analysis of harmonic	up to 43rd
Power rating	0...1 A AC
Insulation	reinforced insulation
Category for voltage measurements	CAT III (according to IEC 61010-1), CAT II (according to IEC 61010-1) for installations with rated voltage to earth > 300 V
Measurement method	High Resolution Delta Sigma (current measurement in outer conductor)
Measurement accuracy	0.25% in relation to final value (U / I), 0.5% for the calculated values, 0.75% for harmonics
Connectable converter ratios	1:1
Input impedance voltage	1.881 MΩ
Input impedance current (differential)	40 mΩ
General data	
Weight	91 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Qty.	Order No.
Power measurement module, 3 channels		
UR20-3EM-400V-AC-CT1A	1	**2920830000**
Note		

Accessories

	Qty.	Order No.
Coding elements	100	**1483050000**
Termination kit	5	**1346610000**
Swivel marker	20	**1339920000**
Connection marker for pusher custom printing	192	**1323700000**
Connection marker for pusher neutral	960	**1323710000**
Module marker for custom printing	100	**1341610000**
Module marker for neutral	500	**1341630000**
Thermotransfer version (Material: Polyester)	1	**1429910000**
Thermotransfer version (material: polyester)	1	**1429420000**
Paper version for Laserprinter	10	**1429430000**
Replacement parts		
Electronic module	1	**3052120000**
Basic module	5	**1350930000**
Plug-in connector unit	5	**3052170000**
Note		

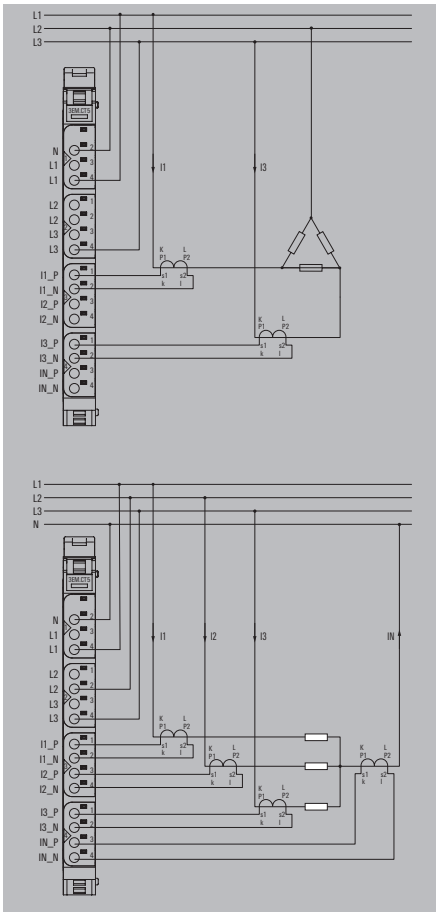
3EM-400V-AC-CT5A

- 1-phase power measurement for 5 A converter (with or without transformer)
- 16 bit resolution
- 32 bit resolution for energy meters
- Power-/ reactiv power measurement
- Energy meter Active / reactive
- Power factor
- Frequency measurement 45 ... 65 Hz
- Analysis of 43 harmonics

UR20-3EM-400V-AC-CT5A

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	192 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus, 24V DC +20 %/-15 % (according to IEC 61131), 24V DC +30%/-25% (according to DNV GL)
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	<35 mA
Analogue inputs	
Number	3
Rated voltage	300 V eff AC (L-N), 520 V eff AC (L-L), according to table I.1 of IEC 61010-1:2010/AMD1:2016/COR1:2019
Resolution	16 bit per channel (internal 24 bit), 32 bit for energy counter
Sampling rate of current measurement	Sigma Delta ADC with 1.024 MHz (bandwidth of interest from 40 Hz to 3.3 kHz)
Frequency of the supply system	45...65 Hz
Analysis of harmonic	up to 43rd
Power rating	0...5 A AC
Insulation	reinforced insulation
Category for voltage measurements	CAT III (according to IEC 61010-1), CAT II (according to IEC 61010-1) for installations with rated voltage to earth > 300 V
Measurement method	High Resolution Delta Sigma (current measurement in outer conductor)
Measurement accuracy	0.25% in relation to final value (U / I), 0.5% for the calculated values, 0.75% for harmonics
Connectable converter ratios	5:5
Input impedance voltage	1.881 MΩ
Input impedance current (differential)	5 mΩ
General data	
Weight	91 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Qty.	Order No.
Power measurement module, 3 channels		
Note		
UR20-3EM-400V-AC-CT5A	1	**2920840000**

Accessories

	Qty.	Order No.
Coding elements	100	**1483050000**
Termination kit	5	**1346610000**
Swivel marker	20	**1339920000**
Connection marker for pusher custom printing	192	**1323700000**
Connection marker for pusher neutral	960	**1323710000**
Module marker for custom printing	100	**1341610000**
Module marker for neutral	500	**1341630000**
Thermotransfer version (Material: Polyester)	1	**1429910000**
Thermotransfer version (material: polyester)	1	**1429420000**
Paper version for Laserprinter	10	**1429430000**
Replacement parts		
Electronic module	1	**3052130000**
Basic module	5	**1350930000**
Plug-in connector unit	5	**3052180000**
Note		

Analogue output modules

2- or 4-wire connection, 16-bit resolution, 4 outputs

The analogue output modules can control up to 2 or 4 actuators with +/-10 V, +/-5 V, 0...10 V, 0...5 V, 2...10 V, 1...5 V, 0...20 mA or 4...20 mA. The resolution is 16 bits per channel. An actuator can be connected to each connector in a 2-wire or 4-wire connection. The internal switching is automatic. The output range is defined using parametrisation. A status LED is assigned to each channel. The outputs are supplied from the output current path (I_{OUT}) and are decoupled from the system bus (I_{SYS}).

"DIAG" module: the module provides individual channel diagnosis with channel-related fault messages.

"M" module: the module is approved for usage in industrial, marine and offshore applications.

"ISO" module: actuators can only be connected in a 2-wire connection. The outputs are not only decoupled from the system bus (I_{SYS}), but also from the output current path (I_{OUT}) and from each other.

The outputs are supplied from the output current path (U_{OUT}).

UR20-2AO-UI-16

UR20-4AO-UI-16

UR20-4AO-UI-16-M

UR20-2AO-UI-16-DIAG

UR20-2AO-UI-ISO-16-DIAG

UR20-4AO-UI-16-DIAG

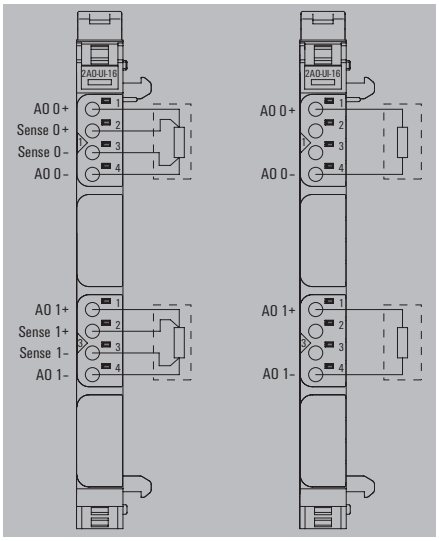
UR20-4AO-UI-16-M-DIAG

UR20-4AO-UI-16-HD

2AO-UI-16

- 2 analogue outputs
- Outputs can be parameterised by channel (voltage, current)
- 16-bit resolution
- 2- and 4-wire connection
- Short-circuit-proof

UR20-2AO-UI-16



Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	110 mA
Analogue outputs	
Number of analogue outputs	2
Output variable	Voltage (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±10 V, ±5 V), Current (0...20 mA or 4...20 mA)
Response time	1 ms / 2 channels
Resolution	16 Bit
Accuracy	±0,1 % FSR max., 0,05 % FSR typ.
load impedance voltage	> 1 kΩ (at >50 °C ambient temperature, max. total sensor current = 25 mA)
Load impedance current	< 600 Ω
Actuator connection	2-wire (automatic detection), 4-wire
Temperature coefficient	30 ppm/K
Max. error between T min. and T max. in FSR	0.24 %
Monotonicity	Yes
Cross-talk between the channels in FSR	0.001 %
Repeat accuracy	< 1 mV eff.
Module diagnosis	Yes
Substitute values	Yes
General data	
Weight	83 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	

Ordering data

Module variants	Type	Qty.	Order No.
Analogue output module, 2 channels, 16 bits	UR20-2AO-UI-16	1	**2705630000**
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	**1483050000**
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swivel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Replacement parts			
Electronic module	UR20-EM-2705630000-SP	1	**2777420000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-2705630000-SP	5	**2777410000**
Note			

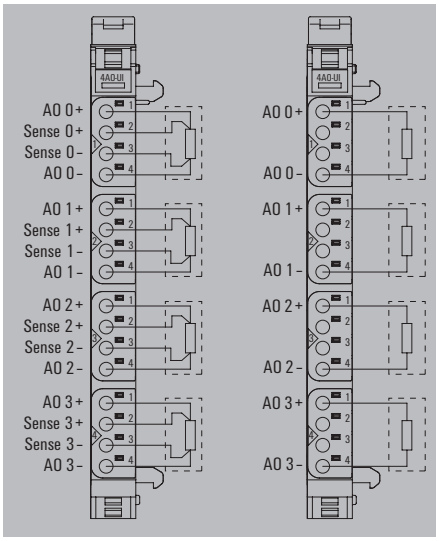
4AO-UI-16

- 4 analogue outputs
- Outputs can be parameterised by channel (voltage, current)
- 16-bit resolution
- 2- and 4-wire connection
- Accuracy typ. 0.05% FSR
- Replacement values can be set per channel
- Reactionless
- Short-circuit-proof

UR20-4AO-UI-16

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	85 mA
Analogue outputs	
Number of analogue outputs	4
Output variable	Voltage (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±10 V, ±5 V), Current (0...20 mA or 4...20 mA)
Response time	1 ms / 4 channels
Resolution	16 Bit
Accuracy	±0,1 % FSR max., 0,05 % FSR typ.
load impedance voltage	> 1 kΩ (at >50 °C ambient temperature, max. total sensor current = 25 mA)
Load impedance current	< 600 Ω
Actuator connection	2-wire (automatic detection), 4-wire
Temperature coefficient	20 ppm voltage / 31 ppm current measurement / °K
Max. error between T min. and T max. in FSR	220 %
Monotonicity	Yes
Cross-talk between the channels in FSR	0.001 %
Repeat accuracy	< 1 mV eff.
Module diagnosis	Yes
Substitute values	Yes
General data	
Weight	87 g
Dimensions H x W x D	120 mm / 11.5 / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Analogue output module, 4 channels, 16 Bit	UR20-4AO-UI-16	1	1315680000
Note			

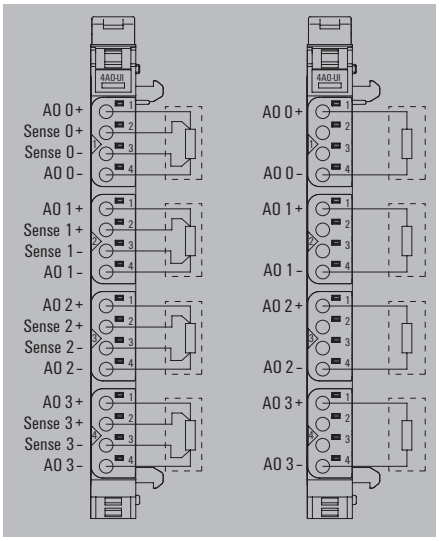
Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315680000-SP	1	1347270000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315680000-SP	5	1484070000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

4AO-UI-16-M

- 4 analogue outputs
- Outputs can be parameterised by channel (voltage, current)
- 16-bit resolution
- 2- and 4-wire connection
- Accuracy typ. 0.05% FSR
- Replacement values can be set per channel
- Reactionless
- Short-circuit-proof

UR20-4AO-UI-16-M



Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	DC 500 V between current paths
Supply	
Voltage supply	24 V DC +30 %/ -25 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	85 mA
Analogue outputs	
Number of analogue outputs	4
Output variable	Voltage (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±10 V, ±5 V), Current (0...20 mA or 4...20 mA)
Response time	1 ms / 4 channels
Resolution	16 Bit
Accuracy	±0,1 % FSR max., 0,05 % FSR typ.
load impedance voltage	> 1 kΩ (at >50 °C ambient temperature, max. total sensor current = 25 mA)
Load impedance current	< 600 Ω
Actuator connection	2-wire (automatic detection), 4-wire
Temperature coefficient	20 ppm voltage / 31 ppm current measurement / °K
Max. error between T min. and T max. in FSR	220 %
Monotonicity	Yes
Cross-talk between the channels in FSR	0.001 %
Repeat accuracy	< 1 mV eff.
Module diagnosis	Yes
Substitute values	Yes
General data	
Weight	94 g
Dimensions H x W x D	120 mm / 11.5 / 76 mm
Note	

Ordering data

Module variants	Type	Qty.	Order No.
Analogue output module, 4 channels, 16 Bit	UR20-4AO-UI-16-M	1	2453880000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-2453880000-SP	1	2508790000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-2453880000-SP	5	2508770000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

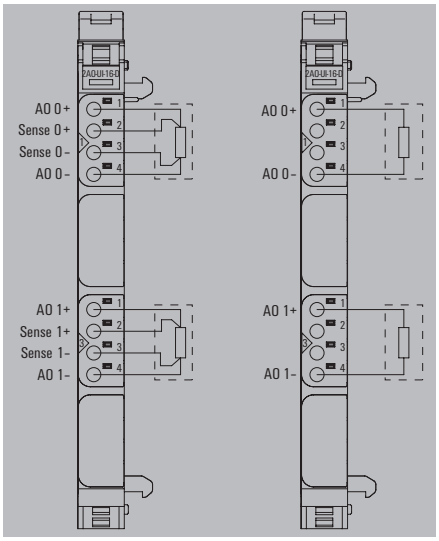
2AO-UI-16-DIAG

- 2 analogue outputs
- Outputs can be parameterised by channel (voltage, current)
- 16-bit resolution
- Extended diagnostic function
- 2- and 4-wire connection
- Short-circuit-proof

UR20-2AO-UI-16-DIAG

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	110 mA
Analogue outputs	
Number of analogue outputs	2
Output variable	Voltage (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±10 V, ±5 V), Current (0...20 mA or 4...20 mA)
Response time	1 ms / 2 channels
Resolution	16 Bit
Accuracy	±0,1 % FSR max., 0,05 % FSR typ.
load impedance voltage	> 1 kΩ (at >50 °C ambient temperature, max. total sensor current = 25 mA)
Load impedance current	< 600 Ω
Actuator connection	2-wire (automatic detection), 4-wire
Temperature coefficient	30 ppm/K
Max. error between T min. and T max. in FSR	0.24 %
Monotonicity	Yes
Cross-talk between the channels in FSR	0.001 %
Repeat accuracy	< 1 mV eff.
Module diagnosis	Yes
Substitute values	Yes
General data	
Weight	83 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Qty.	Order No.
Analogue ouput module, 2 channels, 16 bits, diagnosis functions	1	2566100000
Note		

Accessories

	Qty.	Order No.
Coding elements	100	1483050000
Termination kit	5	1346610000
Swievel marker	20	1339920000
Connection marker for pusher custom printing	192	1323700000
Connection marker for pusher neutral	960	1323710000
Module marker for custom printing	100	1341610000
Module marker for neutral	500	1341630000
Thermotransfer version (Material: Polyester)	1	1429910000
Thermotransfer version (material: polyester)	1	1429420000
Paper version for Laserprinter	10	1429430000
Replacement parts		
Electronic module	1	2568380000
Basic module	5	1350930000
Plug-in connector unit	5	2568340000
Note		

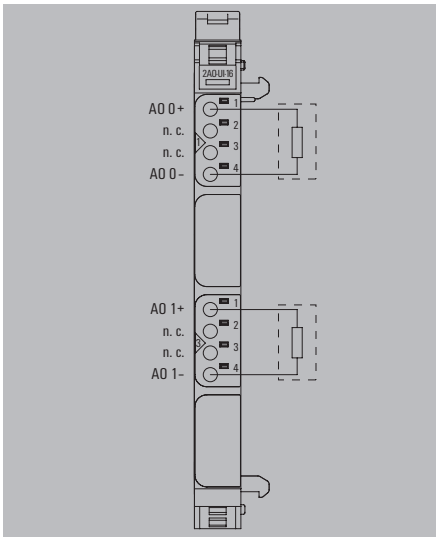
2AO-UI-ISO-16-DIAG

- 2 analogue outputs
- Outputs can be parameterised by channel (voltage, current)
- Insulation up to 500 V
- 16-bit resolution
- Extended diagnostic function
- 2- and 4-wire connection
- Short-circuit-proof

UR20-2AO-UI-ISO-16-DIAG

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	110 mA
Analogue outputs	
Number of analogue outputs	2
Output variable	Voltage (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±10 V, ±5 V), Current (0...20 mA or 4...20 mA)
Response time	1 ms / 2 channels
Resolution	16 Bit
Accuracy	±0,1 % FSR max., 0,05 % FSR typ.
load impedance voltage	≥ 1 kΩ
Load impedance current	< 600 Ω
Actuator connection	2-wire
Temperature coefficient	30 ppm/K
Max. error between T min. and T max. in FSR	0.24 %
Monotonicity	Yes
Cross-talk between the channels in FSR	0.001 %
Repeat accuracy	< 1 mV eff.
Module diagnosis	Yes
Substitute values	Yes
General data	
Weight	85 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Analogue ouput module, 2 channels, 16 bits, diagnosis functions	UR20-2AO-UI-ISO-16-DIAG	1	2566970000
Note			

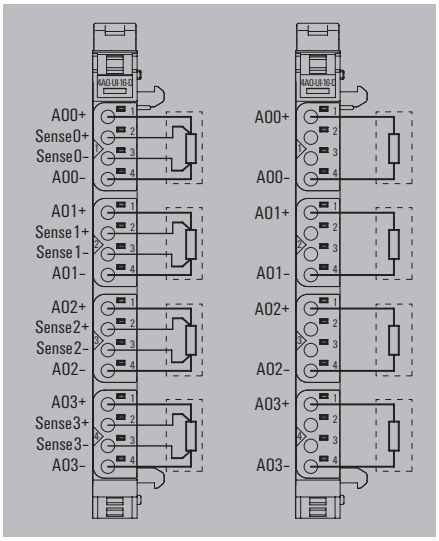
Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-2566970000-SP	1	2568370000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-2566970000-SP	5	2568330000
Note			

4AO-UI-16-DIAG

- 4 analogue outputs
- Outputs can be parameterised by channel (voltage, current)
- 16-bit resolution
- Extended diagnostic function
- 2- and 4-wire connection
- Accuracy typ. 0.05% FSR
- Replacement values can be set per channel
- Reactionless
- Short-circuit-proof

UR20-4AO-UI-16-DIAG



Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	85 mA
Analogue outputs	
Number of analogue outputs	4
Output variable	Voltage (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±10 V, ±5 V), Current (0...20 mA or 4...20 mA)
Response time	1 ms / 4 channels
Resolution	16 Bit
Accuracy	±0,1 % FSR max., 0,05 % FSR typ.
load impedance voltage	> 1 kΩ (at >50 °C ambient temperature, max. total sensor current = 25 mA)
Load impedance current	< 600 Ω
Actuator connection	2-wire (automatic detection), 4-wire
Temperature coefficient	20 ppm voltage / 31 ppm current measurement / °K
Max. error between T min. and T max. in FSR	220 %
Monotonicity	Yes
Cross-talk between the channels in FSR	0.001 %
Repeat accuracy	< 1 mV eff.
Module diagnosis	Yes
Individual channel diagnosis	Yes
Substitute values	Yes
General data	
Weight	86 g
Dimensions H x W x D	120 mm / 11.5 / 76 mm
Note	

Ordering data

Module variants	Qty.	Order No.
Analogue output module, 4 channels, 16 Bits, diagnosis functions	1	**1315730000**
Note		

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	**1483050000**
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swievel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Replacement parts			
Electronic module	UR20-EM-1315730000-SP	1	**1347330000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315730000-SP	5	**1518880000**
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

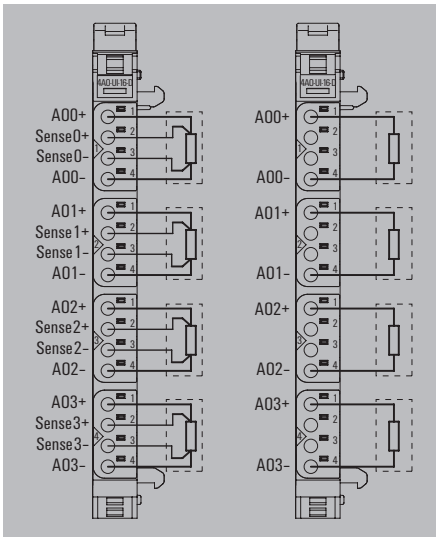
4AO-UI-16-M-DIAG

- 4 analogue outputs
- Outputs can be parameterised by channel (voltage, current)
- 16-bit resolution
- Extended diagnostic function
- 2- and 4-wire connection
- Accuracy typ. 0.05% FSR
- Replacement values can be set per channel

UR20-4AO-UI-16-M-DIAG

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	DC 500 V between current paths
Supply	
Voltage supply	24 V DC +30 %/ -25 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	85 mA
Analogue outputs	
Number of analogue outputs	4
Output variable	Voltage (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±10 V, ±5 V), Current (0...20 mA or 4...20 mA)
Response time	1 ms / 4 channels
Resolution	16 Bit
Accuracy	±0,1 % FSR max., 0,05 % FSR typ.
load impedance voltage	> 1 kΩ (at >50 °C ambient temperature, max. total sensor current = 25 mA)
Load impedance current	< 600 Ω
Actuator connection	2-wire (automatic detection), 4-wire
Temperature coefficient	20 ppm voltage / 31 ppm current measurement / °K
Max. error between T min. and T max. in FSR	220 %
Monotonicity	Yes
Cross-talk between the channels in FSR	0.001 %
Repeat accuracy	< 1 mV eff.
Module diagnosis	Yes
Individual channel diagnosis	Yes
Substitute values	Yes
General data	
Weight	94 g
Dimensions H x W x D	120 mm / 11.5 / 76 mm
Note	



Ordering data

Module variants	Qty.	Order No.
Analogue output module, 4 channels, 16 Bits, diagnosis functions	1	**2453870000**
Note		

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	**1483050000**
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swievel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Replacement parts			
Electronic module	UR20-EM-2453870000-SP	1	**2508800000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-2453870000-SP	5	**2508780000**
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

4AO-UI-16-HD

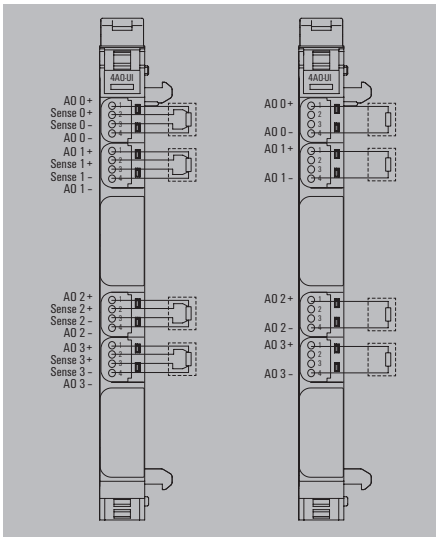
- 4 analogue outputs
- Outputs can be parameterised by channel (voltage, current)
- 16-bit resolution
- 2- and 4-wire connection
- Accuracy typ. 0.05 % FSR
- Replacement values can be set per channel
- Non reactive

UR20-4AO-UI-16-HD

Note: Please order connector separately

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	85 mA
Analogue outputs	
Number of analogue outputs	4
Output variable	Voltage (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±10 V, ±5 V), Current (0...20 mA or 4...20 mA)
Response time	1 ms / 4 channels
Resolution	16 Bit
Accuracy	±0,1 % FSR max., 0,05 % FSR typ.
load impedance voltage	> 1 kΩ (at >50 °C ambient temperature, max. total sensor current = 25 mA)
Load impedance current	< 600 Ω
Actuator connection	2-wire (current and voltage), 3- and 4-wire (voltage), 2-wire (automatic detection)
Temperature coefficient	20 ppm voltage / 31 ppm current measurement / °K
Max. error between T min. and T max. in FSR	220 %
Monotonicity	Yes
Cross-talk between the channels in FSR	0.001 %
Repeat accuracy	< 1 mV eff.
Module diagnosis	Yes
Individual channel diagnosis	No
Substitute values	Yes
General data	
Weight	72 g
Dimensions H x W x D	120 mm / 11.5 / 76 mm
Note	



Ordering data

Module variants	Qty.	Order No.
Analogue output module, 4 channels, 16 Bits, HD-plug	1	**1510690000**
Note		

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	**1483050000**
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swievel marker	UR20-SM-ACC	20	**1339920000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Connector and tools			
*3) HD plug	UR20-PG0.35	8	**1469340000**
*4) Stripping tool	MULTI-STRIPAX 6-16	1	**9202210000**
*5) Pressing tool	PWZ-UR20-HD	1	**1525820000**
Replacement parts			
Electronic module	UR20-EM-1510690000-SP	1	**1515470000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1510690000-SP	5	**1531830000**
Note	Note: please order plug (1469340000) separately.		

Digital counter and communication modules

100/ 500 kHz; 32-Bit Counter data width, CANopen® and IO-Link communication

In automated systems, it is impossible to imagine industry without the collection of incremental- and absolut encoder values. Developed specifically for these applications Weidmüller now offers several counter modules that can take values with an input frequency of up to 500 kHz. By the syncronous-serial Interface module (SSI) high-precision positioning can be realized with absolute encoders. For the frequency measurement up to 100 kHz a module with pulse input is available, the UR20-1CNT-500 module has an input that can detect frequencies up to 500 kHz. The UR20-2CNT-100 module has two independent counter inputs and is supplemented by the module UR20-1CNT-100-1DO with only one counter, but additional options. A Latch-, Gate- and Reset input allows external control of the counter. In addition, a digital output can trigger an immediate event, when there are compared values set.

The modules UR20-1COM-232-485-422 and UR20-1COM-232-485-422-V2 with Modbus RTU Master functionality offer expanded communication possibilities, devices with RS232, RS485 or RS422 interface can be operated efficiently on u-remote. A solution for the connection from the cabinet to the field represents the module UR20-1COM-SAI-PRO. At this gateway up to 15 decentralised IP67 SAI-PRO sub-bus modules can be integrated per u-remote module.

The digital communication module UR20-4COM-IO-LINK is an IO-Link master in compliance with IO-Link specification V1.1.2. An IO-Link device can be connected to each of the plug connectors.

The CANopen® manager module with web-based configurator offers simple integration of up to 16 CANopen® devices. The module has an galvanically isolated CAN interface and can work in the 4 operating modes Manager, Device, Transparent and Listen-Only.

Digital counter modules

UR20-1CNT-100-1DO

UR20-2CNT-100

UR20-1CNT-500

UR20-2FCNT-100

Communication modules

UR20-1SSI

UR20-1COM-232-485-422

UR20-1COM-232-485-422-V2

UR20-1COM-SAI-PRO

UR20-4COM-IO-LINK

UR20-1COM-CANOPEN

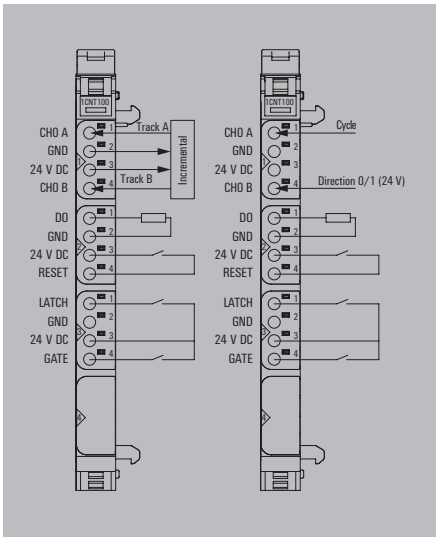
1CNT-100-1DO

- Removable terminals Latch-, Gate- and Reset input
- Maximum input frequency 100 kHz
- One digital output
- Counter data width 32-Bit
- Operation mode impulse, direction, 1-, 2- or 4-times
- Sensor feed
- Input filter adjustable up to 1 ms

UR20-1CNT-100-1DO

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	35 mA (plus output current)
Digital inputs	
Number	1
Input type	for Type 1 and Type 3 sensors as per IEC 61131-2
Input filter	configurable
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	Yes
Sensor connection	2-wire, 3-wire
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
Max. input current per channel	3.5
Counter width	32
Max. input frequency	100 kHz
Latch, gate, reset input	Yes
Mode of operation	Pulse, Direction, 1-, 2-, 4-times
General data	
Weight	85 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital counter module, 1 channel, 100 kHz	UR20-1CNT-100-1DO	1	1315570000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315570000-SP	1	1347140000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315570000-SP	5	1346520000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

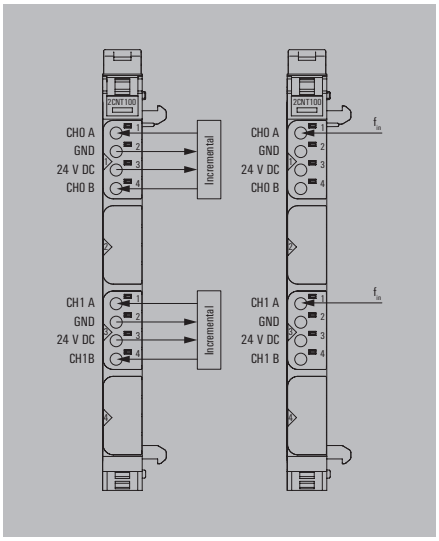
2CNT-100

- Counter data width 32-Bit
- Maximum input frequency 100 kHz
- Operation mode impulse, direction, 1-, 2- or 4-times
- Sensor feed
- Input filter adjustable up to 1 ms

UR20-2CNT-100

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	35 mA (plus output current)
Digital inputs	
Number	2
Input type	for Type 1 and Type 3 sensors as per IEC 61131-2
Input filter	configurable
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	Yes
Sensor connection	2-wire, 3-wire
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
Max. input current per channel	3.5
Counter width	32
Max. input frequency	100 kHz
Mode of operation	Pulse, Direction, 1-, 2-, 4-times
General data	
Weight	85 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital counter module, 2 channel, 100 kHz	UR20-2CNT-100	1	1315590000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315590000-SP	1	1347150000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315590000-SP	5	1346540000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

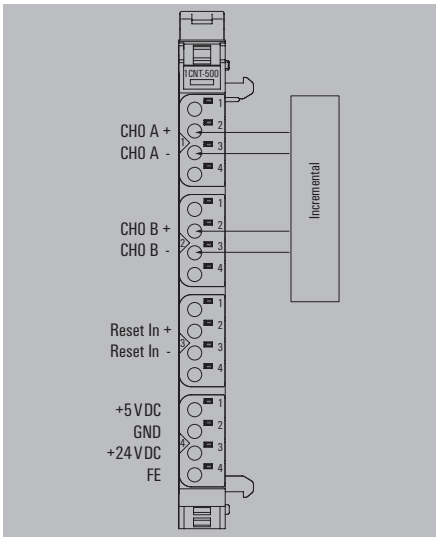
1CNT-500

- Counter data width 32-Bit
- Maximum input frequency 500 kHz
- One digital output
- Operation mode impulse, direction, 1-, 2- or 4-times
- Sensor feed
- Input filter adjustable up to 1 ms

UR20-1CNT-500

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	< 20 mA
Digital inputs	
Number	1
Input filter	configurable
Sensor supply	Yes
Short-circuit-proof	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Counter width	32 Bit
Max. input frequency	500 kHz
Mode of operation	Pulse, Direction, 1-, 2-, 4-times
General data	
Weight	87.6 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital counter module, 1 channel, 500 kHz	UR20-1CNT-500	1	1315580000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315580000-SP	1	1347170000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315580000-SP	5	1346530000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

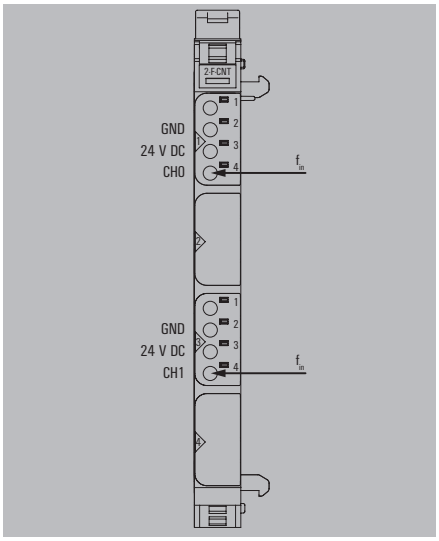
2FCNT-100

- Counter data width 32-Bit
- Maximum input frequency 100 kHz
- Operation mode impulse
- Sensor feed
- Input filter adjustable up to 1 ms

UR20-2FCNT-100

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	35 mA (plus output current)
Digital inputs	
Number	2
Input filter	configurable
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	Yes
Sensor connection	2-wire, 3-wire
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	No
Max. input current per channel	3.5 mA
Counter width	32 Bit
Max. input frequency	100 kHz
Mode of operation	Pulse
General data	
Weight	65 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital frequency counter module, 2 channel, 100 kHz	UR20-2FCNT-100	1	1508080000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1508080000-SP	1	1515440000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1508080000-SP	5	1518840000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

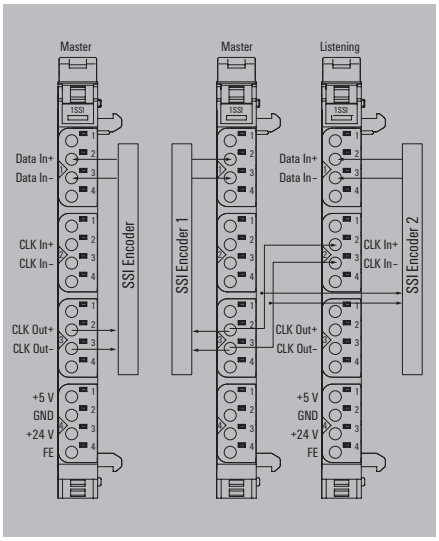
1SSI

- Parameterised transfer rate
- Listening- or Master-Mode
- Data width 8 ... 32 bits
- Adjustable delay time

UR20-1SSI

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	25 mA + sensor feed
Serial inputs	
Number of serial interfaces	1
Data format	Binary, Gray-Code
SSI mode	Listening, Master
Sensor supply	Yes
Reverse polarity protection	Yes
Module diagnosis of serial interfaces available	Yes
Individual channel diagnosis of serial interfaces available	No
Cable length	max. 320 m at 125 kHz
General data	
Weight	87 g
Dimensions H x W x D	120 mm / 11.5 / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
SSI Module 1 channel, 8 - 32 Bit	UR20-1SSI	1	1508090000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1508090000-SP	1	1515490000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1508090000-SP	5	1559870000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

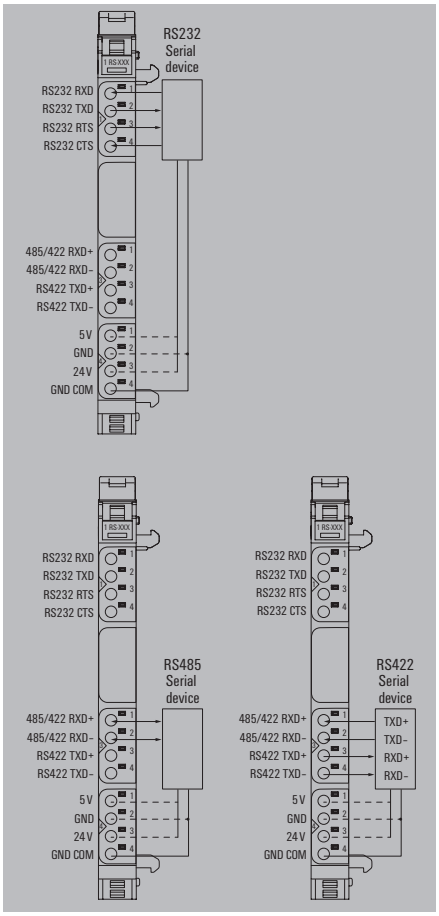
1COM-232-485-422

- Interface for RS232, RS485 and RS422 peripherals
- Adjustable transfer rate
- Galvanic isolation of the signals in the module
- Separate power supply for external peripheral to the module

UR20-1COM-232-485-422

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	16 mA + load
RS interface	
Number of RS interfaces	1
Connection type of RS interfaces	RS232, RS422, RS485
Transmission rate of RS interfaces, min./max.	300...115200 bit/s
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Output current, supply voltage	max. 500 mA
Standards RS232	DIN 66020, DIN 66259, EIA-RS 232C, CCITT V.24/V.28
Standards RS485/422	DIN 66259 Part 1 und 3, EIA-RS 422/485, CCITT V.11
Short-circuit-proof of RS interfaces	Yes
Module diagnosis of RS interfaces available	Yes
Individual channel diagnosis of RS interfaces available	Yes
General data	
Weight	87.03 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Qty.	Order No.
RS232/RS485/RS422 communication module	1	1315750000
Note		

Accessories

	Qty.	Order No.
Coding elements	100	1483050000
Termination kit	5	1346610000
Swivel marker	20	1339920000
Connection marker for pusher custom printing	192	1323700000
Connection marker for pusher neutral	960	1323710000
Module marker for custom printing	100	1341610000
Module marker for neutral	500	1341630000
Thermotransfer version (Material: Polyester)	1	1429910000
Thermotransfer version (material: polyester)	1	1429420000
Paper version for Laserprinter	10	1429430000
Replacement parts		
Electronic module	1	1347350000
Basic module	5	1350930000
Plug-in connector unit	5	2425150000
Note		

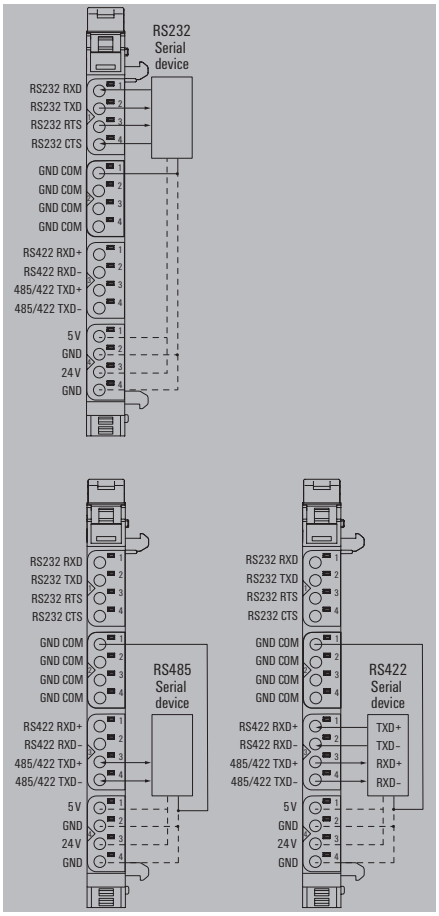
1COM-232-485-422-V2

- Interface for RS232, RS485 and RS422 peripherals
- Adjustable transfer rate
- Galvanic isolation of the signals in the module
- Separate power supply for external peripheral to the module
- Modbus RTU Master
- DMX512

UR20-1COM-232-485-422-V2

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	16 mA + load
RS interface	
Number of RS interfaces	1
Connection type of RS interfaces	RS232, RS422, RS485
Transmission rate of RS interfaces, min./max.	300...230400 Bit/s
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Output current, supply voltage	max. 400 mA
Standards RS232	DIN 66020, DIN 66259, EIA-RS 232C, CCITT V.24/V.28
Standards RS485/422	DIN 66259 Part 1 und 3, EIA-RS 422/485, CCITT V.11
Short-circuit-proof of RS interfaces	Yes
Module diagnosis of RS interfaces available	Yes
Individual channel diagnosis of RS interfaces available	Yes
General data	
Weight	89 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
RS232/RS485/RS422 communication module	UR20-1COM-232-485-422-V2	1	**2826800000**
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	**1483050000**
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swivel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Replacement parts			
Electronic module	UR20-EM-2826800000-SP	1	**2826860000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-2826800000-SP	5	**2826870000**
Note			

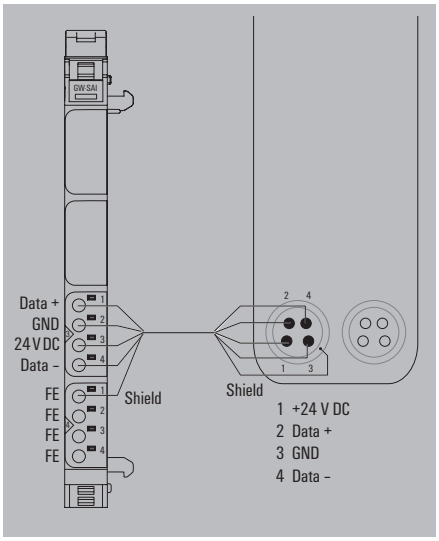
1COM-SAI-PRO

- 15 SAI-PRO modules connectable
- Max. 50 m Subbus wire length
- Continuous diagnostics IP20-IP67
- Representation of SAI-PRO modules in web server

UR20-1COM-SAI-PRO

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	17 mA + SAI supply current
IP67 interface	
Number of data interfaces to IP67 modules	1
Transmission rate of data interfaces to IP67 module configurable	Yes
Transmission rate of data interfaces to IP67 modules	250
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Output current, supply voltage	2.5 A
Short-circuit-proof of data interfaces to IP67 modules	Yes
Module diagnosis of data interfaces to IP67 modules available	Yes
Individual channel diagnosis of data interfaces to IP67 modules available	Yes
General data	
Weight	80.97 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
IP20-IP67 communication module	UR20-1COM-SAI-PRO	1	2007430000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-2007430000-SP	1	2425350000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-2007430000-SP	5	2425160000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

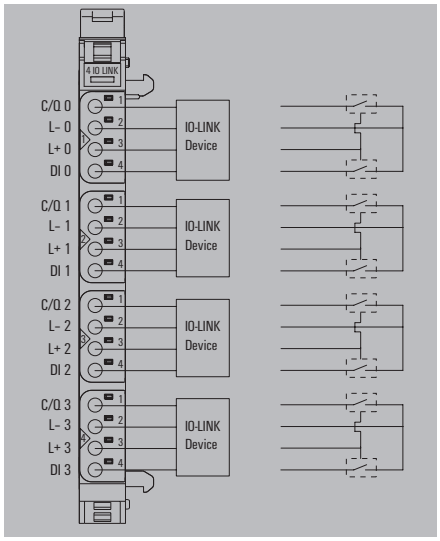
4COM-IO-LINK

- Connection for 4 IO-Link devices
- IO-Link standard according to IEC 61131-9
- Protocol support IO-Link specification V1.1.2
- Automatic communication via COM 1, COM 2 and COM 3
- Max. 20 m wire length
- Internal data width 4-32 bytes, configurable
- u-mation configurator software for configuration and monitoring

UR20-4COM-IO-LINK

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	25 mA + sensor feed
IO-Link interface	
Number of IO-Link interfaces	4
Connection type	IO-Link
Output current	0.1 A C/Q (DO MODE), 0.5 A L+
IO link standard	IO-Link V1.1.2
Short-circuit-proof	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
Class	A
Digital inputs	
Type	Types 1 and 3, EN 61131-2
Input voltage, low	<5 V
Input voltage, high	> 11 V
General data	
Weight	87.62 g
Dimensions H x W x D	120 / 11.5 / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Digital communication module, 4 channels	UR20-4COM-IO-LINK	1	**1315740000**
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	**1483050000**
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swivel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Replacement parts			
Electronic module	UR20-EM-1315740000-SP	1	**1347340000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315740000-SP	5	**2508760000**
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

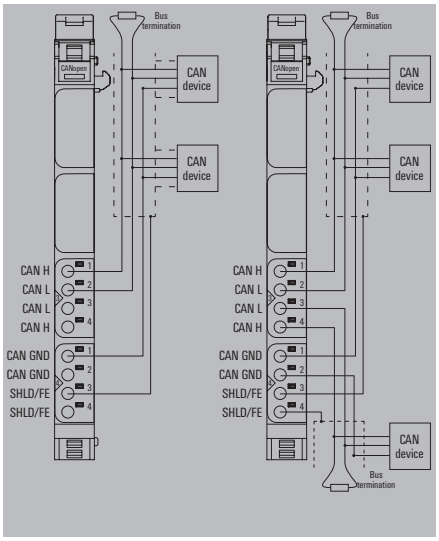
1COM-CANOPEN

- NMT master for up to 16 CANopen devices
- CANopen standard according to CiA DS-301 based on ISO 11898
- Selectable operating modes: CANopen Manager, CANopen Device, Transparent, Listen-Only
- u-mation configurator software for network configuration and monitoring
- Switchable terminating resistor (120 Ω) for flexible network architecture

UR20-1COM-CANOPEN

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption I_{IN} (the respective power segment)	30 mA
CANopen interface	
Number	1
Transmission rate	10 / 20 / 50 / 100 / 125 / 250 / 500 / 800 / 1000 kBit/s / Auto baud rate (only device mode)
Type	1x CANopen, CANopen according to CiA DS-301 on the basis of ISO 11898, parametrisable
Module diagnosis	Yes
Individual channel diagnosis	Yes
General data	
Weight	89 g
Dimensions H x W x D	120 / 11.5 / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
	UR20-1COM-CANOPEN	1	**2489840000**
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	**1483050000**
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swievel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Replacement parts			
Electronic module	UR20-EM-2489840000-SP	1	**2702550000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-2489840000-SP	5	**2702530000**
Note			

Safe I/O modules and safe power-feed modules

PROFIsafe/FSoE, PLe, Kat. 4/SIL 3, OSSD-output, wire breakage and short-circuit detection

Safety technology is of central importance in the automation industry and machine construction. When attempting to reduce risks and avoid putting people and the machine in danger, you need solutions which satisfy stringent requirements and statutory specifications.

Weidmüller PROFIsafe and Fail-Safe-over-EtherCAT modules (IEC 61784-3 respectively IEC 61784-3-3) are providing variable parameterization possibilities and because of this a very high flexibility and adaptability to your application. Due to the standards a use in existing systems is straightforward. The safe I/O-modules with PROFIsafe or FSoE are available with digital in- and outputs.

The safe power-feed modules of the u-remote system have key features such as emergency stop circuits and wire breakage/ short-circuit detection. They satisfy all SIL 3 requirements according to IEC 62061 and EN ISO 13849-1, Category 4, PLe and support the safe operation of your system.

By safely shutting down the downstream output modules, the safety modules attain maximum safety with optimum control. All input sensors are independently supplied via separate voltage paths and report the current machine status to the control unit. The restart is either performed in manual mode or using the autostart function.

Safe I/O- and safe power-feed modules from Weidmüller also cut maintenance and service times and improve your response times in an emergency – thanks to a concept of maximum transparency, e.g. using OSSD output.

The module electronics supply the connected actuators from the output current path (U_{OUT}).

UR20-4DI-4DO-PN-FSOE-V2

UR20-8DI-PN-FSOE-V2

UR20-4DI-4DO-PN-FSPS-V2

UR20-8DI-PN-FSPS-V2

UR20-PF-O-1DI-SIL

UR20-PF-O-2DI-SIL

UR20-PF-O-2DI-DELAY-SIL

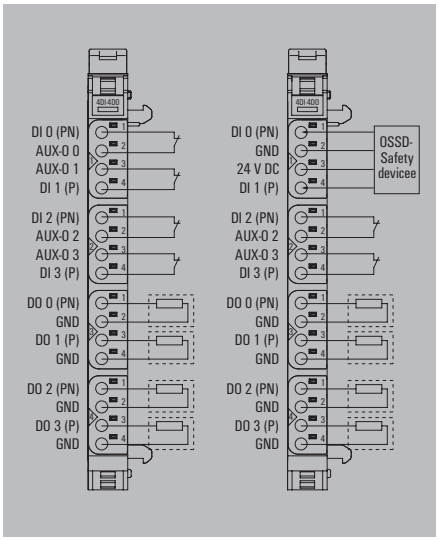
4DI-4DO-PN-FSOE-V2

- FailSafe over EtherCAT
- 4 digital inputs, two of them are parametrisable P- or N-switching
- 4 digital outputs, two of them are parametrisable P- or N-switching
- Constant current with thermal switch-off

UR20-4DI-4DO-PN-FSOE-V2

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	30 mA
Safety related data	
Achievable safety level, inputs / outputs	SIL 3 (IEC 61508), SILCL 3 (IEC 62061), PIe, category 4 (DIN EN ISO 13849-1) / architecture 1oo2 (2 channels)
Level of diagnostic coverage DC_{AVG} (IEC 62061)	Input: 0.921, output: 0.969
Level of diagnostic coverage (DIN EN ISO 13849)	Input, single-channel wiring: 90%; dual-channel wiring: 99%
PFH (probability of failure per hour in 1/h), inputs	Single-channel circuit 1oo1: 10^{-8}, Dual-channel circuit 1oo2: $2{,}17*10^{-10}$
Proportion of safety-related outages (SFF)	98 %
HFT (hardware fault tolerance), inputs	Single-channel circuit 1oo1: 0, Dual-channel circuit 1oo2: 1
HFT (hardware fault tolerance), outputs	1
Inputs	
Number	4
Input filter	configurable
Input voltage, low / high	< 5 V / > 11 V
Reverse polarity protection	Yes
Outputs	
Number	4
Output current per channel, max. / Output current per module, max.	0.5 A / 2 A
Actuator connection	2-wire
Short-circuit-proof	Yes
Response time of the protective circuit (current limiting)	< 100µs
General data	
Weight	90.2 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	
Safety module FSOE, 4 digital inputs/outputs	
Note	

Type	Qty.	Order No.
UR20-4DI-4DO-PN-FSOE-V2	1	**2464580000**
For this and additional technical data, please refer to the manual available at www.weidmueller.de.		

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	**1483050000**
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swievel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Replacement parts			
Electronic module	UR20-EM-2464580000-SP	1	**2466020000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-2464580000-SP	5	**2465990000**
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

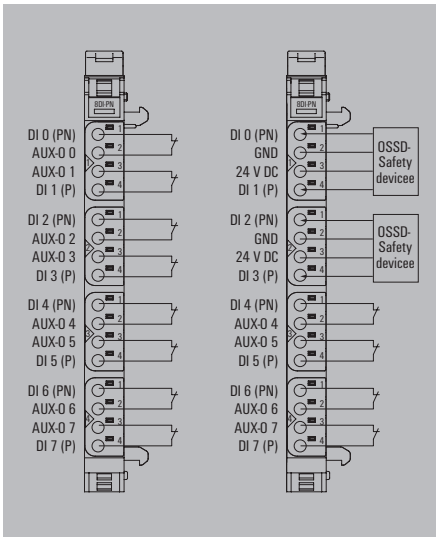
8DI-PN-FSOE-V2

- FailSafe over EtherCAT
- 8 digital inputs, four of them are parametrisable P- or N-switching
- 2-wire, 3-wire, 4-wire connection

UR20-8DI-PN-FSOE-V2

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Safety related data	
Achievable safety level, inputs / Achievable safety level, inputs	Single-channel circuit 1oo1: SILCL 2, Dual-channel circuit 1oo2: SILCL 3 / PLd, category 2 (DIN EN ISO 13849-1) / architecture 1oo1 (1 channel), PIe, category 4 (DIN EN ISO 13849-1) / architecture 1oo2 (2 channels)
PFH (probability of failure per hour in 1/h), inputs	Single-channel circuit 1oo1: 10^{-8}, Dual-channel circuit 1oo2: $2{,}17*10^{-10}$
Proportion of safety-related outages (SFF)	98 %
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	30 mA
Inputs	
Number	8
Input type	Type 1 in acc. with IEC 61131-2, Type 3 in acc. with IEC 61131-2
Input filter	configurable
Input voltage, low	<5 V
Input voltage, high	> 11 V
Sensor supply	Yes
Sensor connection	2-wire, 3-wire, 4-wire
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
General data	
Weight	89.69 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants		
Safety module FSOE, 8 digital inputs		
Note		

Type	Qty.	Order No.
UR20-8DI-PN-FSOE-V2	1	**2464600000**
For this and additional technical data, please refer to the manual available at www.weidmueller.de.		

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	**1483050000**
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swivel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Replacement parts			
Electronic module	UR20-EM-2464600000-SP	1	**2465960000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-2464600000-SP	5	**2465940000**
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

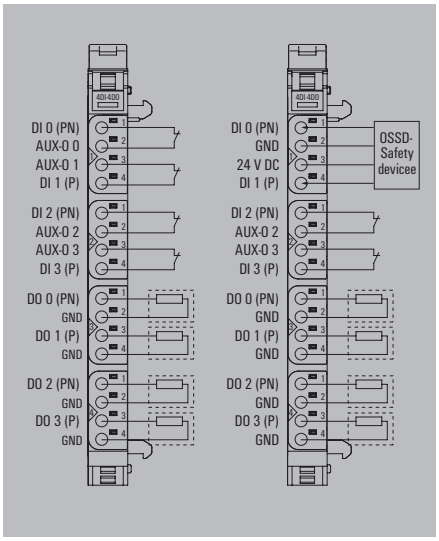
4DI-4DO-PN-FSPS-V2

- PROFIsafe
- 4 digital inputs, two of them are parametrisable P- or N-switching
- 4 digital outputs, two of them are parametrisable P- or N-switching
- Constant current with thermal switch-off

UR20-4DI-4DO-PN-FSPS-V2

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Safety related data	
Achievable safety level, inputs / outputs	SIL 3 (IEC 61508), SILCL 3 (IEC 62061), Ple, category 4 (DIN EN ISO 13849-1) / architecture 1oo2 (2 channels)
Level of diagnostic coverage DC_{AVG} (IEC 62061)	Input: 0.921, output: 0.969
Level of diagnostic coverage (DIN EN ISO 13849)	Input, single-channel wiring: 90%; dual-channel wiring: 99%
PFH (probability of failure per hour in 1/h), inputs	Single-channel circuit 1oo1: 10^{-8}, Dual-channel circuit 1oo2: $2{,}17*10^{-10}$
Proportion of safety-related outages (SFF)	98 %
HFT (hardware fault tolerance), inputs	Single-channel circuit 1oo1: 0, Dual-channel circuit 1oo2: 1
HFT (hardware fault tolerance), outputs	1
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	30 mA
Inputs	
Number	4
Input filter	configurable
Input voltage, low / high	< 5 V / > 11 V
Reverse polarity protection	Yes
Outputs	
Number	4
Output current per channel, max. / Output current per module, max.	0.5 A / 2 A
Actuator connection	2-wire
Short-circuit-proof	Yes
Response time of the protective circuit (current limiting)	< 100µs
General data	
Weight	89.7 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Safety module PROFIsafe, 4 digital inputs/outputs	UR20-4DI-4DO-PN-FSPS-V2	1	2464570000
Note	For this and additional technical data, please refer to the manual available at www.weidmueller.de.		

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-2464570000-SP	1	2466030000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-2464570000-SP	5	2466000000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

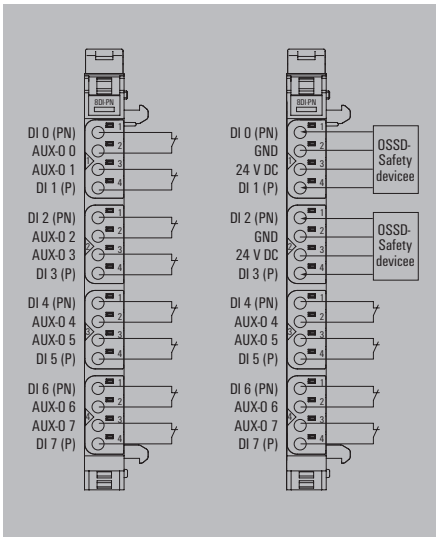
8DI-PN-FSPS-V2

- PROFIsafe
- 8 digital inputs, four of them are parametrisable P- or N-switching
- 2-wire, 3-wire, 4-wire connection

UR20-8DI-PN-FSPS-V2

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Galvanic isolation	500 V DC between the current paths
Safety related data	
Achievable safety level, inputs / Achievable safety level, inputs	Single-channel circuit 1oo1: SILCL 2, Dual-channel circuit 1oo2: SILCL 3 / PLd, category 2 (DIN EN ISO 13849-1) / architecture 1oo1 (1 channel), PIe, category 4 (DIN EN ISO 13849-1) / architecture 1oo2 (2 channels)
PFH (probability of failure per hour in 1/h), inputs	Single-channel circuit 1oo1: 10^{-8}, Dual-channel circuit 1oo2: $2{,}17*10^{-10}$
Proportion of safety-related outages (SFF)	98 %
Supply	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Current consumption from I_{OUT} (the respective power segment)	30 mA
Inputs	
Number	8
Input type	Type 1 in acc. with IEC 61131-2, Type 3 in acc. with IEC 61131-2
Input filter	configurable
Input voltage, low	<5 V
Input voltage, high	> 11 V
Sensor supply	Yes
Sensor connection	2-wire, 3-wire, 4-wire
Reverse polarity protection	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
General data	
Weight	88.82 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants		
Safety module PROFIsafe, 8 digital inputs		
Note		

Type	Qty.	Order No.
UR20-8DI-PN-FSPS-V2	1	2464590000
For this and additional technical data, please refer to the manual available at www.weidmueller.de.		

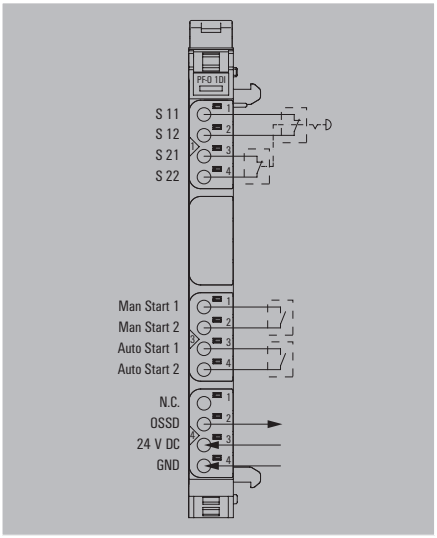
Accessories

Coding elements	100	1483050000
Termination kit	5	1346610000
Swivel marker	20	1339920000
Connection marker for pusher custom printing	192	1323700000
Connection marker for pusher neutral	960	1323710000
Module marker for custom printing	100	1341610000
Module marker for neutral	500	1341630000
Thermotransfer version (Material: Polyester)	1	1429910000
Thermotransfer version (material: polyester)	1	1429420000
Paper version for Laserprinter	10	1429430000
Replacement parts		
Electronic module	1	2466010000
Basic module	5	1350930000
Plug-in connector unit	5	2465950000
Note		
1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

PF-O-1DI-SIL

- SIL 3 safety standard in accordance with IEC 62061 and DIN EN ISO 13849-1, category 4, PL e
- Connection for an emergency stop circuit
- OSSD output reports status to control unit
- Pulsed input circuit for wire breakage and short-circuit detection
- Restart: manual or using autostart

UR20-PF-O-1DI-SIL



Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Safety related data	
Achievable safety level, inputs	SIL 3 (IEC 61508)
Proportion of safety-related outages (SFF)	98 %
HFT (hardware fault tolerance), inputs	1
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{OUT} (output current path) , max.	8050 mA
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Digital inputs	
Wire break detection	Yes
Short-circuit detection	Yes
General data	
Weight	108 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	

Ordering data

Module variants	Type	Qty.	Order No.
Safety module, 1 digital input	UR20-PF-O-1DI-SIL	1	1335030000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1335030000-SP	1	1347520000
Basic module	UR20-BM-PF-O-SIL-SP	5	1350970000
Plug-in connector unit	UR20-PK-1335030000-SP	5	1346560000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

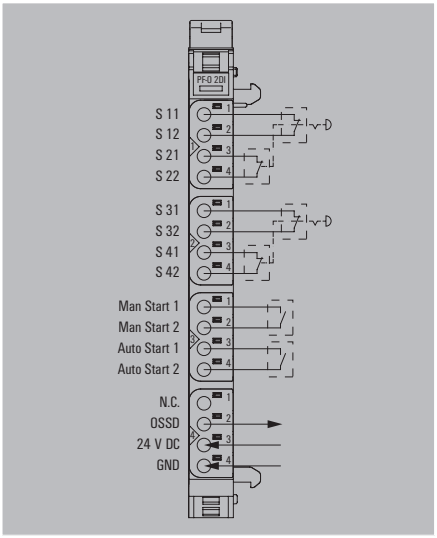
PF-O-2DI-SIL

- SIL 3 safety standard in accordance with IEC 62061 and DIN EN ISO 13849-1, category 4, PL e
- Connection for an emergency stop circuit
- OSSD output reports status to control unit
- Pulsed input circuit for wire breakage and short-circuit detection
- Restart: manual or using autostart

UR20-PF-O-2DI-SIL

Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Safety related data	
Achievable safety level, inputs	SIL 3 (IEC 61508)
Proportion of safety-related outages (SFF)	98 %
HFT (hardware fault tolerance), inputs	1
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{OUT} (output current path) , max.	8050
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Digital inputs	
Wire break detection	Yes
Short-circuit detection	Yes
General data	
Weight	82 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Safety module, 2 digital inputs	UR20-PF-O-2DI-SIL	1	1335050000
Note			

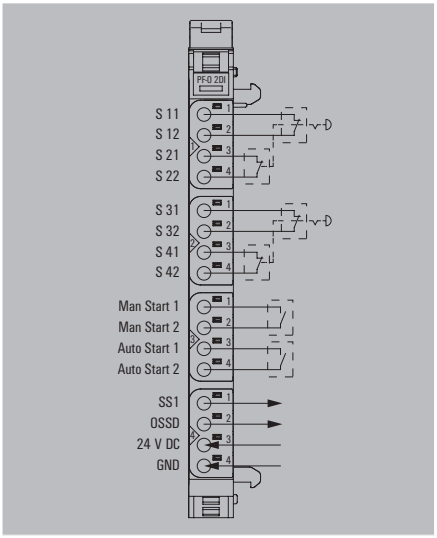
Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1335050000-SP	1	1347540000
Basic module	UR20-BM-PF-O-SIL-SP	5	1350970000
Plug-in connector unit	UR20-PK-1335050000-SP	5	1346570000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

PF-O-2DI-DELAY-SIL

- SIL 3 safety standard in accordance with IEC 62061 and DIN EN ISO 13849-1, category 4, PL e
- Switch-off after adjustable delay
- Connection for an emergency stop circuit
- OSSD output reports status to control unit
- Pulsed input circuit for wire breakage and short-circuit detection
- Restart: manual or using autostart

UR20-PF-O-2DI-DELAY-SIL



Technical data

System data	
Interface	u-remote system bus
Transmission speed of system bus, max.	48 Mbit
Safety related data	
Achievable safety level, inputs	SIL 3 (IEC 61508)
Proportion of safety-related outages (SFF)	98 %
HFT (hardware fault tolerance), inputs	1
Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{OUT} (output current path) , max.	8050
Current consumption I_{IN} (power segment of the field bus coupler), typ.	8 mA
Digital inputs	
Wire break detection	Yes
Short-circuit detection	Yes
General data	
Weight	101 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	

Ordering data

Module variants	Type	Qty.	Order No.
Safety module, 2 digital inputs, delayed	UR20-PF-O-2DI-DELAY-SIL	1	1335040000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1335040000-SP	1	1347530000
Basic module	UR20-BM-PF-O-SIL-SP	5	1350970000
Plug-in connector unit	UR20-PK-1335040000-SP	5	1484100000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

Power-feed modules

10 A feeding, input or output current path, diagnosis visualisation

Weidmüller power-feed modules are available to refresh the power of the input and output current path. These feed 10 A, monitored by the voltage diagnosis display, in the corresponding input or output path. The time-saving commissioning is guaranteed by the standard u-remote plug with proven and tested PUSH IN technology for reliable contacting. The power supply is monitored by a diagnosis display.

UR20-PF-I

UR20-PF-O

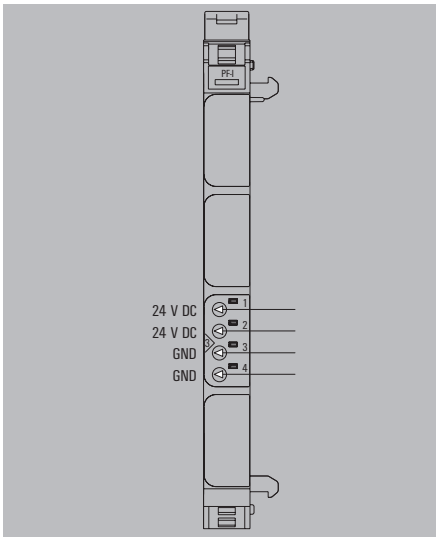
PF-I

- Power supply in input current path
- Power supply current 10 A
- Integrated diagnosis display

UR20-PF-I

Technical data

Supply	
Supply voltage for inputs	24 V DC +20 %/ -15 %
Feed current for I_{IN} (input current path) , max.	10000 mA
Current consumption I_{IN} (the respective power segment)	< 10 mA
General data	
Weight	76 g
Dimensions H x W x D	120 mm / 11.5 / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Power supply module, 10 A	UR20-PF-I	1	1334710000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1334710000-SP	1	1347380000
Basic module	UR20-BM-PF-I-SP	5	1350940000
Plug-in connector unit	UR20-PK-1334710000-SP	5	1346460000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

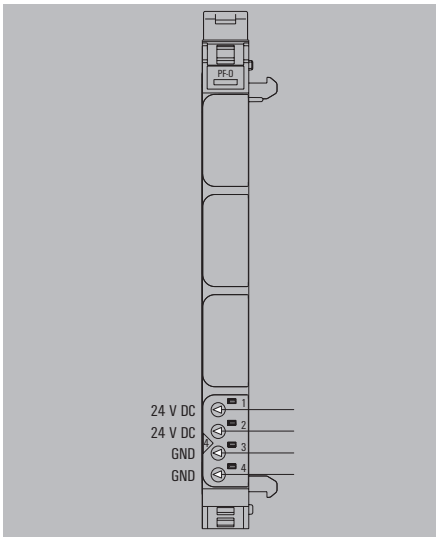
PF-O

- Power supply in output current path
- Power supply current 10 A
- Integrated diagnosis display

UR20-PF-O

Technical data

Supply	
Supply voltage for outputs	24 V DC +20 %/ -15 %
Feed current for I_{OUT} (output current path) , max.	10000 mA
Current consumption from I_{OUT} (the respective power segment)	< 10 mA
General data	
Weight	76 g
Dimensions H x W x D	120 mm / 11.5 / 76 mm
Note	



Ordering data

Module variants	Qty.	Order No.
Power supply module, 10 A	1	**1334740000**
Note		

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	**1483050000**
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swivel marker	UR20-SM-ACC	20	**1339920000**
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	**1429910000**
Thermotransfer version (material: polyester)	THM UR20 WS	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	**1429430000**
Replacement parts			
Electronic module	UR20-EM-1334740000-SP	1	**1347420000**
Basic module	UR20-BM-PF-O-SP	5	**1350950000**
Plug-in connector unit	UR20-PK-1334740000-SP	5	**1346480000**
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

Accessories
Potential distribution modules, system accessories

A wide range of accessory modules is provided for the individual requirements of machine and plant construction. Various potential distribution modules are available for directly supplying sensors with 2-wire, 3-wire or 3-wire+FE connection technology from the remote I/O system. These provide 16 “PUSH IN” potential points and supply your application with each auxiliary potential available. An empty module, where the system bus and voltage supply are looped through, allows you to plan expansion slots in a system and to start these up without any interruptions if required.

UR20-ES

UR20-16AUX-I

UR20-16AUX-O

UR20-16AUX-FE

UR20-16AUX-GND-I

UR20-16AUX-GND-O

UR20-AUX-VSYS

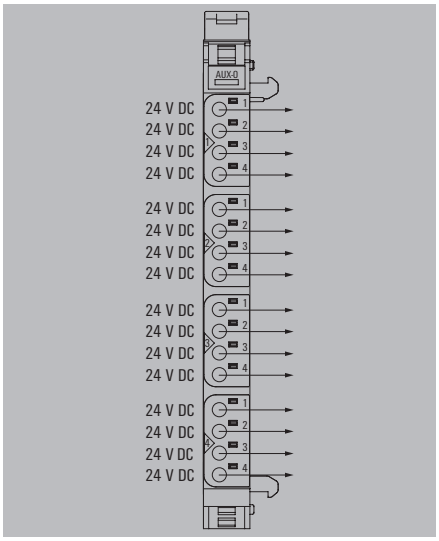
AUX

- Distribution of the various potentials
- Actuator and sensor supply
- 16 “PUSH IN” potential contacts

UR20-16AUX

Technical data

Supply	
Voltage supply	24 V DC +20 %/ -15 %, from input or output current path / FE
General data	
Weight	84 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	



Ordering data

Module variants	Type	Qty.	Order No.
Potential distribution module	UR20-16AUX-I	1	1334770000
	UR20-16AUX-O	1	1334780000
	UR20-16AUX-FE	1	1334790000
	UR20-16AUX-GND-I	1	1334800000
	UR20-16AUX-GND-O	1	1334810000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
USB cable (USB A to Micro USB)	IE-USB-A-MICRO-1.8M	1	1487980000
Replacement parts			
Electronic module	UR20-EM-1334770000-SP	1	1347450000
	UR20-EM-1334780000-SP	1	1347470000
	UR20-EM-1334790000-SP	1	1347480000
	UR20-EM-1334800000-SP	1	1347490000
	UR20-EM-1334810000-SP	1	1347500000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1334770000-SP	5	1346450000
	UR20-PK-1334790000-SP	5	1346490000
	UR20-PK-1334800000-SP	5	1346470000
	UR20-PK-1334780000-SP	5	1484080000
	UR20-PK-1334810000-SP	5	1484090000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

AUX-VSYS

- Optimized hot-swap behaviour by maintaining all output states even if the backplane bus connection is briefly interrupted
- Forwarding of the system bus and the voltage paths
- Passive auxiliary module without fieldbus communication, does not reduce the number of stackable active I/O modules

UR20-AUX-VSYS

Technical data

Supply	
Voltage supply	0 V (from output current path)
General data	
Weight	70 g
Dimensions H x W x D	120 mm / 11.5 mm / 76 mm
Note	

Ordering data

Module variants		
Type	**Qty.**	**Order No.**
UR20-AUX-VSYS	1	**2919660000**
Note		

Empty slot module

UR20-ES

- Forwarding of system bus and voltage paths
- Space for subsequent expansion
- Basis for all I/O modules

Technical data

General data	
Weight	70 g
Dimensions H x W x D	120 mm / 11.5 / 76 mm
Note	

Ordering data

Module variants	Type	Qty.	Order No.
Empty module	UR20-ES	1	1315770000
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swievel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE	1	1429910000
Thermotransfer version (material: polyester)	THM UR20 WS	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS	10	1429430000
Replacement parts			
Electronic module	UR20-EM-1315770000-SP	1	1347370000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315770000-SP	5	1346510000
Note	1 roll = 1000 label = 1 Qty. 1 sheet = 60 label = 1 Qty.		

Termination kit

UR20-EBK

- Includes an end plate and two end brackets

Ordering data

Module variants	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	1346610000
Note			

I/O system IP20 – Accessories

Individual components

In the event of repairs, Weidmüller offers you the option of replacing defective individual components. The following list shows the modules that can be ordered.

Ordering data spare parts

Product	Order No.	Plug-in connector unit	Order No.	Electronics module	Order No.	Basic module	Order No.
UR20-FBC-PB-DP-V2	**2614380000**	UR20-PK-2614380000-SP	**2623120000**				
UR20-FBC-PN-IRT-V2	**2566380000**	UR20-PK-2566380000-SP	**2623640000**				
UR20-FBC-PN-ECO	**2659680000**	UR20-PK-2659680000-SP	**2702590000**				
UR20-FBC-EC	**1334910000**	UR20-PK-1334910000-SP	**1484440000**				
UR20-FBC-EC-ECO	**2659690000**	UR20-PK-2659690000-SP	**2702600000**				
UR20-FBC-MOD-TCP-V2	**2476450000**	UR20-PK-2476450000-SP	**2485280000**				
UR20-FBC-MOD-TCP-ECO	**2659700000**	UR20-PK-2659700000-SP	**2702610000**				
UR20-FBC-EIP	**1334920000**	UR20-PK-1334920000-SP	**1541290000**				
UR20-FBC-EIP-V2	**1550550000**	UR20-PK-1550550000-SP	**2780340000**				
UR20-FBC-EIP-ECO	**2799510000**	UR20-PK-2799510000-SP	**2832900000**				
UR20-FBC-DN	**1334900000**	UR20-PK-1334900000-SP	**2003540000**				
UR20-FBC-CAN	**1334890000**	UR20-PK-1334890000-SP	**2003530000**				
UR20-FBC-PL	**1334940000**	UR20-PK-1334940000-SP	**2425170000**				
UR20-FBC-CC	**2625010000**	UR20-PK-2625010000-SP	**2625060000**				
UR20-FBC-CC-TSN	**2680260000**	UR20-PK-2680260000-SP	**2699160000**				
UR20-FBC-IEC61162-450	**2661310000**	UR20-PK-2661310000-SP	**2680540000**				
UR20-4DI-P	**1315170000**	UR20-PK-1315170000-SP	**1346440000**	UR20-EM-1315170000-SP	**1346640000**	UR20-BM-SP	**1350930000**
UR20-4DI-P-3W	**2009360000**	UR20-PK-2009360000-SP	**2011240000**	UR20-EM-2009360000-SP	**2011260000**	UR20-BM-SP	**1350930000**
UR20-8DI-P-2W	**1315180000**	UR20-PK-1315180000-SP	**1346430000**	UR20-EM-1315180000-SP	**1490220000**	UR20-BM-SP	**1350930000**
UR20-8DI-P-3W	**1394400000**	UR20-PK-1394400000-SP	**1411430000**	UR20-EM-1394400000-SP	**1434220000**	UR20-BM-SP	**1350930000**
UR20-8DI-P-3W-HD	**1315190000**	UR20-PK-1315190000-SP	**1518800000**	UR20-EM-1315190000-SP	**1346670000**	UR20-BM-SP	**1350930000**
UR20-16DI-P	**1315200000**	UR20-PK-1315200000-SP	**1346400000**	UR20-EM-1315200000-SP	**1346680000**	UR20-BM-SP	**1350930000**
UR20-16DI-P-PLC-INT	**1315210000**	UR20-PK-1315210000-SP	**1346590000**	UR20-EM-1315210000-SP	**1346690000**	UR20-BM-SP	**1350930000**
UR20-2DI-P-TS	**1460140000**	UR20-PK-1460140000-SP	**1484110000**	UR20-EM-1460140000-SP	**1463690000**	UR20-BM-SP	**1350930000**
UR20-4DI-P-TS	**1460150000**	UR20-PK-1460150000-SP	**1484430000**	UR20-EM-1460150000-SP	**1463680000**	UR20-BM-SP	**1350930000**
UR20-4DI-N	**1315350000**	UR20-PK-1315350000-SP	**1559770000**	UR20-EM-1315350000-SP	**1346870000**	UR20-BM-SP	**1350930000**
UR20-8DI-N-3W	**1315370000**	UR20-PK-1315370000-SP	**1559780000**	UR20-EM-1315370000-SP	**1346880000**	UR20-BM-SP	**1350930000**
UR20-16DI-N	**1315390000**	UR20-PK-1315390000-SP	**1559790000**	UR20-EM-1315390000-SP	**1346920000**	UR20-BM-SP	**1350930000**
UR20-16DI-N-PLC-INT	**1315400000**	UR20-PK-1315400000-SP	**1559800000**	UR20-EM-1315400000-SP	**1346930000**	UR20-BM-SP	**1350930000**
UR20-4DI-2W-230V-AC	**1550070000**	UR20-PK-1550070000-SP	**1559820000**	UR20-EM-1550070000-SP	**1558880000**	UR20-BM-SP	**1350930000**
UR20-8DI-ISO-2W	**2457240000**	UR20-PK-2457240000-SP	**2545760000**	UR20-EM-2457240000-SP	**2545780000**	UR20-BM-SP	**1350930000**
UR20-4DO-P	**1315220000**	UR20-PK-1315220000-SP	**1483960000**	UR20-EM-1315220000-SP	**1346700000**	UR20-BM-SP	**1350930000**
UR20-4DO-P-2A	**1315230000**	UR20-PK-1315230000-SP	**1483970000**	UR20-EM-1315230000-SP	**1346710000**	UR20-BM-SP	**1350930000**
UR20-4DO-PN-2A	**1394420000**	UR20-PK-1394420000-SP	**1483980000**	UR20-EM-1394420000-SP	**1480950000**	UR20-BM-SP	**1350930000**
UR20-8DO-P	**1315240000**	UR20-PK-1315240000-SP	**1346410000**	UR20-EM-1315240000-SP	**1346720000**	UR20-BM-SP	**1350930000**
UR20-8DO-P-2W-HD	**1509830000**	UR20-PK-1509830000-SP	**1559720000**	UR20-EM-1509830000-SP	**1515450000**	UR20-BM-SP	**1350930000**
UR20-16DO-P	**1315250000**	UR20-PK-1315250000-SP	**1483990000**	UR20-EM-1315250000-SP	**1346730000**	UR20-BM-SP	**1350930000**
UR20-16DO-P-PLC-INT	**1315270000**	UR20-PK-1315270000-SP	**1483940000**	UR20-EM-1315270000-SP	**1346740000**	UR20-BM-SP	**1350930000**
UR20-4DO-N	**1315410000**	UR20-PK-1315410000-SP	**1559840000**	UR20-EM-1315410000-SP	**1346940000**	UR20-BM-SP	**1350930000**
UR20-4DO-N-2A	**1315420000**	UR20-PK-1315420000-SP	**1559850000**	UR20-EM-1315420000-SP	**1346950000**	UR20-BM-SP	**1350930000**
UR20-8DO-N	**1315430000**	UR20-PK-1315430000-SP	**1984770000**	UR20-EM-1315430000-SP	**1346970000**	UR20-BM-SP	**1350930000**
UR20-16DO-N	**1315440000**	UR20-PK-1315440000-SP	**2000520000**	UR20-EM-1315530000-SP	**1346980000**	UR20-BM-SP	**1350930000**
UR20-16DO-N-PLC-INT	**1315450000**	UR20-PK-1315450000-SP	**2000540000**	UR20-EM-1315450000-SP	**1346990000**	UR20-BM-SP	**1350930000**
UR20-4DO-ISO-4A	**2457250000**	UR20-PK-2457250000-SP	**2545770000**	UR20-EM-2457250000-SP	**2545790000**	UR20-BM-SP	**1350930000**
UR20-8DIO-P-3W-DIAG	**2456530000**	UR20-PK-2456530000-SP	**2593320000**	UR20-EM-2456530000-SP	**2593330000**	UR20-BM-SP	**1350930000**
UR20-4RO-SSR-255	**1315540000**	UR20-PK-1315540000-SP	**1484000000**	UR20-EM-1315540000-SP	**1347120000**	UR20-BM-SP	**1350930000**
UR20-4RO-CO-255	**1315550000**	UR20-PK-1315550000-SP	**1346500000**	UR20-EM-1315550000-SP	**1347130000**	UR20-BM-SP	**1350930000**
UR20-2PWM-PN-0.5A-V2	**3036960000**	UR20-PK-1315600000-SP	**1484010000**	UR20-EM-1315600000-SP	**1347180000**	UR20-BM-SP	**1350930000**
UR20-2PWM-PN-2A-V2	**3036950000**	UR20-PK-1315610000-SP	**1346550000**	UR20-EM-1315610000-SP	**1347190000**	UR20-BM-SP	**1350930000**
UR20-2PWM-I-2.5A-2DI-P	**2697910000**	UR20-PK-2697910000-SP	**2735370000**	UR20-EM-2697910000-SP	**2735380000**	UR20-BM-SP	**1350930000**
UR20-1SM-50W-6DI2DO-P	**2489830000**	UR20-PK1-2489830000-SP	**2573750000**	UR20-EM-2489830000-SP	**2585660000**	UR20-BM-SP	**1350930000**
		UR20-PK2-2489830000-SP	**2585650000**			UR20-BM-SP	**1350930000**
UR20-2AI-UI-16	**2705620000**	UR20-PK-2705620000-SP	**2788710000**	UR20-EM-2705620000-SP	**2788700000**	UR20-BM-SP	**1350930000**
UR20-4AI-UI-12	**1394390000**	UR20-PK-1394390000-SP	**1484030000**	UR20-EM-1394390000-SP	**1434230000**	UR20-BM-SP	**1350930000**
UR20-4AI-UI-16	**1315620000**	UR20-PK-1315620000-SP	**1484020000**	UR20-EM-1315620000-SP	**1347200000**	UR20-BM-SP	**1350930000**
UR20-2AI-UI-16-DIAG	**2566090000**	UR20-PK-2566090000-SP	**2568070000**	UR20-EM-2566090000-SP	**2568080000**	UR20-BM-SP	**1350930000**
UR20-4AI-UI-16-DIAG	**1315690000**	UR20-PK-1315690000-SP	**1518870000**	UR20-EM-1315690000-SP	**1347280000**	UR20-BM-SP	**1350930000**
UR20-4AI-UI-ISO-16-DIAG	**2566960000**	UR20-PK-2566960000-SP	**2568320000**	UR20-EM-2566960000-SP	**2568360000**	UR20-BM-SP	**1350930000**
UR20-4AI-UI-16-HD	**1506920000**	UR20-PK-1506920000-SP	**1518830000**	UR20-EM-1506920000-SP	**1515420000**	UR20-BM-SP	**1350930000**
UR20-4AI-UI-16-DIAG-HD	**1506910000**	UR20-PK-1506910000-SP	**1518820000**	UR20-EM-1506910000-SP	**1515430000**	UR20-BM-SP	**1350930000**
UR20-8AI-I-16-HD	**1315650000**	UR20-PK-1315650000-SP	**1559740000**	UR20-EM-1315650000-SP	**1347240000**	UR20-BM-SP	**1350930000**
UR20-8AI-I-16-DIAG-HD	**1315720000**	UR20-PK-1315720000-SP	**1559750000**	UR20-EM-1315720000-SP	**1347320000**	UR20-BM-SP	**1350930000**
UR20-8AI-I-PLC-INT	**1315670000**	UR20-PK-1315670000-SP	**1483950000**	UR20-EM-1315670000-SP	**1347250000**	UR20-BM-SP	**1350930000**
UR20-4AI-UI-DIF-16-DIAG	**1993880000**	UR20-PK-1993880000-SP	**2446200000**	UR20-EM-1993880000-SP	**2446190000**	UR20-BM-SP	**1350930000**
UR20-4AI-TC-DIAG	**1315710000**	UR20-PK-1315710000-SP	**1484050000**	UR20-EM-1315710000-SP	**1435740000**	UR20-BM-SP	**1350930000**
UR20-4AI-RTD-DIAG	**1315700000**	UR20-PK-1315700000-SP	**1484040000**	UR20-EM-1315700000-SP	**1347290000**	UR20-BM-SP	**1350930000**
UR20-4AI-RTD-HP-DIAG	**2456540000**	UR20-PK-2456540000-SP	**2545610000**	UR20-EM-2456540000-SP	**2545620000**	UR20-BM-SP	**1350930000**
UR20-4AI-R-HS-16-DIAG	**2001670000**	UR20-PK-2001670000-SP	**2068610000**	UR20-EM-2001670000-SP	**2068640000**	UR20-BM-SP	**1350930000**
UR20-4AI-I-HART-16-DIAG	**2617520000**	UR20-PK-2617520000-SP	**2702540000**	UR20-EM-2617520000-SP	**2702570000**	UR20-BM-SP	**1350930000**
UR20-4AI-I-HART-ISO-16	**2828350000**	UR20-PK-2828350000-SP	**2935060000**	UR20-EM-2828350000-SP	**2935070000**	UR20-BM-SP	**1350930000**
UR20-8AI-RTD-DIAG-2W	**2555940000**	UR20-PK-2555940000-SP	**2593300000**	UR20-EM-2555940000-SP	**2593310000**	UR20-BM-SP	**1350930000**
Note		All Plug-in connector units: Qty. = 5		All electronic modules: Qty. = 1		All basic modules: Qty. = 5	

Ordering data spare parts

Product	Order No.
UR20-2AI-SG-24-DIAG	**1990070000**
UR20-3EM-230V-AC	**2007420000**
UR20-3EM-400V-AC-CT1A	**2920830000**
UR20-3EM-400V-AC-CT5A	**2920840000**
UR20-2AO-UI-16	**2705630000**
UR20-4AO-UI-16	**1315680000**
UR20-4AO-UI-16-M	**2453880000**
UR20-2AO-UI-16-DIAG	**2566100000**
UR20-2AO-UI-ISO-16-DIAG	**2566970000**
UR20-4AO-UI-16-DIAG	**1315730000**
UR20-4AO-UI-16-M-DIAG	**2453870000**
UR20-4AO-UI-16-HD	**1510690000**
UR20-1CNT-100-1DO	**1315570000**
UR20-2CNT-100	**1315590000**
UR20-1CNT-500	**1315580000**
UR20-2FCNT-100	**1508080000**
UR20-1SSI	**1508090000**
UR20-1COM-232-485-422	**1315750000**
UR20-1COM-232-485-422-V2	**2826800000**
UR20-1COM-SAI-PRO	**2007430000**
UR20-4COM-IO-LINK	**1315740000**
UR20-1COM-CANOPEN	**2489840000**
UR20-4DI-4DO-PN-FSOE-V2	**2464580000**
UR20-8DI-PN-FSOE-V2	**2464600000**
UR20-4DI-4DO-PN-FSPS-V2	**2464570000**
UR20-8DI-PN-FSPS-V2	**2464590000**
UR20-PF-O-1DI-SIL	**1335030000**
UR20-PF-O-2DI-SIL	**1335050000**
UR20-PF-O-2DI-DELAY-SIL	**1335040000**
UR20-PF-I	**1334710000**
UR20-PF-O	**1334740000**
UR20-16AUX-I	**1334770000**
UR20-16AUX-O	**1334780000**
UR20-16AUX-FE	**1334790000**
UR20-16AUX-GND-I	**1334800000**
UR20-16AUX-GND-O	**1334810000**
UR20-AUX-VSYS	**2919660000**
UR20-ES	**1315770000**
Note	

Plug-in connector unit	Order No.
UR20-PK-1990070000-SP	**2068620000**
UR20-PK-2007420000-SP	**2068630000**
UR20-PK-2920830000-SP	**3052170000**
UR20-PK-2920840000-SP	**3052180000**
UR20-PK-2705630000-SP	**2777410000**
UR20-PK-1315680000-SP	**1484070000**
UR20-PK-2453880000-SP	**2508770000**
UR20-PK-2566100000-SP	**2568340000**
UR20-PK-2566970000-SP	**2568330000**
UR20-PK-1315730000-SP	**1518880000**
UR20-PK-2453870000-SP	**2508780000**
UR20-PK-1510690000-SP	**1531830000**
UR20-PK-1315570000-SP	**1346520000**
UR20-PK-1315590000-SP	**1346540000**
UR20-PK-1315580000-SP	**1346530000**
UR20-PK-1508080000-SP	**1518840000**
UR20-PK-1508090000-SP	**1559870000**
UR20-PK-1315750000-SP	**2425150000**
UR20-PK-2826800000-SP	**2826870000**
UR20-PK-2007430000-SP	**2425160000**
UR20-PK-1315740000-SP	**2508760000**
UR20-PK-2489840000-SP	**2702530000**
UR20-PK-2464580000-SP	**2465990000**
UR20-PK-2464600000-SP	**2465940000**
UR20-PK-2464570000-SP	**2466000000**
UR20-PK-2464590000-SP	**2465950000**
UR20-PK-1335030000-SP	**1346560000**
UR20-PK-1335050000-SP	**1346570000**
UR20-PK-1335040000-SP	**1484100000**
UR20-PK-1334710000-SP	**1346460000**
UR20-PK-1334740000-SP	**1346480000**
UR20-PK-1334770000-SP	**1346450000**
UR20-PK-1334780000-SP	**1484080000**
UR20-PK-1334790000-SP	**1346490000**
UR20-PK-1334800000-SP	**1346470000**
UR20-PK-1334810000-SP	**1484090000**
UR20-PK-1315770000-SP	**1346510000**
All Plug-in connector units: Qty. = 5	

Electronics module	Order No.
UR20-EM-1990070000-SP	**1562260000**
UR20-EM-2007420000-SP	**1562270000**
UR20-EM-2920830000-SP	**3052120000**
UR20-EM-2920840000-SP	**3052130000**
UR20-EM-2705630000-SP	**2777420000**
UR20-EM-1315680000-SP	**1347270000**
UR20-EM-2453880000-SP	**2508790000**
UR20-EM-2566100000-SP	**2568380000**
UR20-EM-2566970000-SP	**2568370000**
UR20-EM-1315730000-SP	**1347330000**
UR20-EM-2453870000-SP	**2508800000**
UR20-EM-1510690000-SP	**1515470000**
UR20-EM-1315570000-SP	**1347140000**
UR20-EM-1315590000-SP	**1347150000**
UR20-EM-1315580000-SP	**1347170000**
UR20-EM-1508080000-SP	**1515440000**
UR20-EM-1508090000-SP	**1515490000**
UR20-EM-1315750000-SP	**1347350000**
UR20-EM-2826800000-SP	**2826860000**
UR20-EM-2007430000-SP	**2425350000**
UR20-EM-1315740000-SP	**1347340000**
UR20-EM-2489840000-SP	**2702550000**
UR20-EM-2464580000-SP	**2466020000**
UR20-EM-2464600000-SP	**2465960000**
UR20-EM-2464570000-SP	**2466030000**
UR20-EM-2464590000-SP	**2466010000**
UR20-EM-1335030000-SP	**1347520000**
UR20-EM-1335050000-SP	**1347540000**
UR20-EM-1335040000-SP	**1347530000**
UR20-EM-1334710000-SP	**1347380000**
UR20-EM-1334740000-SP	**1347420000**
UR20-EM-1334770000-SP	**1347450000**
UR20-EM-1334780000-SP	**1347470000**
UR20-EM-1334790000-SP	**1347480000**
UR20-EM-1334800000-SP	**1347490000**
UR20-EM-1334810000-SP	**1347500000**
UR20-EM-1315770000-SP	**1347370000**
All electronic modules: Qty. = 1	

Basic module	Order No.
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SIL-SP	**1350970000**
UR20-BM-SIL-SP	**1350970000**
UR20-BM-SIL-SP	**1350970000**
UR20-BM-PF-I-SP	**1350940000**
UR20-BM-PF-O-SP	**1350950000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
UR20-BM-SP	**1350930000**
All basic modules: Qty. = 5	

System overview
Support for component selection

The following tables will help you to assemble your systems. The exact technical data and descriptions of the products can be found on the respective page here in the catalogue. When selecting, please note the maximum number of 64 active modules and the packaging units for the accessories.

For help in refreshing the power paths, see the calculation example at the bottom right.

1. What field bus are you using?

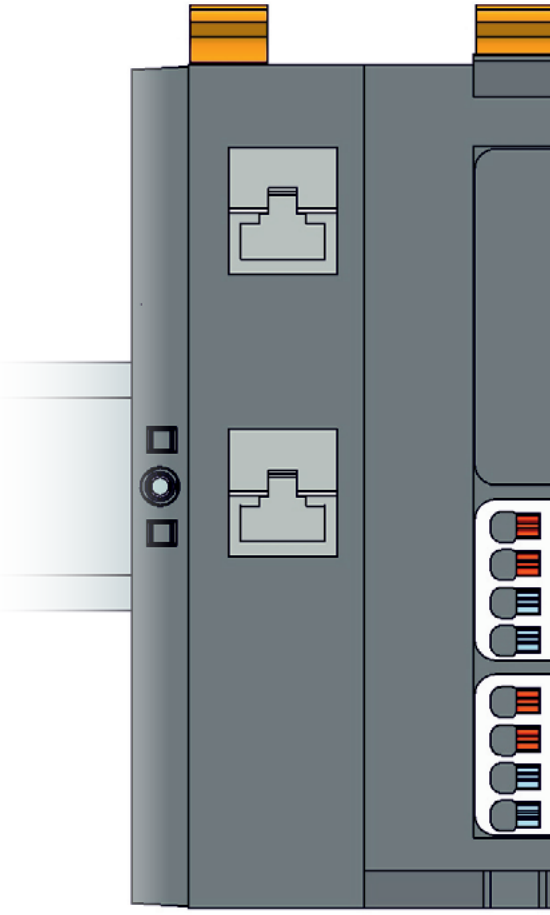
Bus	Type	Order No.	Page
PROFIBUS	UR20-FBC-PB-DP-V2	2614380000	C.5
PROFINET	UR20-FBC-PN-IRT-V2	2566380000	C.7
PROFINET	UR20-FBC-PN-ECO	2659680000	C.9
EtherCAT	UR20-FBC-EC	1334910000	C.11
EtherCAT	UR20-FBC-EC-ECO	2659690000	C.13
Modbus	UR20-FBC-MOD-TCP-V2	2476450000	C.15
Modbus	UR20-FBC-MOD-TCP-ECO	2659700000	C.17
EtherNet/IP	UR20-FBC-EIP	1334920000	C.19
EtherNet/IP	UR20-FBC-EIP-V2	1550550000	C.20
EtherNet/IP	UR20-FBC-EIP-ECO	2799510000	C.23
DeviceNet	UR20-FBC-DN	1334900000	C.25
CANopen	UR20-FBC-CAN	1334890000	C.27
POWERLINK	UR20-FBC-PL	1334940000	C.29
CC-Link V2	UR20-FBC-CC	2625010000	C.31
CC-Link IE TSN	UR20-FBC-CC-TSN	2680260000	C.33
IEC 61162-450	UR20-FBC-IEC61162-450	2661310000	C.35

2. What signals do you want to process?

Digital inputs	Order No.	Page
UR20-4DI-P	1315170000	C.37
UR20-4DI-P-3W	2009360000	C.38
UR20-8DI-P-2W	1315180000	C.39
UR20-8DI-P-3W	1394400000	C.40
UR20-8DI-P-3W-HD	1315190000	C.41
UR20-16DI-P	1315200000	C.42
UR20-16DI-P-PLC-INT	1315210000	C.43
UR20-2DI-P-TS	1460140000	C.44
UR20-4DI-P-TS	1460150000	C.45
UR20-4DI-N	1315350000	C.46
UR20-8DI-N-3W	1315370000	C.47
UR20-16DI-N	1315390000	C.48
UR20-16DI-N-PLC-INT	1315400000	C.49
UR20-4DI-2W-230V-AC	1550070000	C.51
UR20-8DI-ISO-2W	2457240000	C.50
Digital outputs		**Page**
UR20-4DO-P	1315220000	C.53
UR20-4DO-P-2A	1315230000	C.54
UR20-4DO-PN-2A	1394420000	C.55
UR20-8DO-P	1315240000	C.56
UR20-8DO-P-2W-HD	1509830000	C.57
UR20-16DO-P	1315250000	C.58
UR20-16DO-P-PLC-INT	1315270000	C.59
UR20-4DO-N	1315410000	C.60
UR20-4DO-N-2A	1315420000	C.61
UR20-8DO-N	1315430000	C.62
UR20-16DO-N	1315440000	C.63
UR20-16DO-N-PLC-INT	1315450000	C.64
UR20-4DO-ISO-4A	2457250000	C.65
UR20-8DIO-P-3W-DIAG	2456530000	C.69
UR20-4RO-SSR-255	1315540000	C.66
UR20-4RO-CO-255	1315550000	C.67

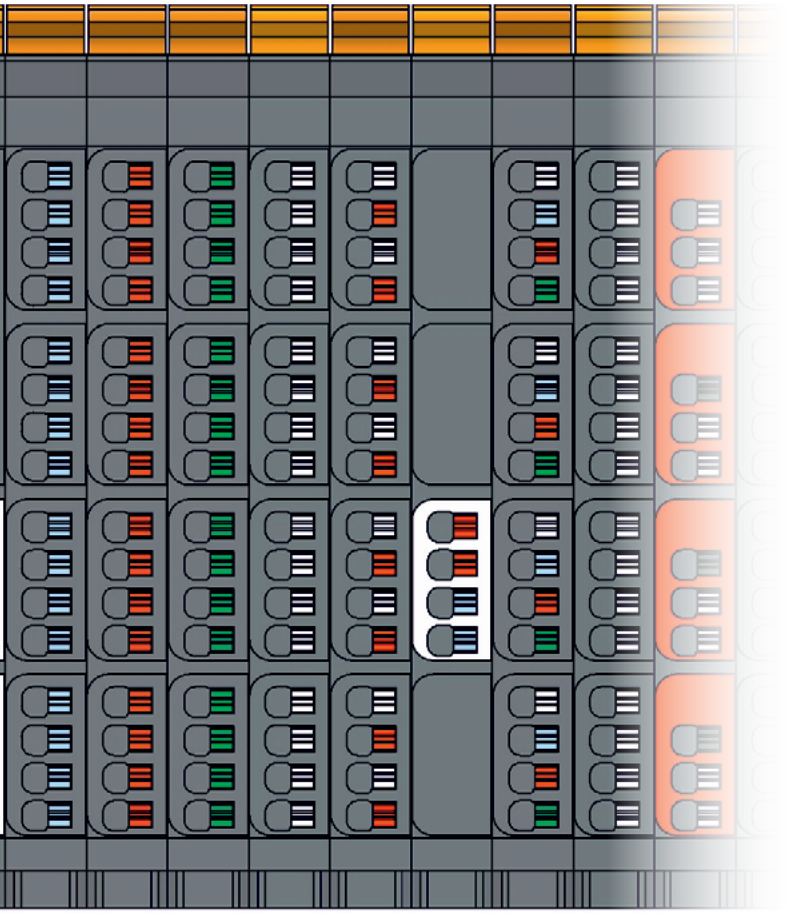
2. What signals do you want to process?

Digital outputs	Order No.	Page
UR20-2PWM-PN-0.5A-V2	3036960000	C.71
UR20-2PWM-PN-2A-V2	3036950000	C.72
UR20-2PWM-I-2.5A-2DI-P	2697910000	C.73
UR20-1SM-50W-6DI2DO-P	2489830000	C.74
Analogue inputs		**Page**
UR20-2AI-UI-16	2705620000	C.77
UR20-4AI-UI-12	1394390000	C.78
UR20-4AI-UI-16	1315620000	C.79
UR20-2AI-UI-16-DIAG	2566090000	C.80
UR20-4AI-UI-16-DIAG	1315690000	C.81
UR20-4AI-UI-ISO-16-DIAG	2566960000	C.82
UR20-4AI-UI-16-HD	1506920000	C.83
UR20-4AI-UI-16-DIAG-HD	1506910000	C.84
UR20-8AI-I-16-HD	1315650000	C.85
UR20-8AI-I-16-DIAG-HD	1315720000	C.86
UR20-8AI-I-PLC-INT	1315670000	C.87
UR20-4AI-UI-DIF-16-DIAG	1993880000	C.88
UR20-4AI-TC-DIAG	1315710000	C.96
UR20-4AI-RTD-DIAG	1315700000	C.93
UR20-4AI-RTD-HP-DIAG	2456540000	C.94
UR20-4AI-R-HS-16-DIAG	2001670000	C.97
UR20-4AI-I-HART-16-DIAG	2617520000	C.90
UR20-4AI-I-HART-ISO-16	2828350000	C.91
UR20-8AI-RTD-DIAG-2W	2555940000	C.95
UR20-2AI-SG-24-DIAG	1990070000	C.99
UR20-3EM-230V-AC	2007420000	C.101
UR20-3EM-400V-AC-CT1A	2920830000	C.102
UR20-3EM-400V-AC-CT5A	2920840000	C.103
Analogue outputs		**Page**
UR20-2AO-UI-16	2705630000	C.105
UR20-4AO-UI-16	1315680000	C.106
UR20-4AO-UI-16-M	2453880000	C.107
UR20-2AO-UI-16-DIAG	2566100000	C.108
UR20-2AO-UI-ISO-16-DIAG	2566970000	C.109
UR20-4AO-UI-16-DIAG	1315730000	C.110
UR20-4AO-UI-16-M-DIAG	2453870000	C.111
UR20-4AO-UI-16-HD	1510690000	C.112
Digital counter- and communication modules		**Page**
UR20-1CNT-100-1DO	1315570000	C.115
UR20-2CNT-100	1315590000	C.116
UR20-1CNT-500	1315580000	C.117
UR20-2FCNT-100	1508080000	C.118
UR20-1SSI	1508090000	C.119
UR20-1COM-232-485-422	1315750000	C.120
UR20-1COM-232-485-422-V2	2826800000	C.121
UR20-1COM-SAI-PRO	2007430000	C.122
UR20-4COM-IO-LINK	1315740000	C.123
UR20-1COM-CANOPEN	2489840000	C.124
Further functional modules		**Page**
UR20-4DI-4DO-PN-FSOE-V2	2464580000	C.127
UR20-8DI-PN-FSOE-V2	2464600000	C.128
UR20-4DI-4DO-PN-FSPS-V2	2464570000	C.129
UR20-8DI-PN-FSPS-V2	2464590000	C.130



3. Do you need more than 10 A on the input or output path? Then you will need an additional supply! There is a sample calculation at the bottom of this page.

	Order No.	Page
UR20-PF-O-1DI-SIL	1335030000	C.131
UR20-PF-O-2DI-SIL	1335050000	C.132
UR20-PF-O-2DI-DELAY-SIL	1335040000	C.133
UR20-PF-I	1334710000	C.135
UR20-PF-O	1334740000	C.136



4. AUX and accessories

AUX	Order No.	Page
UR20-16AUX-I	1334770000	C.139
UR20-16AUX-O	1334780000	C.139
UR20-16AUX-FE	1334790000	C.139
UR20-16AUX-GND-I	1334800000	C.139
UR20-16AUX-GND-O	1334810000	C.139
UR20-AUX-VSYS	2919660000	C.140
Accessories		**Page**
Termination kit	1346610000	C.141
Swivel marker	1339920000	C.141
Connection marker for pusher custom printing	1323700000	C.141
Connection marker for pusher neutral	1323710000	C.141
Module marker for custom printing	1341610000	C.141
Module marker for neutral	1341630000	C.141
Empty module	1315770000	C.141
Thermotransfer version (Material: Polyester)	1429910000	C.141
Thermotransfer version (material: polyester)	1429420000	C.141
Paper version for Laserprinter	1429430000	C.141

Calculation of the power refresh

The additional supply calculation is different for each application. Simultaneity factors and current requirement must be known. The following simplified calculation example serves as an aid. Here, a row consists of 8 DO modules, each of which can accommodate four actuator connections. The actual current demand and therefore the position for a power-feed module for supplying the current path can be calculated from the combination of current demand and simultaneity factor. Please note that u-remote provides you with one input and one output current path. Both must be included in the additional supply calculation. The system voltage doesn't have to be taken into account.

Sample calculation

Module no.	Module type	Current requirement of connected devices (A)	Simultaneity factor	Current following calculation of simultaneity factor per module	Current requirement of system – cumulative	Current requirement of system – cumulative with UR20-PF-O
1st module	UR20-8DO-P	0.5	0.5	0.25	0.25	0.25
2nd module	UR20-8DO-P	0.3	0.5	0.15	0.4	0.4
3rd module	UR20-8DO-P	2.0	0.7	1.4	1.8	1.8
4th module	UR20-8DO-P	2.0	0.5	1	2.8	2.8
5th module	UR20-8DO-P	2.0	0.3	2	4.8	4.8
6th module	UR20-8DO-P	0.5	0.2	0.1	4.9	4.9
7th module	UR20-8DO-P	1.0	0.1	0.75	5.65	5.65
8th module	UR20-8DO-P	1.0	0.2	0.2	5.85	5.85
9th module	UR20-8DO-P	1.2	0.5	0.6	6.45	6.45
10th module	UR20-8DO-P	2.0	1.0	2	8.45	8.45
	UR20-PF-O					
11th module	UR20-8DO-P	2.0	1.0	2	10.45	2
12th module	UR20-8DO-P	3.0	1.0	1	11.45	3
13th module	UR20-8DO-P	2.0	1.0	2	13.45	5

Current requirement exceeds 10 A!
The output current path therefore needs an additional supply before the 11th module.

10 A are supplied by the UR20-PF-O module. The 1.55 A calculated as remaining after the tenth module must not be added to the 10 A after the UR20-PF-O module!

Decentralised automation
FieldPower® housing for I/O system IP20

Automation located close to the process reduces complexity and increases reliability through shorter and standardised lines. In addition, decentralisation with predefined function modules saves time and money in planning and installation. The wide range of functions of the remote I/O u-remote can be used decentrally in the innovative FieldPower® housing with its unique wiring concept.

The modular FieldPower® system offers two housing sizes for a wide variety of u-remote module configurations. Innovative hinged seals or plug-in connectors allow the usage of pre-assembled cables and ensure quick and error-free wiring directly at the point of use.

The required u-remote modules can be planned in advance on the appropriate terminal rail within the Weidmüller configurator, which significantly simplifies project planning. Further information on the use of u-remote modules in FieldPower® can be found under the QR code at the bottom.

Your special advantage:
- Easy decentralisation of your individual u-remote combination
- Robust housing with high degree of protection
- Reduced wiring time due to innovative hinged seals or plug-in connectors

For further products, information, technical specifications or additional services, please visit our website:
www.weidmueller.com/fieldpower

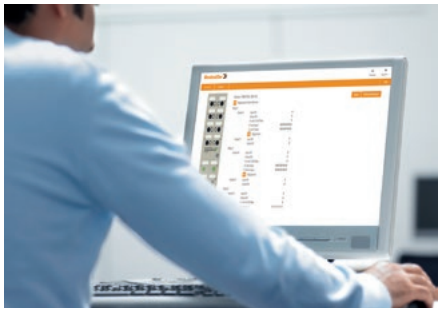
Remote I/O system in protection class IP67

Flexible sensor/actuator coupling to control systems in IP67 area in industrial environment

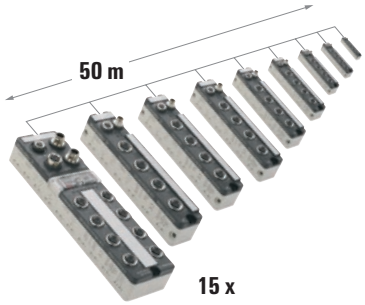
In both machine and plant construction, sensors and actuators from the entire machine have to be connected to the control unit. Depending on the machine, the size and also the count of the signals may be very large so that fieldbuses and IO systems can be used to collect the signals locally.
The u-remote IP67 product family solves this problem by means of IP67 protected encapsulation at the very point where the sensors and actuators are located. In the variants with a subbus system, this is done very flexibly and in a wide range of applications.
Direct incorporation in the PLC programming environment, rapid definition of causes in the event of faults and a very narrow and lightweight design are the characteristics which make this system unique on the market.

Improved Connectivity Technology
With the l-coded M12 or PushPull Power connectors the ampacity of the connectors has been increased to 16 A.
For a control of significantly more actuators and therefore more decentral remote I/Os are possible. Take advantage of the opportunities for more flexible planning in your system.

Efficient engineering
Direct incorporation and configuration in the standard PLC engineering systems with webserver.



50 % reduced costs through flexible subbus concept
Subbus length of up to 50 m with up to 15 slaves per subbus enables an extremely flexible setup.



Remote I/O system as complete system on the panel
An extremely wide range of sensor and actuator cables, fieldbus cables and customisable plug-in connectors round off the range.

Freedom of choice
Support for all common fieldbus systems.

PROFINET®

EtherCAT®

EtherNet/IP™

Use IO-Link
Universal · Smart · Easy

Advanced diagnostic capabilities
A channel wise diagnosis based on two-colored LEDs will quickly and clearly shows the state of the individual channels on site.

PROFINET

Remote I/O for digital signal conditioning

	UR67-PN-HP-8IOL-12-30M	UR67-PN-HP-8IOL-12-60M
		

Technical data

Connections		
Fieldbus (BUS-IN)	1x M12 female 4-pole, D-coded	1x M12 female 4-pole, D-coded
Fieldbus (BUS-OUT)	1x M12 female 4-pole, D-coded	1x M12 female 4-pole, D-coded
Supply voltage (AUX-IN)	1x M12 plug 5-pole, L-coded	1x M12 plug 5-pole, L-coded
Supply voltage (AUX-OUT)	1x M12 socket 5-pole, L-coded	1x M12 socket 5-pole, L-coded
I/O connections	8 x M12 socket 5-pole, A-coded	8 x M12 socket 5-pole, A-coded
Supply voltage		
Operating voltage	24 V (18 V DC ... 30 V DC)	24 V (18 V DC ... 30 V DC)
Power consumption of module electronics	160 mA typical	160 mA typical
Module supply	16 A	16 A
Digital inputs		
IO link standard	IO-Link v.1.1, IEC 61131-9	IO-Link v.1.1, IEC 61131-9
Galvanic isolation	2000 V DC	2000 V DC
Input current, low	Type 1 in acc. with IEC 61131-2	Type 1 in acc. with IEC 61131-2
Input current, high	Type 1 in acc. with IEC 61131-2	Type 1 in acc. with IEC 61131-2
Status indicator	Per channel, via LED, yellow	Per channel, via LED, yellow
Diagnostic display	Per channel, via LED, red	Per channel, via LED, red
Digital outputs		
max. current-carrying capacity per output signal	0.5 A, 2 A	0.5 A, 2 A
Output voltage, low	- 1 V	- 1 V
Output voltage, high	max. 2 V	max. 2 V
Status indicator	Per channel, via LED, yellow	Per channel, via LED, yellow
Diagnostic display	Per channel, via LED, red	Per channel, via LED, red
Fieldbus		
Bus system	PROFINET V2.3	PROFINET V2.3
Transmission rate	10/100 MBit/s	10/100 MBit/s
Addressing	DCP	DCP
General data		
Length / Width / Height	225 mm / 30 / 30 mm	200 mm / 59.6 / 17.6 mm
Earth	480 g	500 g
Protection degree	IP67	IP67
Operating temperature	-20...70	-20...70
Housing main material / UL 94 flammability rating	Zinc diecast / UL 94	Zinc diecast / UL 94
Note	Download of GSDML-files on www.weidmueller.com	Download of GSDML-files on www.weidmueller.com

Ordering data

Module variants	Type	Qty.	Order No.
IO link, 4 x type A, 4 x type B	UR67-PN-HP-8IOL-12-30M	1	**2426250000**
Note			

Type	Qty.	Order No.
UR67-PN-HP-8IOL-12-60M	1	**2426260000**

Accessories

	Type	Qty.	Order No.
M12 sensor cable	SAIL-M12G-5-1.5U	1	**9457610150**
M12 sensor cable	SAIL-M12W-5-1.5U	1	**9457670150**
Bus cable	IE-C5DD4UG0015MCSA70-E	1	**1044470015**
Bus cable	IE-C5DD4UG0015MCSMCS-E	1	**1025950015**
Markers	MF 5/10 MC NE WS	250	**1954050000**
Plug			
Metal plug Ethernet, Male M12, D-coded, straight	SAISM-4/8S-M12-4P D-COD	1	**1892120000**
Note	Further cables can be found at the end of this chapter.		

Type	Qty.	Order No.
SAIL-M12G-5-1.5U	1	**9457610150**
SAIL-M12W-5-1.5U	1	**9457670150**
IE-C5DD4UG0015MCSA70-E	1	**1044470015**
IE-C5DD4UG0015MCSMCS-E	1	**1025950015**
ESG-M 8/20 MC NE WS	200	**1027290000**
SAISM-4/8S-M12-4P D-COD	1	**1892120000**
Further cables can be found at the end of this chapter.		

Multiprotocol

Remote I/O for digital signal conditioning

PROFINET EtherCAT EtherNet/IP Multiprotocol

	UR67-MP-HP-16DI-12-M60	UR67-MP-HP-16DO-12-M60
		

Technical data

Connections		
Fieldbus (BUS-IN)	1x M12 female 4-pole, D-coded	1x M12 female 4-pole, D-coded
Fieldbus (BUS-OUT)	1x M12 female 4-pole, D-coded	1x M12 female 4-pole, D-coded
Supply voltage (AUX-IN)	1x M12 plug 5-pole, L-coded	1x M12 plug 5-pole, L-coded
Supply voltage (AUX-OUT)	1x M12 socket 5-pole, L-coded	1x M12 socket 5-pole, L-coded
I/O connections	8 x M12 socket 5-pole, A-coded	8 x M12 socket 5-pole, A-coded
Supply voltage		
Operating voltage	24 V (18 V DC ... 30 V DC)	24 V (18 V DC ... 30 V DC)
Power consumption of module electronics	100 mA typical	100 mA typical
Module supply	16 A	16 A
Digital inputs		
Input current, low	Type 1 in acc. with IEC 61131-2	
Input current, high	Type 1 in acc. with IEC 61131-2	
Status indicator	Per channel, via LED, yellow	
Diagnostic display	Per channel, via LED, red	
Digital outputs		
max. current-carrying capacity per output signal		2 A
Output voltage, low		min. (UL -1)
Output voltage, high		max. 2 V
Status indicator		Per channel, via LED, yellow
Diagnostic display		Per channel, via LED, red
Fieldbus		
Bus system	PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol	PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol
Transmission rate	10/100 MBit/s	10/100 MBit/s
Addressing	Via rotary coding switch, DCP	Via rotary coding switch, DCP
General data		
Length / Width / Height	200 mm / 59.6 / 17.6 mm	200 mm / 59.6 mm / 17.6 mm
Earth	500 g	500 g
Protection degree	IP67	IP67
Operating temperature	-20...70	-20...70 °C
Housing main material / UL 94 flammability rating	Zinc diecast / UL 94	Zinc diecast / UL 94
Note	Download the configuration files from www.weidmueller.com	Download the configuration files from www.weidmueller.com

Ordering data

Module variants	Type	Qty.	Order No.	Type	Qty.	Order No.
16 digital inputs	UR67-MP-HP-16DI-12-60M	1	2426270000			
16 digital out				UR67-MP-HP-16DO-12-60M	1	2426280000
Note						

Accessories

	Type	Qty.	Order No.	Type	Qty.	Order No.
M12 sensor cable	SAIL-M12G-5-1.5U	1	9457610150	SAIL-M12G-5-1.5U	1	9457610150
M12 sensor cable	SAIL-M12W-5-1.5U	1	9457670150	SAIL-M12W-5-1.5U	1	9457670150
Bus cable	IE-C5DD4UG0015MCSA70-E	1	1044470015	IE-C5DD4UG0015MCSA70-E	1	1044470015
Bus cable	IE-C5DD4UG0015MCSMCS-E	1	1025950015	IE-C5DD4UG0015MCSMCS-E	1	1025950015
Markers	ESG-M 8/20 MC NE WS	200	1027290000	ESG-M 8/20 MC NE WS	200	1027290000
Plug						
Metal plug Ethernet, Male M12, D-coded, straight	SAISM-4/8S-M12-4P D-COD	1	1892120000	SAISM-4/8S-M12-4P D-COD	1	1892120000
Note	Further cables can be found at the end of this chapter.			Further cables can be found at the end of this chapter.		

Multiprotocol

Remote I/O for digital signal conditioning

PROFINET EtherCAT EtherNet/IP Multiprotocol

	UR67-MP-HP-8DIDO-12-60M	UR67-MP-HP-16DIO-12-60M
		

Technical data

Connections		
Fieldbus (BUS-IN)	1x M12 female 4-pole, D-coded	1x M12 female 4-pole, D-coded
Fieldbus (BUS-OUT)	1x M12 female 4-pole, D-coded	1x M12 female 4-pole, D-coded
Supply voltage (AUX-IN)	1x M12 plug 5-pole, L-coded	1x M12 plug 5-pole, L-coded
Supply voltage (AUX-OUT)	1x M12 socket 5-pole, L-coded	1x M12 socket 5-pole, L-coded
I/O connections	8 x M12 socket 5-pole, A-coded	8 x M12 socket 5-pole, A-coded
Supply voltage		
Operating voltage	24 V (18 V DC ... 30 V DC)	24 V (18 V DC ... 30 V DC)
Power consumption of module electronics	100 mA typical	100 mA typical
Module supply	16 A	16 A
Digital inputs		
Input current, low	Type 1 in acc. with IEC 61131-2	Type 1 in acc. with IEC 61131-2
Input current, high	Type 1 in acc. with IEC 61131-2	Type 1 in acc. with IEC 61131-2
Status indicator	Per channel, via LED, yellow	Per channel, via LED, yellow
Diagnostic display	Per channel, via LED, red	Per channel, via LED, red
Digital outputs		
max. current-carrying capacity per output signal	2 A	2 A
Output voltage, low	min. (UL -1)	min. (UL -1)
Output voltage, high	max. 2 V	max. 2 V
Status indicator	Per channel, via LED, yellow	Per channel, via LED, yellow
Diagnostic display	Per channel, via LED, red	Per channel, via LED, red
Fieldbus		
Bus system	PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol	PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol
Transmission rate	10/100 MBit/s	10/100 MBit/s
Addressing	Via rotary coding switch, DCP	Via rotary coding switch, DCP
General data		
Length / Width / Height	200 mm / 59.6 mm / 17.6 mm	200 mm / 59.6 mm / 17.6 mm
Earth	500 g	500 g
Protection degree	IP67	IP67
Operating temperature	-20...70 °C	-20...70 °C
Housing main material / UL 94 flammability rating	Zinc diecast / UL 94	Zinc diecast / UL 94
Note	Download the configuration files from www.weidmueller.com	Download the configuration files from www.weidmueller.com

Ordering data

Module variants	Type	Qty.	Order No.	Type	Qty.	Order No.
8 digital inputs / 8 digital outputs	UR67-MP-HP-8DIDO-12-60M	1	**2426290000**			
16 universal channels				UR67-MP-HP-16DIO-12-60M	1	**2512840000**
Note						

Accessories

	Type	Qty.	Order No.	Type	Qty.	Order No.
M12 sensor cable	SAIL-M12G-5-1.5U	1	**9457610150**	SAIL-M12G-5-1.5U	1	**9457610150**
M12 sensor cable	SAIL-M12W-5-1.5U	1	**9457670150**	SAIL-M12W-5-1.5U	1	**9457670150**
Bus cable	IE-C5DD4UG0015MCSA70-E	1	**1044470015**	IE-C5DD4UG0015MCSA70-E	1	**1044470015**
Bus cable	IE-C5DD4UG0015MCSMCS-E	1	**1025950015**	IE-C5DD4UG0015MCSMCS-E	1	**1025950015**
Markers	ESG-M 8/20 MC NE WS	200	**1027290000**	ESG-M 8/20 MC NE WS	200	**1027290000**
Plug						
Metal plug Ethernet, Male M12, D-coded, straight	SAISM-4/8S-M12-4P D-COD	1	**1892120000**	SAISM-4/8S-M12-4P D-COD	1	**1892120000**
Note	Further cables can be found at the end of this chapter.			Further cables can be found at the end of this chapter.		

Multiprotocol

Remote I/O for digital signal conditioning

PROFINET · EtherCAT · EtherNet/IP · Multiprotocol

	UR67-MP-78-16DI-12-60M	UR67-MP-78-16DO-12-60M
		

Technical data

Connections		
Fieldbus (BUS-IN)	1x M12 female 4-pole, D-coded	1x M12 female 4-pole, D-coded
Fieldbus (BUS-OUT)	1x M12 female 4-pole, D-coded	1x M12 female 4-pole, D-coded
Supply voltage (AUX-IN)	1x 7/8" plug 5-pole	1x 7/8" plug 5-pole
Supply voltage (AUX-OUT)	1x 7/8" socket 5-pole	1x 7/8" socket 5-pole
I/O connections	8 x M12 socket 5-pole, A-coded	8 x M12 socket 5-pole, A-coded
Supply voltage		
Operating voltage	24 V (18 V DC ... 30 V DC)	24 V (18 V DC ... 30 V DC)
Power consumption of module electronics	100 mA typical	100 mA typical
Module supply	9 A, 12 A (see manual)	9 A, 12 A (see manual)
Digital inputs		
Input current, low	Type 1 in acc. with IEC 61131-2	
Input current, high	Type 1 in acc. with IEC 61131-2	
Status indicator	Per channel, via LED, yellow	
Diagnostic display	Per channel, via LED, red	
Digital outputs		
max. current-carrying capacity per output signal		2 A
Output voltage, low		min. (UL -1)
Output voltage, high		max. 2 V
Status indicator		Per channel, via LED, yellow
Diagnostic display		Per channel, via LED, red
Fieldbus		
Bus system	PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol	PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol
Transmission rate	10/100 MBit/s	10/100 MBit/s
Addressing	Via rotary coding switch, DCP	Via rotary coding switch, DCP
General data		
Length / Width / Height	206 mm / 59.6 / 17.3 mm	206 mm / 59.6 mm / 17.3 mm
Earth	520 g	520 g
Protection degree	IP67	IP67
Operating temperature	-20...70	-20...70 °C
Housing main material / UL 94 flammability rating	Zinc diecast / UL 94	Zinc diecast / UL 94
Note	Download the configuration files from www.weidmueller.com	Download the configuration files from www.weidmueller.com

Ordering data

Module variants	Type	Qty.	Order No.
16 digital inputs	UR67-MP-78-16DI-12-60M	1	**2426300000**
16 digital out			
Note			

Type	Qty.	Order No.
UR67-MP-78-16DO-12-60M	1	**2426310000**

Accessories

	Type	Qty.	Order No.
M12 sensor cable	SAIL-M12G-5-1.5U	1	**9457610150**
M12 sensor cable	SAIL-M12W-5-1.5U	1	**9457670150**
Bus cable	IE-C5DD4UG0015MCSMCS-E	1	**1025950015**
Markers	ESG-M 8/20 MC NE WS	200	**1027290000**
Note	Further cables can be found at the end of this chapter.		

Type	Qty.	Order No.
SAIL-M12G-5-1.5U	1	**9457610150**
SAIL-M12W-5-1.5U	1	**9457670150**
IE-C5DD4UG0015MCSMCS-E	1	**1025950015**
ESG-M 8/20 MC NE WS	200	**1027290000**
Further cables can be found at the end of this chapter.		

Multiprotocol

Remote I/O for digital signal conditioning

PROFINET EtherCAT EtherNet/IP Multiprotocol

	UR67-MP-78-16DIO-12-60M	UR67-MP-78-8DIDO-12-60M
		

Technical data

Connections		
Fieldbus (BUS-IN)	1x M12 female 4-pole, D-coded	1x M12 female 4-pole, D-coded
Fieldbus (BUS-OUT)	1x M12 female 4-pole, D-coded	1x M12 female 4-pole, D-coded
Supply voltage (AUX-IN)	1x 7/8" plug 5-pole	1x 7/8" plug 5-pole
Supply voltage (AUX-OUT)	1x 7/8" socket 5-pole	1x 7/8" socket 5-pole
I/O connections	8 x M12 socket 5-pole, A-coded	8 x M12 socket 5-pole, A-coded
Supply voltage		
Operating voltage	24 V (18 V DC ... 30 V DC)	24 V (18 V DC ... 30 V DC)
Power consumption of module electronics	100 mA typical	100 mA typical
Module supply	9 A, 12 A (see manual)	9 A, 12 A (see manual)
Digital inputs		
Input current, low	Type 1 in acc. with IEC 61131-2	Type 1 in acc. with IEC 61131-2
Input current, high	Type 1 in acc. with IEC 61131-2	Type 1 in acc. with IEC 61131-2
Status indicator	Per channel, via LED, yellow	Per channel, via LED, yellow
Diagnostic display	Per channel, via LED, red	Per channel, via LED, red
Digital outputs		
max. current-carrying capacity per output signal	2 A	2 A
Output voltage, low	min. (UL -1)	min. (UL -1)
Output voltage, high	max. 2 V	max. 2 V
Status indicator	Per channel, via LED, yellow	Per channel, via LED, yellow
Diagnostic display	Per channel, via LED, red	Per channel, via LED, red
Fieldbus		
Bus system	PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol	PROFINET V2.3, EtherNet/IP, EtherCAT, Multiprotocol
Transmission rate	10/100 MBit/s	10/100 MBit/s
Addressing	Via rotary coding switch, DCP	Via rotary coding switch, DCP
General data		
Length / Width / Height	206 mm / 59.6 mm / 17.3 mm	206 mm / 59.6 mm / 17.3 mm
Earth	500 g	520 g
Protection degree	IP67	IP67
Operating temperature	-20...70 °C	-20...70 °C
Housing main material / UL 94 flammability rating	Zinc diecast / UL 94	Zinc diecast / UL 94
Note	Download the configuration files from www.weidmueller.com	Download the configuration files from www.weidmueller.com

Ordering data

Module variants	Type	Qty.	Order No.	Type	Qty.	Order No.
16 universal channels	UR67-MP-78-16DIO-12-60M	1	**2512830000**			
8 digital inputs / 8 digital outputs				UR67-MP-78-8DIDO-12-60M	1	**2426320000**
Note						

Accessories

	Type	Qty.	Order No.	Type	Qty.	Order No.
M12 sensor cable	SAIL-M12G-5-1.5U	1	**9457610150**	SAIL-M12G-5-1.5U	1	**9457610150**
M12 sensor cable	SAIL-M12W-5-1.5U	1	**9457670150**	SAIL-M12W-5-1.5U	1	**9457670150**
Bus cable	IE-C5DD4UG0015MCSMCS-E	1	**1025950015**	IE-C5DD4UG0015MCSMCS-E	1	**1025950015**
Markers	ESG-M 8/20 MC NE WS	200	**1027290000**	ESG-M 8/20 MC NE WS	200	**1027290000**
Note	Further cables can be found at the end of this chapter.			Further cables can be found at the end of this chapter.		

Multiprotocol
Remote I/O for digital signal conditioning

	UR67-PN-V14-CU-8DIDO-12	UR67-PN-V14-CU-16DI-12
		

Technical data

Module variants		
Module variants	8 digital inputs, 8 digital outputs	16 digital inputs
Connections		
Fieldbus (BUS-IN)	V14 PushPull RJ45	V14 PushPull RJ45
Fieldbus (BUS-OUT)	V14 PushPull RJ45	V14 PushPull RJ45
Supply voltage (AUX-IN)	PushPull-Power	PushPull-Power
Supply voltage (AUX-OUT)	PushPull-Power	PushPull-Power
I/O connections	8 x M12 socket 5-pole, A-coded	8 x M12 socket 5-pole, A-coded
Supply voltage		
Operating voltage	24 V (18 V DC ... 30 V DC)	24 V (18 V DC ... 30 V DC)
Max. total current module	150 mA	150 mA
Module supply	16 A	16 A
Digital inputs		
Number	8	16
Input type	P-switching, Type 2 in acc. with IEC 61131-2	P-switching, Type 2 in acc. with IEC 61131-2
Input voltage, high	> 11 V	> 11 V
Input voltage, low	<5 V	<5 V
Sensor connection	2-wire, 3-wire + FE, M12, 5 pole, A coded	2-wire, 3-wire + FE, M12, 5 pole, A coded
Digital outputs		
Number	8	
Max. total current outputs	2 A per channel, 16 A per module	
Switching frequency, resistive load	500 Hz	
Switching frequency, inductive load	0.2 Hz without free-wheeling diode, 500 Hz with suitable free-wheeling diode	
Switching frequency, lamp load	10 Hz	
Short-circuit proof	Yes	
Fieldbus		
Bus system	PROFINET V2.3	PROFINET V2.3
Addressing	DCP	DCP
Transmission rate	100 MBit/s	100 MBit/s
General data		
Length / Width / Height	225 mm / 60 mm / 43 mm	225 mm / 60 mm / 43 mm
Weight	970 g	965 g
Protection degree	IP67	IP67
Operating temperature	-20...55 °C	-20...55 °C
Housing main material / UL 94 flammability rating	Zinc diecast / UL 94	Zinc diecast / UL 94
Note		

Ordering data

Module variants	Type	Qty.	Order No.	Type	Qty.	Order No.
8 digital inputs / 8 digital outputs	UR67-PN-V14-CU-8DIDO-12	1	**2599670000**			
16 digital inputs				UR67-PN-V14-CU-16DI-12	1	**2599680000**
Note						

Multiprotocol
Remote I/O for digital signal conditioning

	UR67-PN-V14-POF-8DIDO-12	UR67-PN-V14-POF-16DI-12
		

Technical data

Module variants		
Module variants	8 digital inputs, 8 digital outputs	16 digital inputs
Connections		
Fieldbus (BUS-IN)	V14 PushPull SC-RJ POF	V14 PushPull SC-RJ POF
Fieldbus (BUS-OUT)	V14 PushPull SC-RJ POF	V14 PushPull SC-RJ POF
Supply voltage (AUX-IN)	PushPull-Power	PushPull-Power
Supply voltage (AUX-OUT)	PushPull-Power	PushPull-Power
I/O connections	8 x M12 socket 5-pole, A-coded	8 x M12 socket 5-pole, A-coded
Supply voltage		
Operating voltage	24 V (18 V DC ... 30 V DC)	24 V (18 V DC ... 30 V DC)
Max. total current module	150 mA	150 mA
Module supply	16 A	16 A
Digital inputs		
Number	8	16
Input type	P-switching, Type 2 in acc. with IEC 61131-2	P-switching, Type 2 in acc. with IEC 61131-2
Input voltage, high	> 11 V	> 11 V
Input voltage, low	<5 V	<5 V
Sensor connection	2-wire, 3-wire + FE, M12, 5 pole, A coded	2-wire, 3-wire + FE, M12, 5 pole, A coded
Digital outputs		
Number	8	
Max. total current outputs	2 A per channel, 16 A per module	
Switching frequency, resistive load	500 Hz	
Switching frequency, inductive load	0.2 Hz without free-wheeling diode, 500 Hz with suitable free-wheeling diode	
Switching frequency, lamp load	10 Hz	
Short-circuit proof	Yes	
Fieldbus		
Bus system	PROFINET V2.3	PROFINET V2.3
Addressing	DCP	DCP
Transmission rate	100 MBit/s	100 MBit/s
General data		
Length / Width / Height	225 mm / 60 mm / 51 mm	225 mm / 60 mm / 51 mm
Weight	1000 g	995 g
Protection degree	IP67	IP67
Operating temperature	-20...55 °C	-20...55 °C
Housing main material / UL 94 flammability rating	Zinc diecast / UL 94	Zinc diecast / UL 94
Note		

Ordering data

Module variants	**Type**	**Qty.**	**Order No.**	**Type**	**Qty.**	**Order No.**
8 digital inputs / 8 digital outputs	UR67-PN-V14-POF-8DIDO-12	1	**2599690000**			
16 digital out				UR67-PN-V14-POF-16DI-12	1	**2599700000**
Note						

SAI Active Universal Pro

Professional versions of the Remote I/O System featuring IP67 protection

The modules in the SAI Active Universal Pro systems provide additional I/O and functional modules for more versatile topologies in the field. The extension modules come in a compact, space-saving design. They can also be mounted on the side because of the additional drilled holes in the side of the housing. Up to 15 extension modules can be connected over a distance of 50 metres using a shielded, standard M8 sensor cable and the IP20 master module UR20-1COM-SAI-PRO.

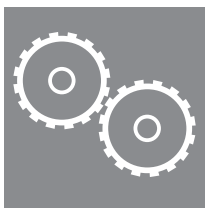
In addition to the digital input and output modules, we also offer counter unit modules and analogue modules. The digital input and output modules are also available in M8 and M12 variants. The analogue modules and functional modules are available with M12 connections. Markers are included with every SAI Active module for labelling the I/O channels and the entire device. These markers can be printed on using the PrintJet system from Weidmüller.

Cost-effective Subbus system

Subbus modules are wired up using conventional, shielded, standard M8 sensor cables. Thus there is no need for expensive custom cables. The extension modules enable versatile expansion and minimise the costs associated with the fieldbus interface. The modules do not, however, detract from the performance of the fieldbus system.

Simplified installation

The modules have a compact, space-saving design with additional holes drilled on the side of the housing: this allows them to be installed in a quick and versatile manner. All SAI Active modules with digital inputs or digital outputs are optionally available with standard M8 or M12 connection systems. The outputs are short-circuit-proof and protected against polarity reversal.



Efficient engineering

All Pro system modules are described in the standardised fieldbus specific device description files. They can be integrated into any controller unit and corresponding engineering system regardless of the particular manufacturer. The configuration (whether for the input, DESINA input, or output) is carried out without any additional software. Any user can configure directly from the engineering system.

Subbus modules with digital input/outputs

SAI-AU Digital

SAI-AU Digital

Technical data

Connections		
Supply voltage (AUX-IN)		1x M12 plug 5-pole, A-coded
Connection to Subbus (SUB-IN)	1 x M8 plug 4-pole, A-coded	1 x M8 plug 4-pole, A-coded
Connection to Subbus (SUB-OUT)	1 x M8 female 4-pole, A-coded	1 x M8 female 4-pole, A-coded
I/O connections	8 x M8 socket 3-pole	8 x M8 socket 3-pole
Supply voltage		
Operating voltage	24 V (18 V DC ... 30 V DC)	24 V (18 V DC ... 30 V DC)
Contact load		Per PIN max. 4 A
Max. total current module		8 A
Digital inputs		
Permitted input voltage	-30 V to +30 V (protected against polarity reversal)	-30 V to +30 V (protected against polarity reversal)
Input voltage, low	<5 V in accordance with EN 61131-2 Type 1	<5 V in accordance with EN 61131-2 Type 1
Input voltage, high	>15 V in accordance with EN 61131-2 Type 1	>15 V in accordance with EN 61131-2 Type 1
Input current, low	< 15 mA in accordance with EN 61131-2 Type 1	< 15 mA in accordance with EN 61131-2 Type 1
Input current, high	2 mA to 15 mA in accordance with EN 61131-2 Type 1	2 mA to 15 mA in accordance with EN 61131-2 Type 1
Input filter	1 ms, 3 ms, 5 ms, 10 ms, configurable	1 ms, 3 ms, 5 ms, 10 ms, configurable
Separation of potentials to module electronics	none	none
Digital outputs		
max. current-carrying capacity per output signal		0.5 A
Separation of potentials to module electronics		none
Switching frequency, resistive load		max. 100 Hz
Switching frequency, inductive load		max. 1 Hz
Switching frequency, lamp load		max. 8 Hz
Short-circuit proof		Yes, cut-off for short circuit and error message
Output voltage, low		0 V DC
Output voltage, high		Supply voltage less 0.7 V DC
Max. total current outputs		4 A
Fieldbus		
Bus system	Subbus	Subbus
Addressing	automatic	automatic
System integration	automatic	automatic
General data		
Length / Width / Height	155 mm / 30 / 32 mm	180 mm / 30 / 32 mm
Earth	< 200 g	< 200 g
Protection degree	IP67	IP67
Operating temperature	0...60	0...60
Storage temperature	-25 °C...85 °C	-25 °C...85 °C
Housing main material / UL 94 flammability rating	Pocan, PBT / 5VA	Pocan, PBT / 5VA
Certificate	CE, cULus	CE, cULus
Note		

Ordering data

Module variants	Type	Qty.	Order No.	Type	Qty.	Order No.
8 digital in; 8 digital in / 8 digital out	SAI-AU M8 SB 8DI	1	1938600000	SAI-AU M8 SB 8DIO	1	1938630000
8 digital inputs; 8 digital inputs / 8 digital outputs	SAI-AU M12 SB 8DI	1	1938610000	SAI-AU M12 SB 8DIO	1	1938640000
8 digital outputs 2A				SAI-AU M8 SB 8DO 2A	1	1938660000
8 digital outputs 2A				SAI-AU M12 SB 8DO 2A	1	1938680000
Note						

Accessories

Miscellaneous accessories	Type	Qty.	Order No.	Type	Qty.	Order No.
Marker, transparent	ESG 8/13.5/43.3 SAI AU	5	1912130000	ESG 8/13.5/43.3 SAI AU	5	1912130000
M12 protective cap	SAI-SK-M12-UNI 2029	20	2330260000	SAI-SK-M12-UNI 2029	20	2330260000
M8 protective cap	SAI-SK M8	50	1802760000	SAI-SK M8	50	1802760000
Note	Further cables can be found at the end of this chapter.			Further cables can be found at the end of this chapter.		

Subbus modules with analogue input/outputs

SAI-AU analogue

SAI-AU analogue

Technical data

Connections		
Connection to Subbus (SUB-IN)	1 x M8 plug 4-pole, A-coded	1 x M8 plug 4-pole, A-coded
Connection to Subbus (SUB-OUT)	1 x M8 female 4-pole, A-coded	1 x M8 female 4-pole, A-coded
I/O connections	4 x M12 female, 5-pole A-coded	4 x M12 female, 5-pole A-coded
Supply voltage		
Operating voltage	24 V (18 V DC ... 30 V DC)	24 V (18 V DC ... 30 V DC)
Analogue inputs		
Measurement range		-10 V ... +10 V, 0 V ... 10V, 0 ... 20 mA, 4...20 mA
Maximum input voltage in relation to GND		35 V
Input resistance (load)		<125 Ohm
Max. input current (differential)		-50 mA to +50 mA (protected against polarity reversal)
Short-circuit proof		Yes
Resolution / Precision	/	12-bit / < 0.2 %
Analogue outputs		
Measurement range	-10 V ... +10 V, 0 V ... 10V, 0 ... 20 mA, 4...20 mA	
Output interval	5 ms to 250 ms (can be configured)	
Short-circuit proof	Yes	
Resolution / Precision	12-bit / < 0.2 %	/
Fieldbus		
Bus system	Subbus	Subbus
Addressing	automatic	automatic
System integration	automatic	automatic
General data		
Length / Width / Height	155 mm / 30 / 32 mm	155 mm / 30 / 32 mm
Earth	< 200 g	< 200 g
Protection degree	IP67	IP67
Operating temperature	0...60	0...60
Storage temperature	-25 °C...85 °C	-25 °C...85 °C
Housing main material / UL 94 flammability rating	Pocan, PBT / 5VA	Pocan, PBT / 5VA
Certificate	CE, cULus	CE, cULus
Note		

Ordering data

Module variants	Type	Qty.	Order No.
4 analogue outputs / 4 analogue inputs	SAI-AU M12 SB 4AO	1	**1938700000**
Note			

Type	Qty.	Order No.
SAI-AU M12 SB 4AI	1	**1938690000**

Accessories

Miscellaneous accessories	Type	Qty.	Order No.
Marker, transparent	ESG 8/13.5/43.3 SAI AU	5	**1912130000**
M12 protective cap	SAI-SK-M12-UNI 2029	20	**2330260000**
M8 protective cap	SAI-SK M8	50	**1802760000**
Note	Further cables can be found at the end of this chapter.		

Type	Qty.	Order No.
ESG 8/13.5/43.3 SAI AU	5	**1912130000**
SAI-SK-M12-UNI 2029	20	**2330260000**
SAI-SK M8	50	**1802760000**
Further cables can be found at the end of this chapter.		

Subbus modules with functional inputs

SAI-AU Counter

Technical data

Connections	
Supply voltage (AUX-IN)	1x M12 plug 5-pole, A-coded
Connection to Subbus (SUB-IN)	1 x M8 plug 4-pole, A-coded
Connection to Subbus (SUB-OUT)	1 x M8 female 4-pole, A-coded
I/O connections	4 x M12 female, 5-pole A-coded
Supply voltage	
Operating voltage	24 V (18 V DC ... 30 V DC)
Contact load	Per PIN max. 4 A
Max. total current module	8 A
Functional inputs	
Counting breadth	32 Bit
Switching frequency	100 kHz
Number of inputs	2x release, 2x counter, 2 x count directions
Fieldbus	
Bus system	Subbus
Addressing	automatic
System integration	automatic
General data	
Length / Width / Height	180 mm / 30 / 32 mm
Earth	< 200 g
Protection degree	IP67
Operating temperature	0...60
Storage temperature	-25 °C...85 °C
Housing main material / UL 94 flammability rating	Pocan, PBT / 5VA
Certificate	CE, cULus
Note	

Ordering data

Module variants	Type	Qty.	Order No.
2 counter inputs / 2 gate outputs	SAI-AU M12 SB 2COUNTER	1	**1938730000**
Note			

Accessories

Miscellaneous accessories	Type	Qty.	Order No.
Marker, transparent	ESG 8/13.5/43.3 SAI AU	5	**1912130000**
M12 protective cap	SAI-SK-M12-UNI 2029	20	**2330260000**
M8 protective cap	SAI-SK M8	50	**1802760000**
Note	Further cables can be found at the end of this chapter.		

SAI cable

In an increasingly digital environment, the reliable transmission of power, signals and data requires the rapid availability of standardised cabling solutions and the development of individual special cables.
Irrespective of whether you require signal cables for sensor lines or data cables for Ethernet lines with different mating profiles – Weidmüller offers the right solution for every field of application.

We offer a wide range of products in this category:

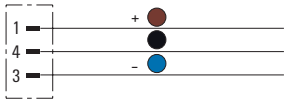
- Standard cables from the catalogue
- Configuration of specialised variants using the online product wizard
- Customer-specific variants with custom cable lengths, connecting plugs, markings or colours

Sensor cables from Weidmüller: shown here with yellow and black cables, together with bus cables

M12 cables with connector at one end only

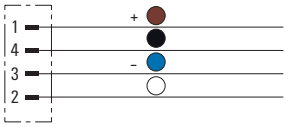
3-pole

Female



4-pole

Female



Technical data

Rated current	4 A	4 A
Rated voltage	250 V	250 V
Temperature range of housing	-25...+85 °C	-25...+85 °C
Core cross-section	0.34 mm²	0.34 mm²
Protection degree	IP65, IP66, IP67, IP68, IP69, when screwed in	IP65, IP66, IP67, IP68, IP69, when screwed in
Contact surface	Gold-plated	Gold-plated
Sheath material	PVC	PVC
Insulation	PVC	PVC
Note	Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)	Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

Ordering data

Female, straight	**Type**	**Qty.**	**Order No.**	**Type**	**Qty.**	**Order No.**
M12 straight socket, PVC	SAIL-M12BG-3-1.5V	1	**1925570150**	SAIL-M12BG-4-1.5T	1	**1968580150**
M12 straight socket, halogen-free PUR	SAIL-M12BG-3-1.5U	1	**9457820150**	SAIL-M12BG-4-1.5U	1	**9457730150**
M12 straight socket, halogen-free PUR, yellow	SAIL-M12BG-3-1.5UGE	1	**1092910150**	SAIL-M12BG-4-1.5UGE	1	**1092920150**
M12 straight socket, halogen-free PUR, resistant to welding beads	SAIL-M12BG-3-1.5T	1	**1968590150**	SAIL-M12BG-4-1.5V	1	**1925580150**
Female, angled						
M12 angled socket, PVC	SAIL-M12BW-3-1.5V	1	**1925630150**	SAIL-M12BW-4-1.5V	1	**1925640150**
M12 angled socket, halogen-free PUR	SAIL-M12BW-3-1.5U	1	**9457320150**	SAIL-M12BW-4-1.5U	1	**9457740150**
M12 angled socket, halogen-free PUR, yellow	SAIL-M12BW-3-1.5UGE	1	**1092940150**	SAIL-M12BW-4-1.5UGE	1	**1092960150**
M12 angled socket, halogen-free PUR, resistant to welding beads	SAIL-M12BW-3-1.5T	1	**1968560150**	SAIL-M12BW-4-1.5T	1	**1968570150**
Note	Other lengths on request			Other lengths on request		

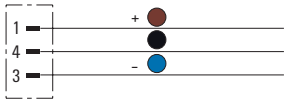
Accessories

Tools	**Type**	**Qty.**	**Order No.**	**Type**	**Qty.**	**Order No.**
Cutting tool	KT 8	1	**9002650000**	KT 8	1	**9002650000**
Sheathing strippers, For UTP and STP data cables	AM 12	1	**9030060000**	AM 12	1	**9030060000**
Mounting tool	SCREWTY-M12-DM	1	**1900001000**	SCREWTY-M12-DM	1	**1900001000**
	SAI-SCREWTY BOX	1	**1939180000**	SAI-SCREWTY BOX	1	**1939180000**
	STRIPPER 6-16 RED-LINE	1	**9203110000**	STRIPPER 6-16 RED-LINE	1	**9203110000**
Marking tags						
Transparent sleeves	TM-I 18 MC NE WS	320	**1718431044**	TM-I 18 MC NE WS	320	**1718431044**
Insertion label. yellow. 18 mm	TM-I 18 MC NE GE	320	**1718431687**	TM-I 18 MC NE GE	320	**1718431687**
Note						

M8 cables with connector at one end only

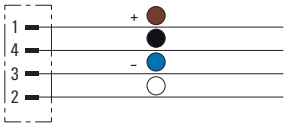
3-pole

Female



4-pole

Female



Technical data

Rated current	4 A	4 A
Rated voltage	60 V	30 V
Temperature range of housing	-25...+85 °C	-25...+85 °C
Core cross-section	0.25 mm²	0.25 mm²
Protection degree	IP65, IP66, IP67, IP68, IP69, when screwed in	IP65, IP66, IP67, IP68, IP69, when screwed in
Contact surface	Gold-plated	Gold-plated
Sheath material	PVC	PVC
Insulation	PVC	PVC
Note	Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)	Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

Ordering data

Female, straight	**Type**	**Qty.**	**Order No.**	**Type**	**Qty.**	**Order No.**
M8 straight socket, PVC	SAIL-M8BG-3-1.5V	1	**1927240150**	SAIL-M8BG-4-1.5V	1	**1927260150**
M8 straight socket, halogen-free PUR	SAIL-M8BG-3-1.5U	1	**9457450150**	SAIL-M8BG-4-1.5U	1	**9457850150**
M8 straight socket, halogen-free PUR, yellow	SAIL-M8BG-3-1.5UGE	1	**1093190150**	SAIL-M8BG-4-1.5UGE	1	**1093200150**
Female, angled						
M8 angled socket, PVC	SAIL-M8BW-3-1.5V	1	**1927320150**	SAIL-M8BW-4-1.5V	1	**1927340150**
M8 angled socket, halogen-free PUR	SAIL-M8BW-3-1.5U	1	**9457380150**	SAIL-M8BW-4-1.5U	1	**9456150150**
M8 angled socket, halogen-free PUR, yellow	SAIL-M8BW-3-1.5UGE	1	**1093220150**	SAIL-M8BW-4-1.5UGE	1	**1093240150**
Note	Other lengths on request			Other lengths on request		

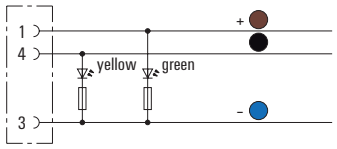
Accessories

Tools	**Type**	**Qty.**	**Order No.**	**Type**	**Qty.**	**Order No.**
Cutting tool	KT 8	1	**9002650000**	KT 8	1	**9002650000**
Sheathing strippers, For UTP and STP data cables	AM 12	1	**9030060000**	AM 12	1	**9030060000**
Mounting tool	SCREWTY-M12-DM	1	**1900001000**	SCREWTY-M12-DM	1	**1900001000**
	SAI-SCREWTY BOX	1	**1939180000**	SAI-SCREWTY BOX	1	**1939180000**
	STRIPPER 6-16 RED-LINE	1	**9203110000**	STRIPPER 6-16 RED-LINE	1	**9203110000**
Marking tags						
Transparent sleeves	TM-I 18 MC NE WS	320	**1718431044**	TM-I 18 MC NE WS	320	**1718431044**
Insertion label. yellow. 18 mm	TM-I 18 MC NE GE	320	**1718431687**	TM-I 18 MC NE GE	320	**1718431687**
Note						

M12 / M8 cables with connector at one end only with LED

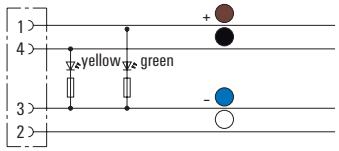
3-pole / 2 LEDs

Female



4-pole / 2 LEDs

Female



Technical data

Rated current	4 A	4 A
Rated voltage	24 V	24 V
Temperature range of housing	-25...+85 °C	-25...+85 °C
Core cross-section	0.34 mm²	0.34 mm²
Protection degree	IP65, IP66, IP67, IP68, when screwed in	IP65, IP66, IP67, IP68, when screwed in
Contact surface	Gold-plated	Gold-plated
Sheath material	PVC	PVC
Insulation	PVC	PVC
Note	Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)	Further technical data of the cables on catalog.weidmueller.com and in Chapter W (Technical Annex)

Ordering data

Female, angled	**Type**	**Qty.**	**Order No.**
M12 angled socket, PVC	SAIL-M12BW-3L1.5V	1	**1925460150**
M12 angled socket, halogen-free PUR	SAIL-M12BW-3L1.5U	1	**9457800150**
M12 angled socket, halogen-free PUR, yellow	SAIL-M12BW-3L1.5UGE	1	**1114880150**
M12 angled socket, halogen-free PUR, resistant to welding beads	SAIL-M12BW-3L1.5T	1	**1004330150**
M8 angled socket, PVC	SAIL-M8BW-3L1.5V	1	**1927350150**
M8 angled socket, halogen-free PUR	SAIL-M8BW-3L1.5U	1	**9457460150**
M8 angled socket, halogen-free PUR, yellow	SAIL-M8BW-3L1.5UGE	1	**1093210150**
Note	Other lengths on request		

Female, angled	**Type**	**Qty.**	**Order No.**
M12 angled socket, PVC	SAIL-M12BW-4-2L1.5V	1	**1925470150**
M12 angled socket, halogen-free PUR	SAIL-M12BW-4-2L1.5U	1	**9456380150**
M12 angled socket, halogen-free PUR, yellow	SAIL-M12BW-4-2L1.5UGE	1	**1092950150**
M12 angled socket, halogen-free PUR, resistant to welding beads	SAIL-M12BW-4-2L1.5T	1	**1007000150**
M8 angled socket, PVC	SAIL-M8BW-4L1.5V	1	**1927360150**
M8 angled socket, halogen-free PUR	SAIL-M8BW-4L1.5U	1	**1906400150**
M8 angled socket, halogen-free PUR, yellow	SAIL-M8BW-4L1.5UGE	1	**1093230150**
Note	Other lengths on request		

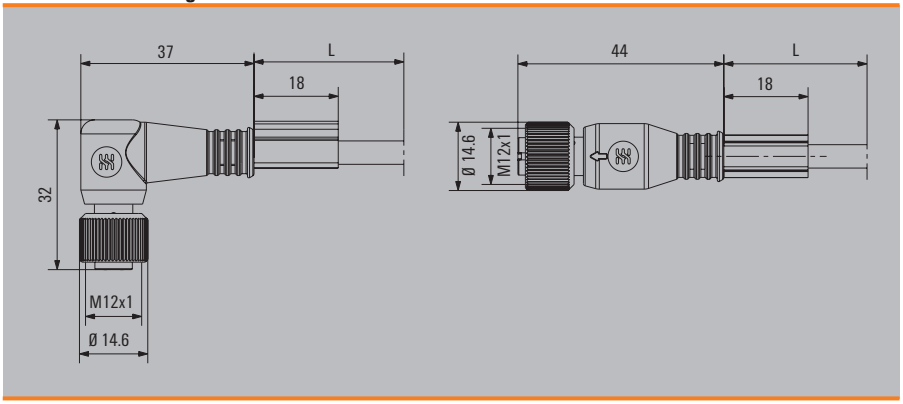
Accessories

Tools	**Type**	**Qty.**	**Order No.**
Cutting tool	KT 8	1	**9002650000**
Sheathing strippers, For UTP and STP data cables	AM 12	1	**9030060000**
Mounting tool	SCREWTY-M12-DM	1	**1900001000**
	SAI-SCREWTY BOX	1	**1939180000**
	STRIPPER 6-16 RED-LINE	1	**9203110000**
Marking tags			
Transparent sleeves	TM-I 18 MC NE WS	320	**1718431044**
Insertion label. yellow. 18 mm	TM-I 18 MC NE GE	320	**1718431687**
Note			

Tools	**Type**	**Qty.**	**Order No.**
Cutting tool	KT 8	1	**9002650000**
Sheathing strippers, For UTP and STP data cables	AM 12	1	**9030060000**
Mounting tool	SCREWTY-M12-DM	1	**1900001000**
	SAI-SCREWTY BOX	1	**1939180000**
	STRIPPER 6-16 RED-LINE	1	**9203110000**
Marking tags			
Transparent sleeves	TM-I 18 MC NE WS	320	**1718431044**
Insertion label. yellow. 18 mm	TM-I 18 MC NE GE	320	**1718431687**
Note			

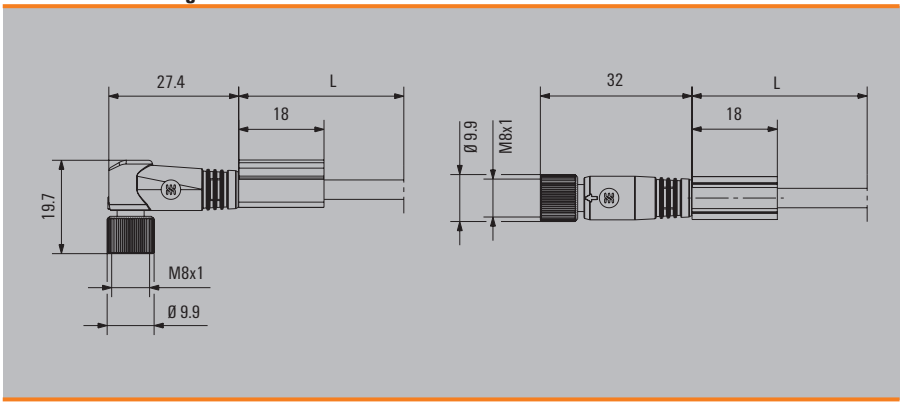
M12 straight/angled socket

Dimensioned drawing



M8 straight/angled socket

Dimensioned drawing



Screwty® set -DM

Contents:

- 1x interchangeable bit
- 1x torque handle
- 1x adjustment aid for Screwty® torque (M8: 0.5 - 0.6 Nm / M12: 0.8 - 1.2 Nm)
- 1x Screwty® M12, M8, M12 F, M8 F attachment

Ordering data

Type	Qty.	Order No.
Screwty®-Set-DM	1	1920000000

Quick selection IP67 Remote I/O modules

Selection table

Order No.	Product designation	Connection system				Communication				
		M8	M12	7/8"	PushPull	Subbus	PROFIBUS	PROFINET	MP = PN, EIP & EC	
	u-remote UR67									
2426250000	UR67-PN-HP-8IOL-12-30M		X					X		
2426260000	UR67-PN-HP-8IOL-12-60M		X					X		
2426270000	UR67-MP-HP-16DI-12-60M		X						X	
2426280000	UR67-MP-HP-16DO-12-60M		X						X	
2512840000	UR67-MP-HP-16DIO-12-60M		X						X	
2426290000	UR67-MP-HP-8DIDO-12-60M		X						X	
2426320000	UR67-MP-78-8DIDO-12-60M			X					X	
2426300000	UR67-MP-78-16DI-12-60M			X					X	
2426310000	UR67-MP-78-16DO-12-60M			X					X	
2512830000	UR67-MP-78-16DIO-12-60M			X					X	
2599670000	UR67-PN-V14-CU-8DIDO-12				X			X		
2599680000	UR67-PN-V14-CU-16DI-12				X			X		
2599690000	UR67-PN-V14-POF-8DIDO-12				X			X		
2599700000	UR67-PN-V14-POF-16DI-12				X			X		
	SAI Active Universal Pro									
1938600000	SAI-AU M8 SB 8DI	X				X				
1938660000	SAI-AU M8 SB 8DO 2A	X				X				
1938630000	SAI-AU M8 SB 8DIO	X				X				
1938610000	SAI-AU M12 SB 8DI		X			X				
1938680000	SAI-AU M12 SB 8DO 2A		X			X				
1938640000	SAI-AU M12 SB 8DIO		X			X				
1938690000	SAI-AU M12 SB 4AI		X			X				
1938700000	SAI-AU M12 SB 4AO		X			X				
1938730000	SAI-AU M12 SB 2Counter		X			X				

	Inputs				Outputs					Page
	IO-Link	Digital	Analogue	Counter	Digital	Output current	Analogue	Output range	Supply voltage feed circuits	
	4xType A & 4xType B									C.150
	4xType A & 4xType B									C.150
		16								C.151
					16	2 A				C.151
		16			16	2 A				C.152
		8			8	2 A				C.152
		8			8	2 A				C.154
		16								C.153
					16	2 A				C.153
		16			16	2 A				C.154
		8			8	2 A				C.155
		16								C.155
		8			8	2 A				C.156
		16								C.156
		8								C.159
					8	2 A			2	C.159
		max. 8, min. 0 (can be configured)			max. 8, min. 0 (can be configured)	0.5 A			2	C.159
		8								C.159
					8	2 A			2	C.159
		max. 8, min. 0 (can be configured)			max. 8, min. 0 (can be configured)	0.5 A			2	C.159
			4							C.160
							4	-10...+10 V, 0...+10 V, 0...20 mA, 4...20 mA		C.160
				2					2	C.161

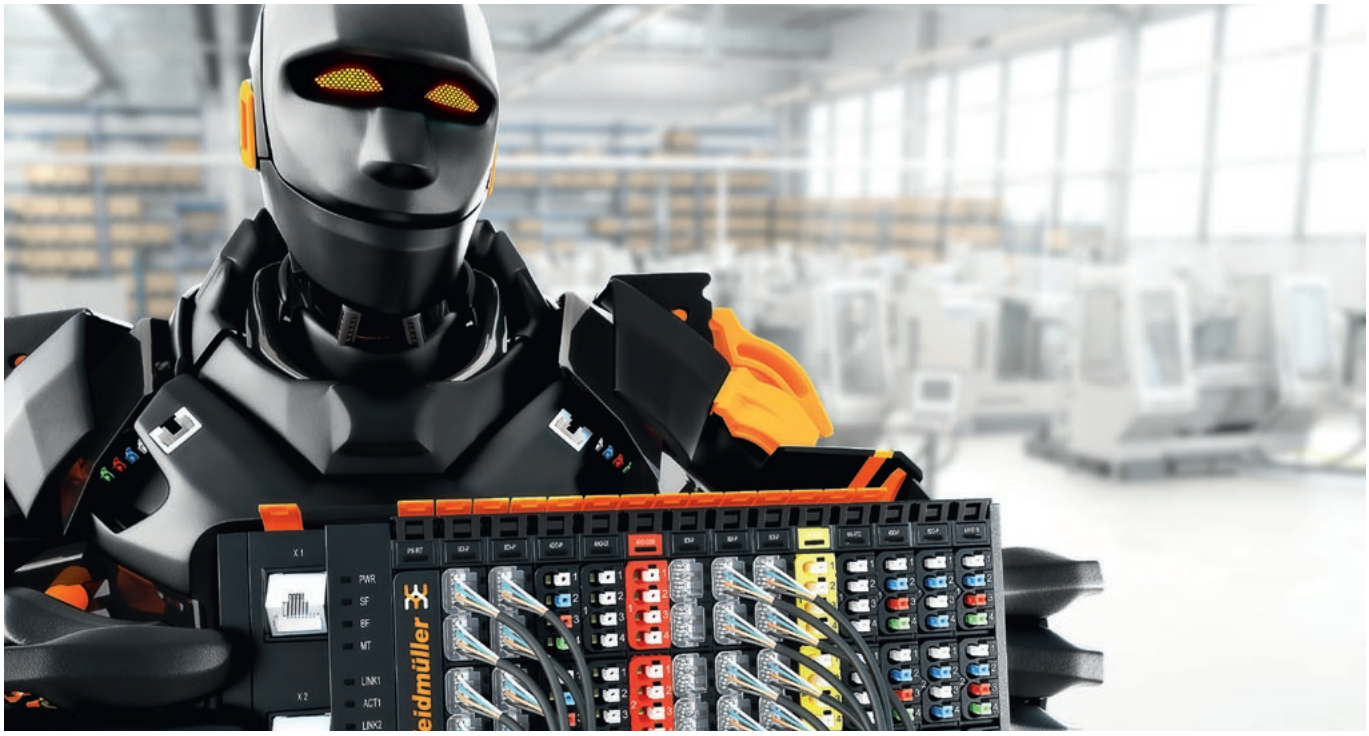
Configuration and parameterisation of complex I/O modules

Maximum flexibility with reduced complexity with the u-mation configurator

All Weidmüller remote I/O modules can be adapted flexibly to the characteristics of your application with the help of the web server integrated into every fieldbus coupler. For more complex functions, like I/O Link or CANopen, the u-mation configurator is also available to download free of charge from the Weidmüller Support Center. It can be used to easily integrate connected devices from the field level from third party providers that can communicate via u-remote.

Configure and parameterise the specific, technical features of u-remote modules or third party devices from the field level through the user-friendly interface with just a few clicks. Keep an overview of the diverse available setting options. The u-mation configurator is based on standard web technology, and integrates very easily into your existing infrastructure – meaning you are not OS dependent and can freely choose your device.

The u-mation configurator is available for download in our Support Center:
www.weidmueller.com/u-mation-configurator



Your advantages for IO-Link:

- Simple configuration: install IIOD data, locally or via the integrated Web-Finder
- Clear parameterisation: Display all setting options using the convenient interface
- Additional support: for instance, display the configured process data bandwidth for IO-Link modules
- Growing configurator support: support planned for additional complex I/O modules

Your advantages for CANopen:

- Efficient configuration of the basic settings for the CANopen Manager
- Optional parameterisation of a monitoring and SYNC protocol
- Import EDS files to display, configure and parameterise CANopen devices
- Transparent display of all process data and service data objects

u-view – Touch Panels

Optimum visualisation and operation

u-view touch panels: brilliant pictures meet elegant, flat design

Comfortable touch panels simplify the monitoring and control of machines and systems. Web-based u-view HMIs from Weidmüller offer excellent image quality and can be used in an industrial environment without any restrictions.

The u-view series comprises zwei product lines:
- Eco Line (resistive web panels) in 4.3“, 7“ and 10.1“
- Advanced Line (capacitive web panels) in 7“, 10.1“, 15.6“ und 21.5“

All panels feature a particularly flat design, a robust aluminium housing and IP66 protection on the front. In addition, they also offer convenient configuration options for accessing different web servers via modern browsers. This makes them ideally suitable for future-oriented web applications, especially for web-based visualisation solutions with PROCON-WEB.

Comfortable configuration
u-view touch panels are quick and easy to configure and can therefore be set up intuitively.

Attractive design
All u-view touch panels come with particularly flat and space-saving housings.

High compatibility
u-view touch panels can be used in a wide variety of applications thanks to their modern web technology based on HTML5.

Great performance
First-class image quality and powerful processors make working with u-view touch panels particularly enjoyable.

u-view Eco or Advanced – Which product line best meets your needs?

Compared to the Eco Line, the Advanced Line offers significantly better connectivity with two independently usable Ethernet interfaces (10/100/1000 Mbit/s), two USB type A interfaces to connect external devices (like a mouse, keyboard or storage media), a high-precision capacitive multi-touch with gesture control and higher performance when displaying complex web content.

Touch Panels - Eco Line

- Resistive
- 4.3", 7" and 10.1"
- 4 GB memory
- Display material plastic

UV66-ECO-4-RES-W

UV66-ECO-7-RES-W

Technical data

General data		
Protection degree	IP66	IP66
Operating temperature	0 °C ... +50 °C	0 °C ... +50 °C
Humidity	10 - 95% relative humidity, non-condensing	10 - 95% relative humidity, non-condensing
Depth / Width / Height	36 / 120 / 89 mm	35.3 / 186 / 138 mm
Cut-Out dimension (Height)	80 mm	127 mm
Cut-Out dimension (Width)	111 mm	175 mm
Wall thickness, min./max.	2...6 mm	2...6 mm
Installation clearance (X)	51 mm	51 mm
Installation clearance (Y)	51 mm	51 mm
Installation clearance (Z)	51 mm	51 mm
Hardware specification		
Processor	Dual Core ARM® Cortex®-A9, 1 GHz, (GPU 2D / GPU 3D support)	Dual Core ARM® Cortex®-A9, 1 GHz, (GPU 2D / GPU 3D support)
Memory (Flash)	4 GB	4 GB
Memory (RAM)	1 GB	1 GB
Type of cooling	Passive cooling	Passive cooling
Firmware specification		
Operating system	Linux + Browser (HTML5)	Linux + Browser (HTML5)
Display specification		
Size	4.3"	7"
Resolution	480 x 272	800 x 480
Material display	Plastic	Plastic
Touch-Screen	resistive	resistive
Number of displayable colours	16 M	16 M
Luminance	400 cd/m²	350 cd/m²
Luminance dimmable	Yes	Yes
Viewing angle horizontal	top 60 ° / bottom 60 °	top 70 ° / bottom 70 °
Viewing angle vertical	left 55 ° / right 55 °	left 60 ° / right 60 °
Display technology	LCD TFT, LED backlight	LCD TFT, LED backlight
Housing specification		
Material frame	Plastic	Plastic
Interfaces		
Interfaces behind	1x Ethernet 10/100 MBit/s (RJ45)	1x Ethernet 10/100 MBit/s (RJ45), 1x USB-C
Power supply		
Voltage type	DC	DC
Voltage, min.	20.4V	20.4V
Voltage, max.	27.6V	27.6V
Current consumption	0.23 A	0.25 A
Note		

Ordering data

	Type	Qty.	Order No.
	UV66-ECO-4-RES-W	1	2555660000
Note			

Type	Qty.	Order No.
UV66-ECO-7-RES-W	1	2555780000

Touch Panels - Eco Line

- Resistive
- 4.3", 7" and 10.1"
- 4 GB memory
- Display material plastic

UV66-ECO-10-RES-W

Technical data

General data	
Protection degree	IP66
Operating temperature	0 °C ... +50 °C
Humidity	10 - 95% relative humidity, non-condensing
Depth / Width / Height	36.8 / 268 / 190 mm
Cut-Out dimension (Height)	178 mm
Cut-Out dimension (Width)	256 mm
Wall thickness, min./max.	2...6 mm
Installation clearance (X)	51 mm
Installation clearance (Y)	51 mm
Installation clearance (Z)	51 mm
Hardware specification	
Processor	Dual Core ARM® Cortex®-A9, 1 GHz, (GPU 2D / GPU 3D support)
Memory (Flash)	4 GB
Memory (RAM)	1 GB
Type of cooling	Passive cooling
Firmware specification	
Operating system	Linux + Browser (HTML5)
Display specification	
Size	10.1"
Resolution	1024 x 600
Material display	Plastic
Touch-Screen	resistive
Number of displayable colours	16 M
Luminance	400 cd/m²
Luminance dimmable	Yes
Viewing angle horizontal	top 60 ° / bottom 60 °
Viewing angle vertical	left 70 ° / right 70 °
Display technology	LCD TFT, LED backlight
Housing specification	
Material frame	Plastic
Interfaces	
Interfaces behind	1x Ethernet 10/100 MBit/s (RJ45)
Power supply	
Voltage type	DC
Voltage, min.	20.4V
Voltage, max.	27.6V
Current consumption	0.35 A
Note	

Ordering data

Type	Qty.	Order No.
UV66-ECO-10-RES-W	1	2555790000

Note

Touch Panels - Advanced Line

- Capacitive
- 7", 10.1" und 15.6"
- 8 GB memory
- Display material glass

UV66-ADV-7-CAP-W-V2

UV66-ADV-10-CAP-W-V2

Technical data

General data		
Protection degree	Built-in: IP66, Enclosure: IP20	Built-in: IP66, Enclosure: IP20
Operating temperature	-20 °C ... 60 °C	-20 °C ... 60 °C
Humidity	95% relative humidity, non-condensing @ 40°C	95% relative humidity, non-condensing @ 40°C
Depth / Width / Height	52 / 205 / 146.92 mm	52 / 283.1 / 202.3 mm
Cut-Out dimension (Height)	139 mm	193.3 mm
Cut-Out dimension (Width)	192.4 mm	274.1 mm
Hardware specification		
Processor	NXP® ARM® Cortex™-A53 i.MX 8M Mini	NXP® ARM® Cortex™-A53 i.MX 8M Mini
Memory (Flash)	16 GB	16 GB
Memory (RAM)	4 GB	4 GB
Type of cooling	Passive cooling	Passive cooling
Firmware specification		
Operating system	Linux Yocto 4.0.	Linux Yocto 4.0.
Display specification		
Size	7"	10.1"
Resolution	1024 x 600	1280 x 800
Material display	Glass	Glass
Touch-Screen	Projected capacitive (P-CAP)	Projected capacitive (P-CAP)
Number of displayable colours	16000000	16000000
Luminance	425 cd/m²	500 cd/m²
Luminance dimmable	Yes	Yes
Viewing angle horizontal	top 170 ° / bottom 170 °	top 170 ° / bottom 170 °
Viewing angle vertical	left 170 ° / right 170 °	left 170 ° / right 170 °
Display technology	LCD TFT, LED backlight	LCD TFT, LED backlight
Housing specification		
Material frame	Aluminium coated	Aluminium coated
Interfaces		
Interfaces behind	2x USB 2.0, 2 x Ethernet 10/100/1000 MBit/s (RJ45)	2x USB 2.0, 2 x Ethernet 10/100/1000 MBit/s (RJ45)
Power supply		
Voltage type	DC	DC
Voltage, min.	19.2V	19.2V
Voltage, max.	28.8V	28.8V
Note		

Ordering data

Module variants	Type	Qty.	Order No.
	UV66-ADV-7-CAP-W-V2	1	**2932870000**
Note			

Type	Qty.	Order No.
UV66-ADV-10-CAP-W-V2	1	**2933040000**

Touch Panels - Advanced Line

- Capacitive
- 7", 10.1" und 15.6"
- 8 GB memory
- Display material glass

UV66-ADV-15-CAP-W-V2

UV66-ADV-21-CAP-W-V2

Technical data

General data		
Protection degree	Built-in: IP66, Enclosure: IP20	Built-in: IP66, Enclosure: IP20
Operating temperature	-20 °C ... 60 °C	-20 °C ... 60 °C
Humidity	95% relative humidity, non-condensing @ 40°C	95% relative humidity, non-condensing @ 40°C
Depth / Width / Height	52 / 419.7 / 269 mm	52 / 558.4 / 349.8 mm
Cut-Out dimension (Height)	261.2 mm	341.3 mm
Cut-Out dimension (Width)	411.9 mm	549.8 mm
Hardware specification		
Processor	NXP® ARM® Cortex™-A53 i.MX 8M Mini	NXP® ARM® Cortex™-A53 i.MX 8M Mini
Memory (Flash)	16 GB	16 GB
Memory (RAM)	4 GB	4 GB
Type of cooling	Passive cooling	Passive cooling
Firmware specification		
Operating system	Linux Yocto 4.0.	Linux Yocto 4.0.
Display specification		
Size	15.6"	21.5"
Resolution	1920 x 1080	1920 x 1080
Material display	Glass	Glass
Touch-Screen	Projected capacitive (P-CAP)	Projected capacitive (P-CAP)
Number of displayable colours	16200000	16700000
Luminance	450 cd/m²	250 cd/m²
Luminance dimmable	Yes	Yes
Viewing angle horizontal	top 170 ° / bottom 170 °	top 89 ° / bottom 89 °
Viewing angle vertical	left 170 ° / right 170 °	left 89 ° / right 89 °
Display technology	LCD TFT, LED backlight	LCD TFT, LED backlight
Housing specification		
Material frame	Aluminium coated	Aluminium coated
Interfaces		
Interfaces behind	2x USB 2.0, 2 x Ethernet 10/100/1000 MBit/s (RJ45)	2x USB 2.0, 2 x Ethernet 10/100/1000 MBit/s (RJ45)
Power supply		
Voltage type	DC	DC
Voltage, min.	19.2V	19.2V
Voltage, max.	28.8V	28.8V
Note		

Ordering data

Module variants	Type	Qty.	Order No.	Type	Qty.	Order No.
	UV66-ADV-15-CAP-W-V2	1	**2932860000**	UV66-ADV-21-CAP-W-V2	1	**2987520000**
Note						

u-OS – Operating system

Independence and flexibility for your machines and facilities

u-OS – The open operating system for Industrial IoT and Automation

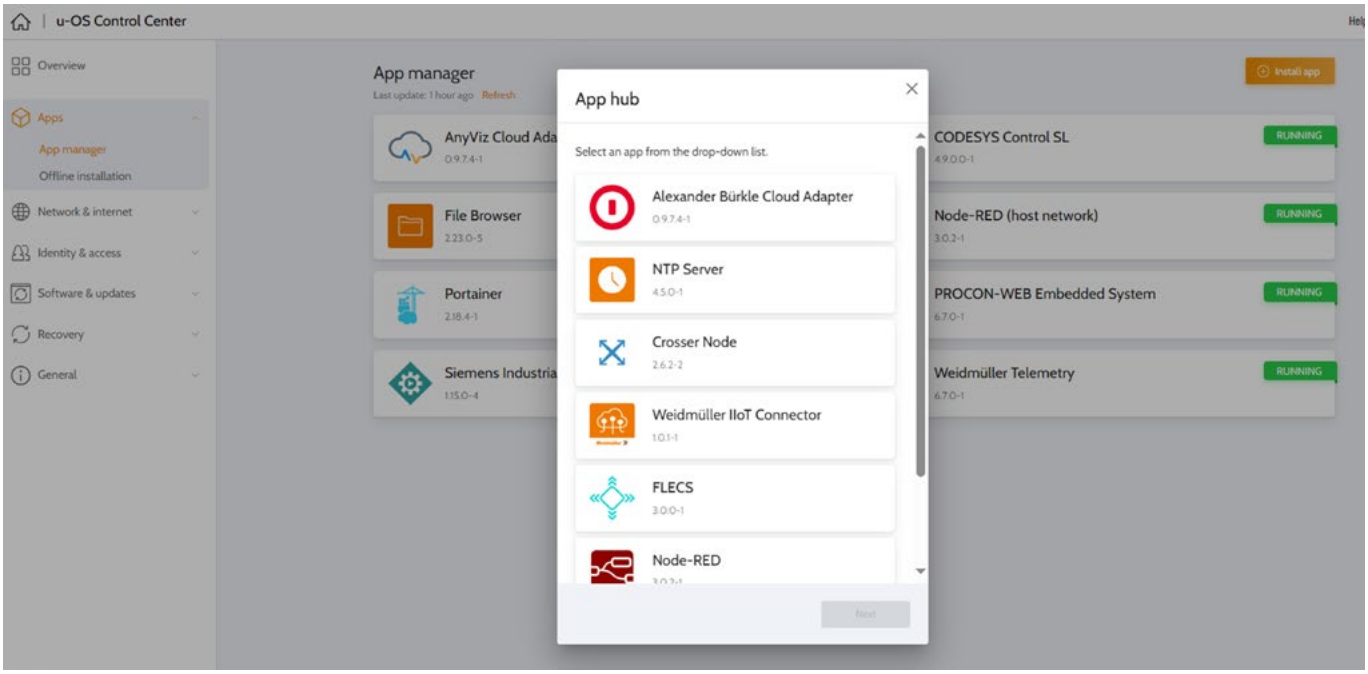
The convergence of different classes of device represents a significant development in digitalisation. Within automation, as well, the lines between controllers, routers, and gateways are becoming increasingly blurred. The operating system plays a key role in this context. For only if the latter permits integration of the hardware and software, as well as cloud and on-premises solutions, can the possibilities of automation and the Industrial IoT be united in a single device. u-OS, the open and independent operating system from Weidmüller, takes this approach.

u-OS realises its full potential on the Weidmüller automation hardware u-mation. Our approach is simple: u-OS is not another ecosystem, but rather a platform that connects different ecosystems with one another. This is the only way to integrate the possibilities offered by an Edge application in a versatile yet simple manner. You can benefit, for example, from more efficient data pre-processing and more precise control directly on the machine easily – with u-OS in your individual OT/IT stack.

u-OS Apps

The Linux-based u-OS operating system offers interfaces between customer-specific software solutions, Industrial IoT, and automation technology. The App Manager provides an overview of all installed apps, and the option of installing additional applications on u-OS. In addition to a range of Weidmüller products, solutions from our Weidmüller partners are available – such as CODESYS®, the largest independent ecosystem for automation. The apps work together, without requiring extensive programming. This saves time and lowers costs. In addition, you can adapt your own applications to u-OS via API interfaces.

Discover Weidmüller partners:
www.weidmueller.com/u-os-apps



u-OS Datahub

The u-OS Datahub serves as the foundation for seamless links between applications, and the base for easily exchanging data between the individual apps.

Open

With u-OS, open interfaces at all levels guarantee easy integration of your own applications, communication drivers, runtime environments, and cloud connections.

Flexible

u-OS can be extended and adapted to individual needs. It covers the requirements of OT and IT applications for an OS in equal measure. The App Manager allows easy use of pre-integrated functions such as CODESYS®.

Independent

The use of established open standards such as Linux, containers, or OPC UA makes u-OS independent and future-proof. Dependence on one provider is avoided.

Weidmüller u-OS target devices –
Full scope of functions for your application

Select Weidmüller target device and download the appropriate u-OS firmware **www.weidmueller.com/u-os-downloads**

u-mation Edition

Target device	u-control WL2000, M3000, M4000 and IoT Gateway
Target group	Machine and plant engineering, power, maritime applications
Target applications	Industrial automation and Industrial IoT, Edge applications
Functional scope	Datahub for easy Exchange of data, User Managment, App Manager, Certificate management, Rollout Management, License Management, Developer Kit, Secure Boot, Web-based Workspace, yocto based with linux rt, Container Runtime

Engineering Software

Just select your CODESYS® package and get in touch with your Weidmüller sales contact.

Current information is available on our website:
www.weidmueller.com/u-os-apps

U-OS-CODESYS-BASIC

For applications that solve simple and individual automation tasks.

Ordering data

Type	Code size	Max I/O	Order-No.
U-OS-CODESYS-BASIC-S	500 kB	64	**2924000000**
U-OS-CODESYS-BASIC-M	1 MB	128	**2924020000**
U-OS-CODESYS-BASIC-L	3 MB	256	**2924030000**

U-OS-CODESYS-STANDARD and U-OS-CODESYS-PERFORMANCE

For applications with more complex logic and an increased need for external communication.

Ordering data

Type	Code size	Max I/O	Order-No.
Standard			
U-OS-CODESYS-STANDARD-S	3 MB	512	**2924040000**
U-OS-CODESYS-STANDARD-M	5 MB	1.024	**2924050000**
U-OS-CODESYS-STANDARD-L	6 MB	2.048	**2924060000**
Performance			
U-OS-CODESYS-PERFORMANCE-M	8 MB	4.096	**2924070000**
U-OS-CODESYS-PERFORMANCE-L	10 MB	8.192	**2924080000**

Web-Visualisation

Ordering data

Type	Number of Tags	Order-No.
U-OS-CODESYS-VISU-M	2.048	**2924100000**
U-OS-CODESYS-VISU-L	4.096	**2924110000**
U-OS-CODESYS-VISU-XL	8.192	**2924120000**
U-OS-CODESYS-VISU-XXL	unlimited	**3012570000**

U-OS-CODESYS-COMMUNICATION

The CODESYS Communication M licence enables the use of the symbol configuration, the communication manager and the DataSource Manager.

Ordering data

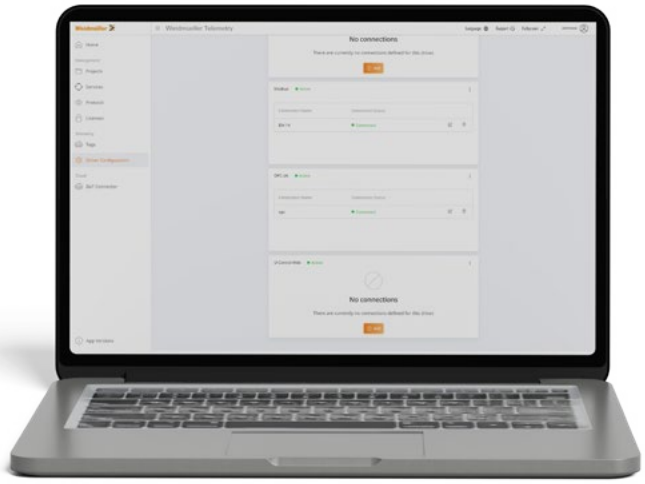
Type	Number of Tags	Order-No.
U-OS-CODESYS-COMMUNICATION M	4.096	**2984440000**
U-OS-CODESYS-COMMUNICATION XXL	unlimited	**2924130000**
U-OS-CODESYS-REDUNDANCY		**2924090000**
U-OS-CODESYS-OPC-UA-XL		**3012600000**

PROCON-Connect – Data acquisition, pre-processing and communication

PROCON-Connect –
Simple data acquisition, pre-processing and communication

Our PROCON-Connect enables the acquisition of machine data from a wide variety of controllers. It also allows local pre-processing and the use of machine data in other software systems through connectors and APIs, among other things.

The PROCON-Connect can be used for a wide range of data- and service-oriented Industrial IoT use cases. The connections to controllers, databases and the interfaces to other software solutions are conveniently configured in the browser. In addition to a comprehensive driver portfolio for connecting controllers, the PROCON-Connect uses industry-appropriate standards (such as InfluxDB or MQTT), and makes it possible to use machine data in the Weidmüller solutions ResMa® and easyConnect, among others.



- Drivers with browsing function: OPC-UA, ModbusTCP/RTU, CODESYS®, AllenBradley and drivers for u-mation PLC
- Installation of u-OS App Manager or on industrial PCs via Docker container
- Parameterisation of controller connections, databases and cloud connections via browser

Platform-independent app

Simple installation under u-OS using the App Manager and on any hardware using Docker containers.

Open standards and interfaces

Communication drivers, database technologies, APIs and cloud interfaces of the PROCON-Connect are based on open standards (e.g. OPC-UA, InfluxDB or MQTT) and, in addition to our APIs, allow seamless integration into the IIoT infrastructure.

Intuitive web engineering

Our PROCON-Connect can be configured completely in the browser at run-time. It supports engineering with project import and export functionality as well as extensive feedback for the user.

Ordering data

Type	Number of process variables, max.	Number of devices	Platform for runtime system	Order No.
P-CON RUN			Windows, Linux, Docker Container	**3053900000**
P-CON DRV CODESYS			Windows, Linux, Docker Container	**3053910000**
P-CON DRV ALLENBRADLEY			Windows, Linux, Docker Container	**3053920000**
P-CON COM 50	50		Windows, Linux, Docker Container	**3053930000**
P-CON COM 100	100		Windows, Linux, Docker Container	**3053940000**
P-CON COM 250	250		Windows, Linux, Docker Container	**3053950000**
P-CON COM 500	500		Windows, Linux, Docker Container	**3053960000**
P-CON COM 1000	1000		Windows, Linux, Docker Container	**3053970000**
P-CON COM 2500	2500		Windows, Linux, Docker Container	**3053980000**
P-CON COM 5000	5000		Windows, Linux, Docker Container	**3053990000**
P-CON COM 10000	10000		Windows, Linux, Docker Container	**3054000000**

PROCON-WEB – Visualisation software

Future-proof visualisations for Industrial IoT applications

PROCON-WEB Embedded Systems – the platform-independent HMI software

In modern Industrial IoT and automation applications, machine data must be available locally and in the cloud for all users. To ensure task-oriented provision and intuitive use, the relevant information needs to be collected and visually prepared.

PROCON-WEB Embedded Systems is a platform-independent visualisation solution ideally suited for use in modern Industrial IoT applications. Thanks to its low system requirements, it can be used on many different devices, and is also available on Weidmüller u-OS family controllers through the App Manager. The HMI is conveniently accessed via HTML5-compatible browsers and can therefore be accessed from a wide variety of end devices.

Your special advantage:

- Portable and easy-to-parametrise HMI and Industrial IoT solution
- High performance with low resource requirements
- Compatible with devices with OPC-UA server, Modbus interface, CODESYS® and u-Os PLCs
- Dynamic web interface with adaptive design and customisable control elements

Many visualisation features
Predefined control elements, user and rights management, multilingualism, data recording, recipe management, alarm and message processing, and many other features make PROCON-WEB Embedded Systems versatile.

Maximum flexibility
PROCON-WEB Embedded Systems can be used independently of hardware and operating system. Web-based visualisation, support for mobile devices, and open communication standards increase flexibility.

Efficient project planning
Project management is accelerated through features like a class-instance concept, structural support and automated project generation. Scripting and customisable control elements increase flexibility for complex requirements.

PROCON-WEB Embedded Systems – **Visualisation solutions for your Industrial IoT applications**

Ordering data

Type	Number of process variables, max.	Number of devices	Platform for runtime system	Order No.
PROCON-WEB Embedded Systems runtime licences				
PWEB-ES-RT-50/2	50	2	Windows, Linux, Docker Container	**2992900000**
PWEB-ES-RT-50/5	50	5	Windows, Linux, Docker Container	**2992910000**
PWEB-ES-RT-50/10	50	10	Windows, Linux, Docker Container	**2992890000**
PWEB-ES-RT-100/2	100	2	Windows, Linux, Docker Container	**2992810000**
PWEB-ES-RT-100/5	100	5	Windows, Linux, Docker Container	**2992820000**
PWEB-ES-RT-100/10	100	10	Windows, Linux, Docker Container	**2992800000**
PWEB-ES-RT-500/2	500	2	Windows, Linux, Docker Container	**2992930000**
PWEB-ES-RT-500/5	500	5	Windows, Linux, Docker Container	**2992940000**
PWEB-ES-RT-500/10	500	10	Windows, Linux, Docker Container	**2992920000**
PWEB-ES-RT-1000/2	1000	2	Windows, Linux, Docker Container	**2992840000**
PWEB-ES-RT-1000/5	1000	5	Windows, Linux, Docker Container	**2992850000**
PWEB-ES-RT-1000/10	1000	10	Windows, Linux, Docker Container	**2992830000**
PWEB-ES-RT-2000/2	2000	2	Windows, Linux, Docker Container	**2992870000**
PWEB-ES-RT-2000/5	2000	5	Windows, Linux, Docker Container	**2992880000**
PWEB-ES-RT-2000/10	2000	10	Windows, Linux, Docker Container	**2992860000**
PWEB-ES-RT-5000/2	5000	2	Windows, Linux, Docker Container	**2875320000**
PWEB-ES-RT-5000/5	5000	5	Windows, Linux, Docker Container	**2875330000**
PWEB-ES-RT-5000/10	5000	10	Windows, Linux, Docker Container	**2875340000**
PWEB-ES-DESIGNER-2000_FREE	2000			**3037270000**
PWEB-DESIGNER-PRO				**2857650000**
Basic Training				**2938790000**
Customer Specific Training				**2938800000**
SLA Technical Support				**2938730000**

Ordering data

Type	Number of process variables, max.	Number of devices	Platform for runtime system	Order No.
PROCON-WEB Embedded Systems runtime licences for u-OS				
U-OS-PWEB-ES-RT-250/1_free	250	1	u-OS	**2987740000**
U-OS-PWEB-ES-RT-250/2	250	2	u-OS	**3038630000**
U-OS-PWEB-ES-RT-500/2	500	2	u-OS	**2941960000**
U-OS-PWEB-ES-RT-500/5	500	5	u-OS	**2941970000**
U-OS-PWEB-ES-RT-1000/2	1000	2	u-OS	**2941980000**
U-OS-PWEB-ES-RT-1000/5	1000	5	u-OS	**2941990000**
U-OS-PWEB-ES-RT-2000/2	2000	2	u-OS	**2942000000**
U-OS-PWEB-ES-RT-2000/5	2000	5	u-OS	**2942010000**
U-OS-PWEB-ES-RT-5000/2	5000	2	u-OS	**2942020000**
U-OS-PWEB-ES-RT-5000/5	5000	5	u-OS	**2942030000**
U-OS-PWEB-ES-RT-10000/2	10000	2	u-OS	**2942040000**
U-OS-PWEB-ES-RT-10000/5	10000	5	u-OS	**2942050000**
PWEB-DESIGNER-PRO				**2857650000**
PWEB-ES-DESIGNER-2000_FREE				**3037270000**
Basic Training				**2938790000**
Customer Specific Training				**2938800000**
SLA Technical Support				**2938730000**

Operate machines and systems via browser interfaces
PROCON-WEB SCADA – the future-proof visualisation solution

Easily scalable and platform-independent HMI and SCADA solutions can be used flexibly and make relevant machine data available everywhere. They facilitate fault processing as well as data recording and management to support the control of complex processes.

PROCON-WEB SCADA as a Windows application for complex tasks simplifies the project planning of modern multi-touch-capable user interfaces for automation. The integrated web server enables the use of all HTML5-capable browsers without special plug-ins. The comprehensive portfolio of communication drivers facilitates the connection with all common control systems. Standardised open interfaces guarantee problem-free integration into any IT surroundings.

Your special advantage:

- Easy creation of modern user interfaces without knowledge of web technologies
- Dynamic web interface with adaptive design and customisable control elements
- User and rights management including geographical rights assignment
- Ideal for control technology or complex digitalisation tasks
- Expanded scope of functions for more efficient data processing

Future-proof solution
Intuitive user interfaces, the solutions are especially future-proof with the help of an adaptive UX design and the use of state-of-the-art web technologies.

Efficient project planning
The class-instance concept and automation objects with structure support accelerate project planning. Scripting and customisable control elements increase flexibility for special requirements.

Simple scalability
From simple HMI applications to complex SCADA applications, PROCON-WEB SCADA is scalable and flexible, and can be integrated into your IT environment through open standards and interfaces.

PROCON-WEB SCADA – **Visualisation solutions for your Industrial IoT applications**

Ordering data

Type SCADA runtime licences	Number of process variables, max.	Number of devices	Platform for runtime system	Order No.
PWEB-SCADA-RT-500/2	500	2	Windows	**2857420000**
PWEB-SCADA-RT-500/5	500	5	Windows	**2857430000**
PWEB-SCADA-RT-500/10	500	10	Windows	**2857470000**
PWEB-SCADA-RT-1000/2	1000	2	Windows	**2857480000**
PWEB-SCADA-RT-1000/5	1000	5	Windows	**2857520000**
PWEB-SCADA-RT-1000/10	1000	10	Windows	**2997580000**
PWEB-SCADA-RT-2000/2	2000	2	Windows	**2857540000**
PWEB-SCADA-RT-2000/5	2000	5	Windows	**2857550000**
PWEB-SCADA-RT-2000/10	2000	10	Windows	**2857560000**
PWEB-SCADA-RT-5000/2	5000	2	Windows	**2857570000**
PWEB-SCADA-RT-5000/5	5000	5	Windows	**2857580000**
PWEB-SCADA-RT-5000/10	5000	10	Windows	**2857600000**
PWEB-SCADA-RT-10000/2	10000	2	Windows	**2857610000**
PWEB-SCADA-RT-10000/5	10000	5	Windows	**2857620000**
PWEB-SCADA-RT-10000/10	10000	10	Windows	**2857630000**
PWEB-SCADA-RT-30000/2	30000	2	Windows	**2862170000**
PWEB-SCADA-RT-30000/5	30000	5	Windows	**2862180000**
PWEB-SCADA-RT-30000/10	30000	10	Windows	**2862190000**
PWEB-SCADA-RT-60000/2	60000	2	Windows	**2862200000**
PWEB-SCADA-RT-60000/5	60000	5	Windows	**2862210000**
PWEB-SCADA-RT-60000/10	60000	10	Windows	**2862220000**
PWEB-DESIGNER-PRO			Windows	**2857650000**
PWEB-ES-DESIGNER-2000_FREE			Windows	**3037270000**
Basic Training				**2938790000**
Customer Specific Training				**2938800000**
SLA Technical Support				**2938730000**

AutoML – Data analysis and automated machine learning

AutoML

The most important facts at a glance

Build and deploy end-to-end machine learning model solutions faster. You only need your domain knowledge.

With AutoML, you can easily use advanced analytic functions to optimise operations, improve product quality and enable new business models. As a machine or process expert, you can build and run machine learning models quickly and easily without expert knowledge in data science. As machine builder, the AutoML tool enables you to transform your data and domain knowledge into ML models that add value to your business. In manufacturing environments, the models can be used in order to provide machine operators with real-time analysis and insight during operation, for example. The tool consists of AutoML ModelBuilder, with which models are created, AutoML ModelRuntime for cloud applications, and edgeML ModelRuntime for on-premise applications.

The benefits for you

Accelerated innovation
Leverage your existing machine data and domain knowledge and benefit directly from advanced analytics. Maintain sovereignty over your own data.

End-to-end solution
Build and continuously improve ML models with AutoML ModelBuilder.

Build customer relationships and new business models
Increase customer satisfaction with improved products and services. Get a better understanding of your customers' needs.

Ordering data

Type AutoML	Number of process variables, max.	Number of devices	Platform for runtime system	Order No.
AML-MB-EC-TRIAL-3M				2864180000
AML-MB-EC-1Y				2864190000
AML-MR-EC-TRIAL-3M				2976350000
AML-MR-EC-1Y-S				2976360000
AML-MR-EC-1Y-M				2976370000
AML-MR-EC-1Y-L				2976380000
AML-MB-AZ-3-Trial				2885120000
AML-MB-MA-AZ-03				2819870000
AML-MR-AZ-Trial				2885130000
AML-MR-MA-AZ-L				2886760000
AML-MR-MA-AZ-M				2886750000
AML-MR-MA-AZ-S				2886740000
AML-OPERATIONS BASIC				2896870000
AML-OPERATIONS PLUS				2896860000

AutoML ModelBuilder
From data to model in just a few steps

Feature of the ModelBuilder
The AutoML ModelBuilder is available as a cloud-based solution. On the basis of prepared data, the user is guided through the following essential building blocks of the tool:

- Import machine and process data and analyse examined
- Data using automatically generated quality criteria (such as missing words)
- Enrich data by creating custom features
- Set data into a context, for instance by determining anomalies and normal behaviour
- Selection of the machine learning model to be created possible (for instance a model to detect or classify anomalies)
- The tool then automates the model creation process, including feature engineering, required preprocessing and post processing operations
- Selection of the created models possible (for instance based on criteria like model performance or plausibility)

AutoML ModelRuntime
For flexible use in the cloud

Features of AutoML ModelRuntime for the cloud
AutoML ModelRuntime makes it easy for an organization's machine or process experts to bring ML models directly into the application – with complete flexibility in the cloud.

- Easily connect machine data with ModelRuntime via databases or other standardised interfaces
- Import created models and assign them to specific machines (multiple models can be used for the same machine)
- Visualise results directly in the production process with the help of the embedded graphic user interface and trigger alarms, for instance
- Use and configure AutoML ModelRuntime with the help of the provided interfaces

edgeML – Simple and flexible ML integration into automation

High flexibility: use hardware and OS agnostic ML models

edgeML makes it possible to integrate ML models into automation in a particularly easy and flexible way – regardless of the hardware. And this is completely independent of the hardware. This allows systems or processes to be monitored continuously and efficiently with machine learning.
With edgeML, machine or process experts can quickly and easily put ML models into practical use. The models can be conveniently managed and executed using the integrated web server. The model results provide detailed insight into the condition of the machine. This information can be used, for example, to optimise maintenance intervals and improve product quality. edgeML thus makes an important contribution to increasing production efficiency.

Simple integration on controllers

edgeML is available as an app for u-OS and can be conveniently installed via the App-Manager. In addition, edgeML is available for Docker and can also be installed as a Linux image on third-party hardware.

Intuitive operation of ML models

edgeML supports MLOps and can therefore be easily integrated into company processes. In addition, the runtime allows the models to be operated intuitively (e.g. through import and administration functions).

Supports ML models according to ONNX format

In addition to models created by the Weidmüller ModelBuilder, edgeML also allows the execution of ML models in the open ONNX standard.

Open platform (supports the ONNX format)

Intuitive import, parameterisation and commissioning of ML models on Edge devices

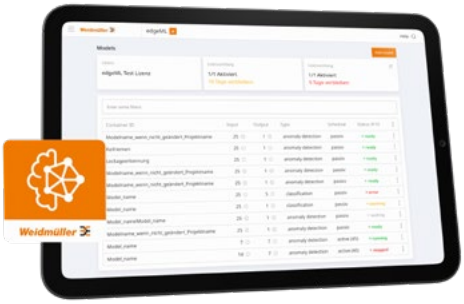
Hardware-independent deployment (docker containers)

edgeML ModelRuntime

Machine and process managers who work on-premise use edgeML ModelRuntime

Features of edgeML ModelRuntime

- Quickly begin operation of ML models on edge devices – importing is simple and parameterisation is intuitive
- Deploy your application on any hardware via docker containers or on u-OS
- Trust in an open platform – we support the ONNX format and MLOps



Ordering data

Type edgeML	Platform for runtime system	Order No.
EML-RT-S	Windows, Linux, Docker Container	2885080000
EML-RT-M	Windows, Linux, Docker Container	2885090000
EML-RT-L	Windows, Linux, Docker Container	2885110000
EML-RT-XL	Windows, Linux, Docker Container	on request
U-OS-EML-RT-S	Windows, Linux, Docker Container	3036820000
U-OS-EML-RT-M	Windows, Linux, Docker Container	3036830000
U-OS-EML-RT-L	Windows, Linux, Docker Container	3036840000
U-OS-EML-RT-XL	Windows, Linux, Docker Container	on request
EML-RT-Trial	Windows, Linux, Docker Container	3037000000

ResMa® – Energy management software

ResMa® Software for process and energy optimization

Optimize your processes with the intelligent energy management that can be combined to Industrial IoT

The use of energy and resources is a cost factor that grows with increasing automation and is having an increasing impact on industrial production. By linking resource and energy management with Industrial IoT, we create the transparency needed to make your processes more sustainable and economical.

The resource and energy management software ResMa® combines the analysis of energy and process data with Industrial IoT platform solutions and offers an integrated system to merge and analyse comprehensive data centrally and to use the knowledge for the optimisation of processes or for new services.

The modular and preconfigured system variants for the standard ResMa® use cases enable the flexible and fast implmentation of your projects, whether in production, industry or distributed infrastructures. In addition, open interfaces allow simple and cost-effective integration into the existing IT environment. We enable you to make optimal use of your data, uncovering potential and increasing your productivity.

Your benefits at a glance

Recording of production data
The simple collection of data from different machines and systems enables the collection of production data. Thus, complex key figures can be calculated and plausibility can be configured to optimize production processes.

Reduction of costs
With our solutions, energy and process data become meaningful key figures. In this way, you not only reduce costs, but also optimize your processes, increase availability and reduce the use of resources.

Automatic reporting
For standardized reporting, individual energy reports or production-relevant evaluations can be sent automatically. In addition, the interactive documentation within the system supports the exchange of information between users.

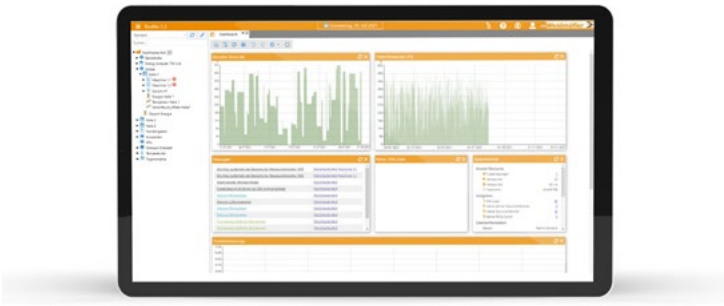
.

Real-time alerting
States, limit or set values are continuously monitored and show abnormalities in order to avoid downtimes and increase OEE. This information can be conveniently forwarded to users.

Simple system integration
Flexible integration of different measurement systems, industrial controllers or other data sources through communication drivers (like Modbus or OPC-UA) and open interfaces. Data exchange with ERP/MES systems or other databases is also easy to implement.

Certified acc. to ISO 50001
DIN EN ISO 50001 compliant energy management certified by the TÜV-Süd (German Technical Inspectorate) and listed at the BAFA. ResMa® allows for simple documentation of energy saving measures with subsequent monitoring and final analysis.

ResMa® offers comprehensive analysis options to identify energy and process-based potentials, document them and derive measures for optimization. Power and production data are collected and prepared in ResMa®. Display options like Sankey diagrams, comprehensive reports or options to compare time periods provide maximum transparency.



Transparency of production
Simple acquisition of all measured variables

- Electricity, gas, water, heat, air consumption
- Order-related quantities and material input
- Machine and equipment performance

ResMa® delivers comprehensive values for statistical analysis of all recorded measured variables, such as: Min, Max, Mean, Sum etc.

Simple and efficient process analysis
Detailed analysis via interactive,
adaptable charts for optimal display

- Generation of meaningful key figures including production parameters
- Specific analyses for energy usage and other production parameters

Less effort, more control
Automated evaluation

- Representation of energy flows via Sankey diagrams
- Use of mobile devices for fast notifications and status queries
- Central monitoring of all production halls or branches for cross-site benchmarking

ResMa® Basic
Evaluate data – plan optimizations

Basic package for the preparation, presentation and analysis of data from the production environment

- Identification of weak points and causes with fluctuating process quality
- Documentation of the entire consumption
- Efficient reporting through automated reports
- Simple operability with high functionality at the same time
- Adjustable dashboards for maximum transparency

Optionally extend your ResMa® Basic
Add-on Packages

Optionally expand your ResMa® Basic. The modular structure allows you to use special and extensive evaluations and analyses. Find the ideal addition to optimise your use case with the ResMa® energy management software and easily gain added value from your data.

ResMa® Energy Package
DIN EN ISO 50001 certified energy management system

- Continuous monitoring and optimisation of energy usage
- PDCA cycles and documentation functions
- Calculate meaningful energy KPIs and key data
- Automated reporting with custom reporting templates
- Transparent cost calculation with tariff integration

ResMa® Production Package
For a detailed analysis of machines and systems

- Increase process stability to reduce scrap and increase quality
- Reduce use of resources (material and power) to save costs
- Statistics on the causes of downtime as the basis for a cost analysis
- Increase availability and productivity to maximize profits
- Optimize productivity through cross-location benchmarking on the product level and on an order-specific basis

ResMa® Regression Analysis Package

Regression analyses for optimisation
and investment decisions

- Find dependencies in data via correlation analyses and thereby boost process understanding and transparency
- Determine the type and strength of dependencies as the basis for optimization and investment decisions
- Create regression models based on dependency findings
- Complete regression analyses based on created models for any time period
- Visualise the effects of optimisation measures on energy and processes

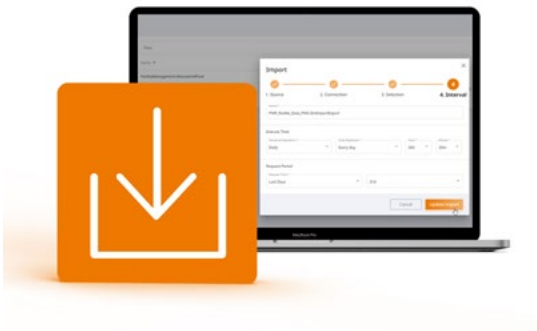
ResMa® Recipe Management Package

Documentation, representation and analysis
of recipes to improve quality

- Standardisation through the use and exchange of recipes
- Document concrete production processes
- Analyse warning and limit value violations
- Visualise unstable processes early on (connection to LiveValueCache)
- Integrate findings into newly developed recipe versions
- Increase production quality for the long-term

ResMa® Import Package

Facilitates imports from third-party systems
to evaluate all data in a single system



- Browse through external data sources (MS SQL, CSV)
- Map time series data on measurement points
- Configure import jobs
- Automatic cyclical execution
- Automate adoption of time series data from third-party systems

ResMa® IPC-PLC Connector

IPC as data collector and gateway

- Comprehensive selection of industrial communication protocols – Simatic S7/TIA, Beckhoff ADS, CODESYS®, Mitsubishi Melsec, Modbus-RTU/TCP, OPC-UA and more
- Convenient configuration interface installed on an IPC, directly for assembly in a control cabinet
- Existing energy meters can be integrated
- Encrypted transmission via the network/internet to the ResMa® server

ResMa® Evaluation Kit

Test package with comprehensive functions

To get to know the versatile functions of ResMa®, our ResMa® Evaluation Kit provides a cost-effective introduction to recording and evaluating measured values. We would like to make it possible for everyone to use our ResMa® energy management software in the form of a test package in order to make energy management in companies of any size as efficient as possible.

Further information is available on our website:
http://wmqr.eu/ResMa-Evaluation-Kit

Your advantages

Short delivery times
Hardware and software test package available at short notice

More efficiency through transparency
Continuous monitoring, analysis and evaluation of your energy data

Individual introduction
You will receive an introduction to your individual project from our experts

ResMa® Basic & Add-on Packages
Order overview

The available functions of ResMa® are divided into different function packages, allowing you to customise configuration to suit your needs. We will be happy to advise you with the selection and demonstrate the corresponding scope of services of the extension packages.

Type RESMA	Number of process variables, max.	Platform for runtime system	Order No.
RESMA-100	100	Windows	3036610000
RESMA-200	200	Windows	3036620000
RESMA-500	500	Windows	3036630000
RESMA-1000	1000	Windows	3036640000
RESMA-3000	3000	Windows	3036650000
RESMA-10000	100000	Windows	3036660000
RESMA-100-ENMS	100	Windows	3036750000
RESMA-200-ENMS	200	Windows	3036760000
RESMA-500-ENMS	500	Windows	3036770000
RESMA-1000-ENMS	1000	Windows	3036780000
RESMA-3000-ENMS	3000	Windows	3036790000
RESMA-10000-ENMS	10000	Windows	3036800000
RESMA-100-PROD	100	Windows	3036670000
RESMA-200-PROD	200	Windows	3036690000
RESMA-500-PROD	500	Windows	3036700000
RESMA-3000-PROD	3000	Windows	3036720000
RESMA-10000-PROD	10000	Windows	3036710000
RESMA-100-IMPORT	100	Windows	3029480000
RESMA-200-IMPORT	200	Windows	3029490000
RESMA-500-IMPORT	500	Windows	3029500000
RESMA-3000-IMPORT	3000	Windows	3029520000
RESMA-1000-IMPORT	1000	Windows	3029510000
RESMA-10000-IMPORT	10000	Windows	3029530000
RESMA-100-REZEPTUR	100	Windows	3029540000
RESMA-200–REZEPTUR	200	Windows	3029550000
RESMA–500-REZEPTUR	500	Windows	3029560000
RESMA-1000–REZEPTUR	1000	Windows	3029570000
RESMA-3000–REZEPTUR	30000	Windows	3029580000
RESMA-200-REGRESSION	200	Windows	3029610000
RESMA-500-REGRESSION	500	Windows	3029620000
RESMA-3000-REGRESSION	3000	Windows	3029640000
RESMA-1000-REGRESSION	1000	Windows	3029630000
RESMA-10000-REGRESSION	10000	Windows	3029650000
Inbetriebnahme [Tag]		Windows	2938830000
RESMA-MODBUS-CONNECTOR		Windows	2854870000
RESMA-PLC-CONNECTOR		Windows	2854120000
RESMA-PRO		Windows	2853390000
Basic Training			2938790000
Customer Specific Training			2938800000
SLA Technical Support			2938730000
Installation Standard			2938810000
Project Coordination			2938820000

PROCON-Connect – Simple data acquisition, pre-processing and communication

- Drivers with browsing function: OPC-UA, ModbusTCP/RTU, CODESYS®, AllenBradley and drivers for u-mation PLC
- Installation via u-OS App-Manager or on industrial PCs via Docker Container
- Configuration of controller connections, databases and cloud connections via browser

Further information on PROCON-Connect is available in section F.

u-link – Remote maintenance

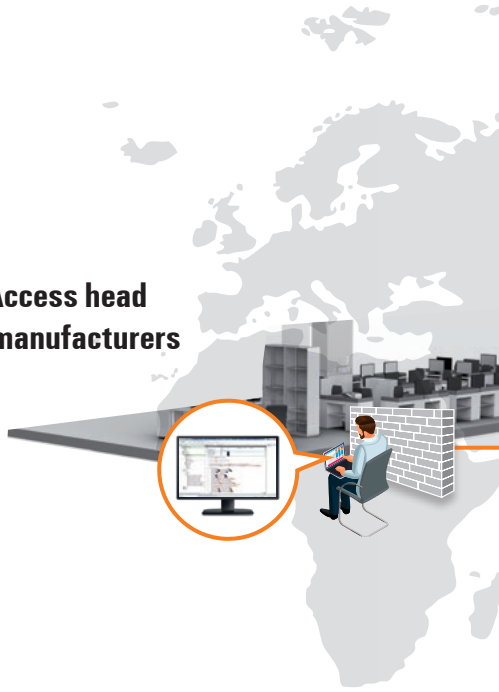
u-link Remote Access Service – one tool for all cases

Advanced functions for convenient remote access management

The remote maintenance of machines and systems is often complex and time-consuming. In addition, users also need a targeted and secure functional connection to the associated IT systems. For many users, these two challenges are a major obstacle to the worldwide connection of systems.

u-link guarantees quick and secure access to machinery and equipment while enabling the efficient management of production facilities, user clients, access rights or firmware versions. You choose: use u-link classic as a web-based portal application, or u-link on easyConect, our cloud-based industrial service platform.

The intuitive u-link web portal can be quickly and easily configured and adapted to specific processes without expert knowledge. Secured servers in Europe and the USA provide an online platform that ensures conformity between different IT systems when performing remote maintenance. easyConnect, in contrast, combines your entire Weidmüller service landscape at a single location. In addition to remote maintenance, realise your use cases easily, consistently and without any relevant prior knowledge, thanks to the perfect interaction of platform, devices and diverse software services. It is your intuitive, future-proof tool for your path to the Industrial IoT.



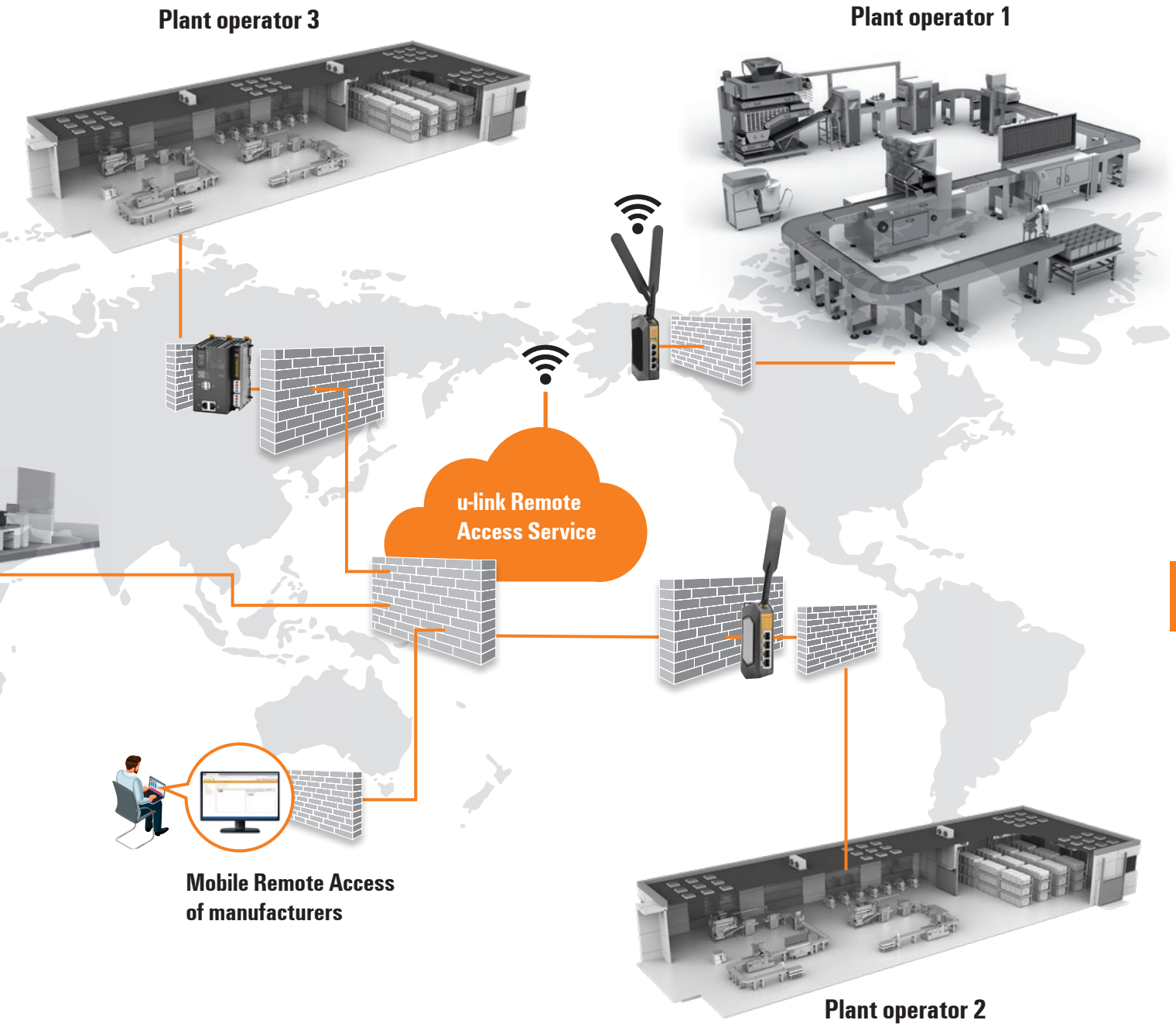
Individual system management
u-link can manage users and groups as well as their access rights according to individual specifications. These include group allocation and access permission to production facilities.

Low configuration effort
With the intuitive user interface and without specific IT knowledge, you can easily connect routers and clients to each other. With u-link, you can quickly establish a several systems network.

Secure remote access and remote diagnosis
Remote access to machines and systems is provided worldwide everywhere via secure VPN connection. The high availability of the servers grants secure access to your systems at all times.

Status monitoring and status message
Weidmüller Heartbeat can be used to report the availability of a router to u-link. It facilitates status monitoring and enables status messages from the installed router.

u-link.weidmueller.com


Plant operator 3
Plant operator 1
u-link Remote
Access Service
Mobile Remote Access
of manufacturers
Plant operator 2

Service and support

Our expertise for your requirements
Service connects – worldwide

Automation technology functions are becoming more complex in a globally-oriented world facing ambitious targets in terms of energy efficiency and smart production. We are your equal partners for the best connections in Industrial Connectivity.

Our personal support answers all questions reliably and expertly. During planning, installation or operation our service and support offer is your best companion.

In short: Weidmüller's global service combines our expertise with your requirements.

Your way to our service
www.weidmueller.com/service

Engineering services and customised products

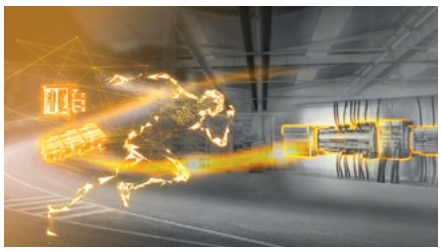
Automation engineering and connectivity consulting belongs to our services as well as assembly of engineered products. We also support the process from the idea to the product with our Weidmüller Configurator and the Configure-to-Order process.

Consulting and engineering
The challenge for you is reducing costs and increasing efficiency. This requires intelligent, individual solutions. Whether it is modified products, pre-fitted mounting rails or complete small cabinets – our application centres provide a highly qualified custom-made engineering and production service.

Connectivity Consulting
Increase your competitiveness - supported by our experts
Our drive is to optimise your competitiveness. That's why our team of experts supports you in significantly increasing your efficiency in electrical machine design and control cabinet construction. With proven products and services from the Weidmüller portfolio – and with the experience gained from over 300 projects worldwide.

Assembled terminal rails - Flexibly designed to suit your requirements
Your processes in panel building have to be fast, flexible and productive. This is the only way you can cut your costs and increase efficiency. Depending on the application in question, you will have different requirements with respect to the engineering service, delivery speed and flexibility to be provided.

Modified and assembled enclosures - Competitive advantages included
To compete internationally, your plants need to satisfy high standards of safety, quality and performance. The smart combination of consultation, application expertise and industry know-how is our key to finding a custom-fit solution for your application. Reduce costs and increase efficiency.



Fast Delivery Service - Your ideas deserve a quick realisation
Obtain offers 24/7 and within minutes, including directly orderable article numbers with our Fast Delivery Service. The Weidmüller Configurator (WMC) for planning and configuration is key for consistent processes. Dispatch your orders in 5 days. Assemble individual terminal strips and enclosures from batch size 1!

Your ticket to the world of digital service
easyConnect – Your Industrial Service Platform

Our cloud-based platform is your ticket to the world of digital services from Weidmüller, and the intuitive and future-proof tool for your way to the Industrial IoT. Realise your use cases easily, consistently and without any relevant prior knowledge, thanks to the perfect interaction of platform, devices and diverse software services.

As an open, modular and perfectly integrable system, the platform is your enabler for a wide range of use cases. Increase your efficiency and unleash your full innovation potential with easyConnect.

Interested in using easyConnect?
Learn how to get started with easyConnect step-by-step.

www.weidmueller.com/easyconnect

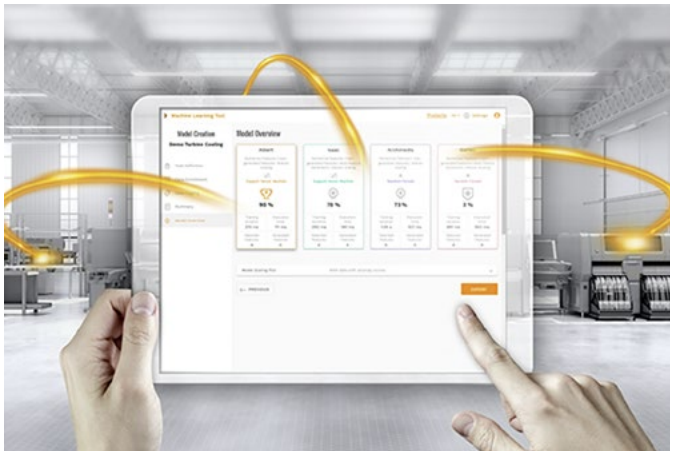
Why should you use easyConnect?

- You want to enter your digital transformation step-by-step?
- You want to make the step into Industrial IOT, but have no or little IT expertise?
- You want to use your digital data for smart & scalable services?
- You want to offer digital services (such as customised dashboard) to your customers?
- You want to improve your service offering and efficiency, e.g. through remote access?
- You feel Weidmüller's digital services are interesting, but you have „your cloud" already?

Weidmüller comes up with the solution: easyConnect, the new digitalisation platform. It bundles Weidmüller's digital services at one place in the cloud and connects them with various Weidmüller devices.

With easyConnect you start digitalising your application step-by-step without ballast in a secure way.

The following services are initially available on easyConnect:



Device management
Adding and managing cloud-connected devices is typically the first step in any Industrial IoT use case.

Asset management
The asset management service is a modelling tool that allows users to model their assets and processes and link them to relevant time series data.

Remote access (u-link)
u-link guarantees a quick and secure access to machines and plants while also allowing for efficient management.

Data visualisation
easyConnect data visualisation services enable users to view, monitor and display live and historical data.

AutoML
With Weidmüller Industrial AutoML, you can optimize operations, increase product quality and develop new business models by benefiting from advanced analytics.

Expand the possibilities of our products

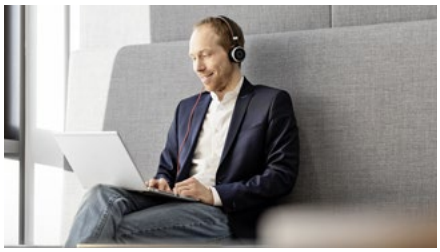
Our Support Center provides you with comprehensive, clear and personal assistance

Receive fast and intuitive support to get the most out of our products in your application. In our new Support Center you can search or navigate to the many application notes, product information, video tutorials or software downloads of our products.

- **Everything at a glance –** One central support hub, where all relevant information is available
- **Powerful search –** Provides filter functions for various types of information and products
- **Different views and navigations –** Content provided in views product information, engineering support or software downloads
- **More than 170,000 downloads –** Application notes, video tutorials, templates and examples, user documentation, engineering data, ...
- **Personal contact –** Direct access to your personal technical contact in your country

Explore the world of our new Support Center
support.weidmueller.com

Additional support services

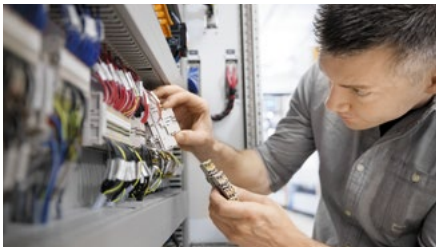


Training and Webinars
Stay tuned in a world that is accelerating. In our entertaining interactive webinars, we offer you the opportunity to learn about new products and technology topics and to interact with our experts.

Repairs and replacement parts
We offer repair and components for our Workplace Solutions as well as assistance for other Weidmüller products. Find out how our experts can help you with your repair request.

Security advisory board
Our Product Security Incident Response Team (PSIRT) continuously informs you about possible security-related vulnerabilities of our products.

Engineering data
For the quick integration of our products into your design, there are a lot of digital product data for engineering systems like EPLAN, Zuken E3.series, WSCAD and many others available for download.

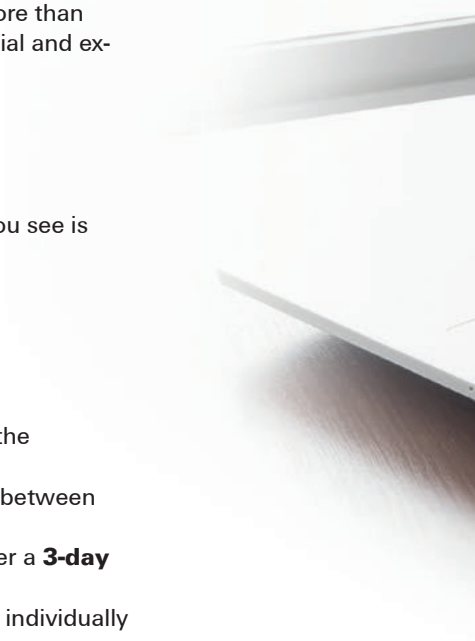


Product change notifications
Technical modifications of our products always available online.

Technical product catalogues
Technical data for our entire program in Industrial Connectivity for download in PDF-format.

From the idea to the finished solution

Weidmüller Configurator: intuitive, uncomplicated & fast digital engineering



Digital engineering can be so easy – with the Weidmüller Configurator!

It´s a **free to use** software application to easily configure industrial solutions. It features more than **12,000 articles** from multiple product families including rail-mounted components, industrial and ex-certified enclosures, Heavy Duty Connectors, remote I/O-systems and PCB connectors.

Unleash the full power of digital engineering:

Our application wizards help you choose the right articles.
Place, mark or modify them to your needs and get your solution **visualized in 3D –** what you see is what you get!

Our promise: Speed up your solution planning process by up to 70%!

Your benefits:

- **Proven configuration designs in real 3D:** The plausibility and collision check with the complete digital documentation ensures that you can rely 100% on your configuration.
- **Seamless E-CAD Roundtrip:** Interfaces enable the simple exchange of product data between the WMC and all common engineering tools, such as Zuken E3 or EPLAN Electric P8.
- **Sample Service & Fast Delivery Service:** to support your design-in process, we offer a **3-day sample service** for many products. Inquire them directly online – for free!
  You want your solution right away? Our **Fast Delivery Service** guarantees delivery of individually assembled terminal strips or enclosures within a few days.

Get started online now!

The Weidmüller Configurator makes solution planning easy. Visit our website for more information, tutorials and download it for free:

www.weidmueller.com/wmc

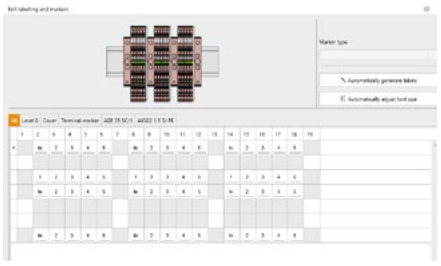
or register on **easyconnect.weidmueller.com**
and use it online.

WMC

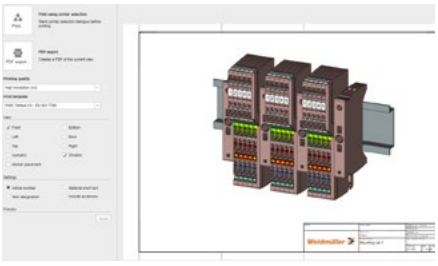
E3. series

ePLAN electric P8

Wizards:
Design complete applications within few clicks – even without detailed product knowledge – for signal wiring, load monitoring, instrument transformers, enclosures, remote I/O-systems and many more.



Assistants:
Finalize your solutions with supporting assistants to add cross-connectors, markers or colors and verify the faultlessness. Automatic modes save valuable time!



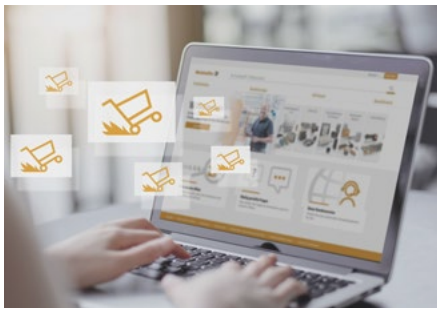
1-click documentation:
Get assembly drawings for production – only 1 click. Bill of material – only 1 click. The complete solution documentation including all component data sheets – you´re right, only 1 click!

Digital ordering options
Your digital ordering options at Weidmüller

Find and easily select the products you need, with convenient ordering: as your Partner in Industrial Connectivity, we know what counts in purchasing. That is why we offer you a variety of options for ordering products from us and optimising your purchasing processes to meet your individual requirements and your workflow. The choice is yours.

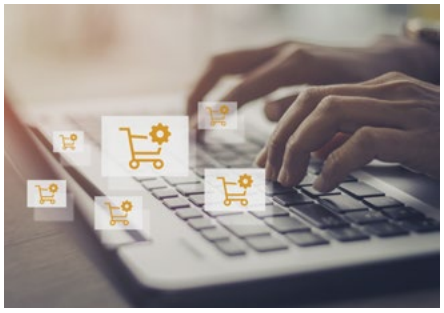
Order via the Weidmüller eShop

Our eShop offers you access to the complete Weidmüller product range around the clock – directly from a PC, tablet, or smartphone. The intuitive user guidance supports you as you select from over 50,000 products. Technical data, prices, and availabilities are available at any time. The shopping basket with check out function lets you place an order in seconds. Convenient additional functions like CSV upload, order history, reports, or custom order templates make your ordering processes even more efficient.



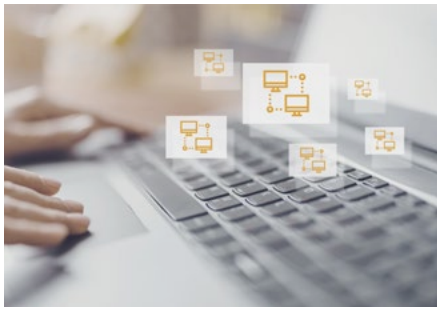
Order via the OCI interface

The Open Catalogue Interface (OCI) facilitates the exchange of data between your enterprise resource planning system and our eShop. This means that our eShop is integrated into your system via an OCI interface, so you have access to our complete product catalogue from your enterprise resource planning system. You can filter and select products, place them in your shopping basket and place direct orders without changing your software application. The open OCI standard is supported worldwide from a variety of software providers.



Order via the EDI interface

Our Electronic Data Interchange (EDI) also offers you the option of ordering our products directly from your enterprise resource planning system. All order data is transmitted automatically to our system and processed immediately. Orders, order confirmations, invoices, and delivery notices are transmitted lightning fast. This helps you make your purchasing processes even more efficient.



We will be glad to advise you on which solutions are suitable for you and how implementation is possible.
Get in touch with us
www.weidmueller.com/digital-order

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S

T

U

Type	Order No.	Page
UR20-16AUX-FE	1334790000	C.145
UR20-16AUX-GND-I	1334800000	C.139
UR20-16AUX-GND-I	1334800000	C.143
UR20-16AUX-GND-I	1334800000	C.145
UR20-16AUX-GND-O	1334810000	C.139
UR20-16AUX-GND-O	1334810000	C.143
UR20-16AUX-GND-O	1334810000	C.145
UR20-16AUX-I	1334770000	C.139
UR20-16AUX-I	1334770000	C.143
UR20-16AUX-I	1334770000	C.145
UR20-16AUX-O	1334780000	C.139
UR20-16AUX-O	1334780000	C.143
UR20-16AUX-O	1334780000	C.145
UR20-16DI-N	1315390000	C.48
UR20-16DI-N	1315390000	C.142
UR20-16DI-N	1315390000	C.144
UR20-16DI-N-PLC-INT	1315400000	C.49
UR20-16DI-N-PLC-INT	1315400000	C.142
UR20-16DI-N-PLC-INT	1315400000	C.144
UR20-16DI-P	1315200000	C.42
UR20-16DI-P	1315200000	C.142
UR20-16DI-P	1315200000	C.144
UR20-16DI-P-PLC-INT	1315210000	C.43
UR20-16DI-P-PLC-INT	1315210000	C.142
UR20-16DI-P-PLC-INT	1315210000	C.144
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2465960000	UR20-EM-2464600000-SP	C.128
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2466000000	UR20-PK-2464570000-SP	C.143
2466010000	UR20-EM-2464590000-SP	C.130
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2466020000	UR20-EM-2464580000-SP	C.127
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2466030000	UR20-EM-2464570000-SP	C.129
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2508780000	UR20-PK-2453870000-SP	C.111
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2508790000	UR20-EM-2453880000-SP	C.143
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2545790000	UR20-EM-2457250000-SP	C.65
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2566100000	UR20-2AO-UI-16-DIAG	C.144
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2682640000	IOT-GW30-4G-NA	B.13
2684400000	SD-CARD	B.4
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2684400000	SD-CARD	B.8
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2684410000	BATTERY-CR1220-3V	B.9
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2702610000	UR20-PK-2659700000-SP	C.17
2702610000	UR20-PK-2659700000-SP	C.142
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2705620000	UR20-2AI-UI-16	C.142
2705620000	UR20-2AI-UI-16	C.144
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2705630000	UR20-2AO-UI-16	C.143
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2735380000	UR20-EM-2697910000-SP	C.142
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2780340000	UR20-PK-1550550000-SP	C.142
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2788700000	UR20-EM-2705620000-SP	C.142
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2826800000	UR20-1COM-232-485-422-V2	C.144
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2826860000	UR20-EM-2826800000-SP	C.143
2826870000	UR20-PK-2826800000-SP	C.121
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2828350000	UR20-4AI-I-HART-ISO-16	C.91
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2839160000	UC20-M4000	B.5
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2854120000	RESMA-PLC-CONNECTOR	I.7
2854870000	RESMA-MODBUS-CONNECTOR	I.7
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2857430000	PWEB-SCADA-RT-500/5	G.8
2857470000	PWEB-SCADA-RT-500/10	G.8
2857480000	PWEB-SCADA-RT-1000/2	G.8
2857520000	PWEB-SCADA-RT-1000/5	G.8
2857540000	PWEB-SCADA-RT-2000/2	G.8
2857550000	PWEB-SCADA-RT-2000/5	G.8
2857560000	PWEB-SCADA-RT-2000/10	G.8
2857570000	PWEB-SCADA-RT-5000/2	G.8
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2857610000	PWEB-SCADA-RT-10000/2	G.8
2857620000	PWEB-SCADA-RT-10000/5	G.8
2857630000	PWEB-SCADA-RT-10000/10	G.8
2857650000	PWEB-DESIGNER-PRO	G.4
2857650000	PWEB-DESIGNER-PRO	G.8
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2862180000	PWEB-SCADA-RT-30000/5	G.8
2862190000	PWEB-SCADA-RT-30000/10	G.8
2862200000	PWEB-SCADA-RT-60000/2	G.8
2862210000	PWEB-SCADA-RT-60000/5	G.8
2862220000	PWEB-SCADA-RT-60000/10	G.8
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2864190000	AML-MB-EC-1Y	H.2
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2875330000	PWEB-ES-RT-5000/5	G.4
2875340000	PWEB-ES-RT-5000/10	G.4
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2885090000	EML-ER-RT-M	H.6
2885110000	EML-ER-RT-L	H.6
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2885130000	AML-MR-AZ-Trial	H.2
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2886750000	AML-MR-MA-AZ-M	H.2
2886760000	AML-MR-MA-AZ-L	H.2
2890000000		
2896860000	AML-Operations plus	H.2
2896870000	AML-Operations Basic	H.2
2910000000		
2919660000	UR20-AUX-VSYS	C.140
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2919660000	UR20-AUX-VSYS	C.145
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2920830000	UR20-3EM-400V-AC-CT1A	C.144
2920840000	UR20-3EM-400V-AC-CT5A	C.103
2920840000	UR20-3EM-400V-AC-CT5A	C.143
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2924030000	U-OS-CODESYS-BASIC-L	E.6
2924040000	U-OS-CODESYS-STANDARD-S	E.6
2924050000	U-OS-CODESYS-STANDARD-M	E.6
2924060000	U-OS-CODESYS-STANDARD-L	E.6
2924070000	U-OS-CODESYS-PERFORMANCE-M	E.6
2924080000	U-OS-CODESYS-PERFORMANCE-L	E.6
2924090000	U-OS-CODESYS-REDUNDANCY	E.6
2924100000	U-OS-CODESYS-VISU-M	E.6
2924110000	U-OS-CODESYS-VISU-L	E.6
2924120000	U-OS-CODESYS-VISU-XL	E.6
2924130000	U-OS-CODESYS-Communication XXL	E.6
2928020000	UC20-WL2000-AC-CAN	B.9
2930000000		
2932860000	UV66-ADV-15-CAP-W-V2	D.7
2932870000	UV66-ADV-7-CAP-W-V2	D.6
2933040000	UV66-ADV-10-CAP-W-V2	D.6
2935060000	UR20-PK-2828350000-SP	C.91
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2935070000	UR20-EM-2828350000-SP	C.91
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2938730000	SLA Technical Support (PWEB/ResMa)	G.4
2938730000	SLA Technical Support (PWEB/ResMa)	G.8
2938730000	SLA Technical Support (PWEB/ResMa)	I.7
2938790000	Basic Training	G.4
2938790000	Basic Training	G.8
2938790000	Basic Training	I.7
2938800000	Customer Specific Training	G.4
2938800000	Customer Specific Training	G.8
2938800000	Customer Specific Training	I.7
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2938820000	Project Coordination	I.7
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2941980000	U-OS-PWEB-ES-RT-1000/2	G.4
2941990000	U-OS-PWEB-ES-RT-1000/5	G.4
2942000000	U-OS-PWEB-ES-RT-2000/2	G.4
2942010000	U-OS-PWEB-ES-RT-2000/5	G.4
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2942030000	U-OS-PWEB-ES-RT-5000/5	G.4
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2942050000	U-OS-PWEB-ES-RT-10000/5	G.4
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2976370000	AML-MR-EC-1Y-M	H.2
2976380000	AML-MR-EC-1Y-L	H.2
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2987520000	UV66-ADV-21-CAP-W-V2	D.7
2987740000	U-OS-PWEB-ES-RT-250/1_FREE	G.4
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2992810000	PWEB-ES-RT-100/2	G.4
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2992930000	PWEB-ES-RT-500/2	G.4
2992940000	PWEB-ES-RT-500/5	G.4
2997580000	PWEB-SCADA-RT-1000/10	G.8
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3012570000	U-OS-CODESYS-VISU-XXL	E.6
3012600000	U-OS-CODESYS-OPC-UA-XL	E.6
3020000000		
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3029490000	RESMA-200-IMPORT	I.7
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3029510000	RESMA-1000-IMPORT	I.7
3029520000	RESMA-3000-IMPORT	I.7
3029530000	RESMA-10000-IMPORT	I.7
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3029550000	RESMA-200-RECIPE	I.7
3029560000	RESMA-500-RECIPE	I.7
3029570000	RESMA-1000-RECIPE	I.7
3029580000	RESMA-3000-RECIPE	I.7
3029610000	RESMA-200-REGRESSION	I.7
3029620000	RESMA-500-REGRESSION	I.7
3029630000	RESMA-1000-REGRESSION	I.7
3029640000	RESMA-3000-REGRESSION	I.7
3029650000	RESMA-10000-REGRESSION	I.7
3030000000		
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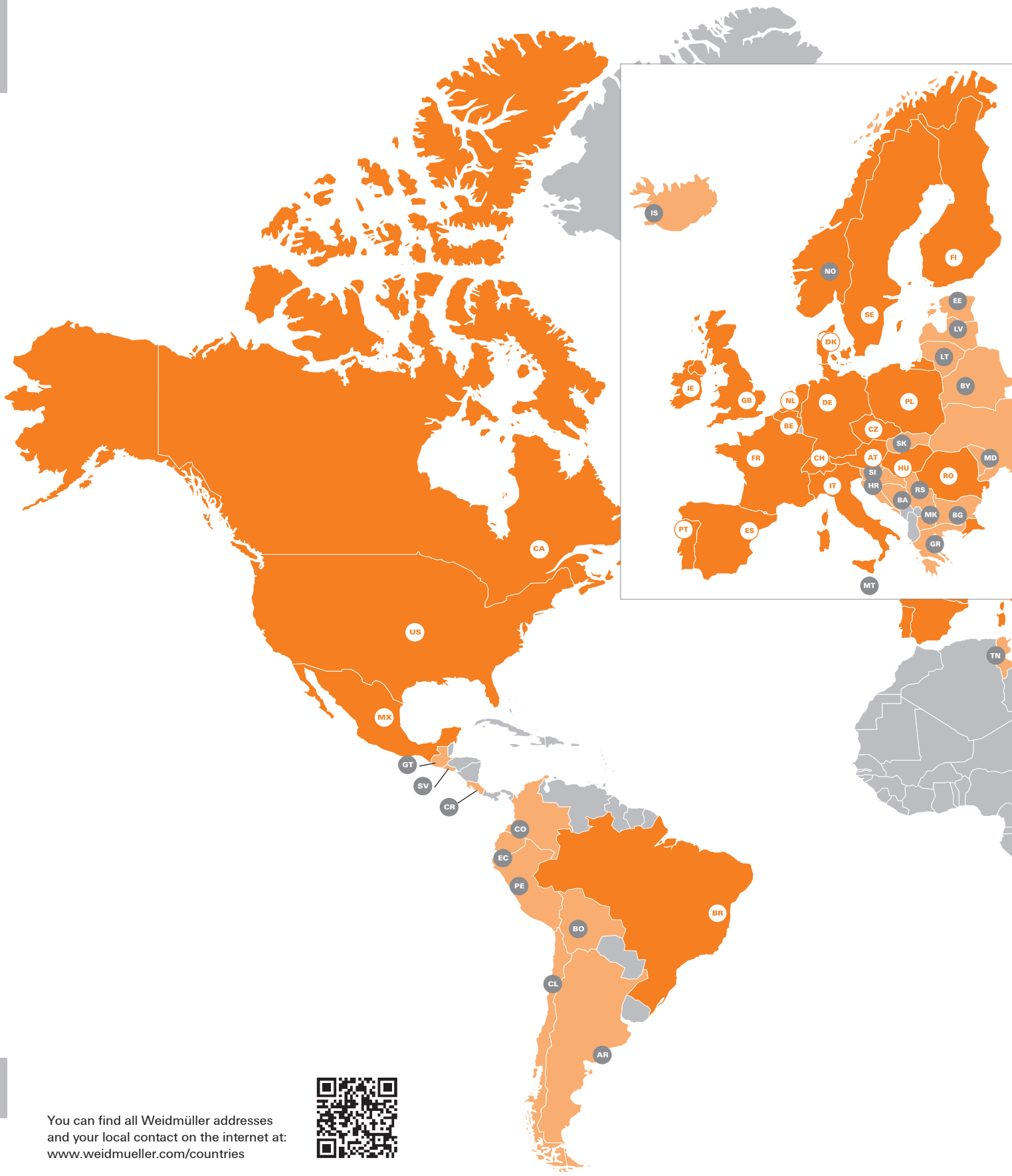
Addresses worldwide



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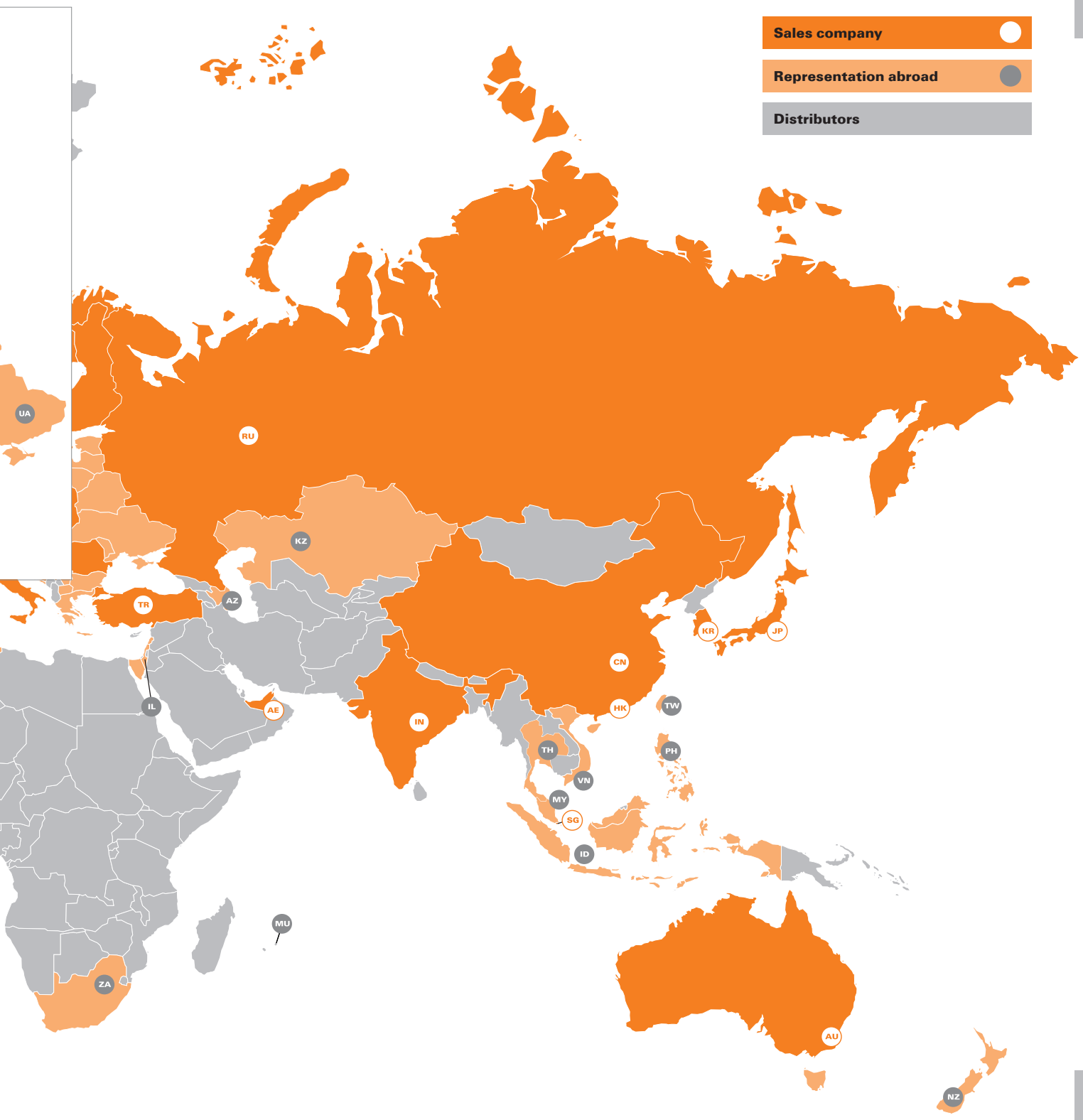
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