

Remote I/O Catalogue 2016/2017

Let's connect.

Electronic interface technology



Weidmüller 

Remote I/O

2016/2017



Smooth machine start-up

thanks to seamless integrated remote I/O systems

Your I/O technology can be smoothly integrated in your usual engineering system with modules which adapt to your individual circumstances and are quick to get up and running.

Whether you opt for the IP67 version directly on the panel or in the cabinet in an IP20 housing, I/O systems from Weidmüller enable wireless integration in existing programming environments. Intelligent functions mean you are ready instantly.

With your practical equipment, our remote I/O systems optimise your machines and processes. Let's connect.

More Performance. Simplified. u-remote.

IP20

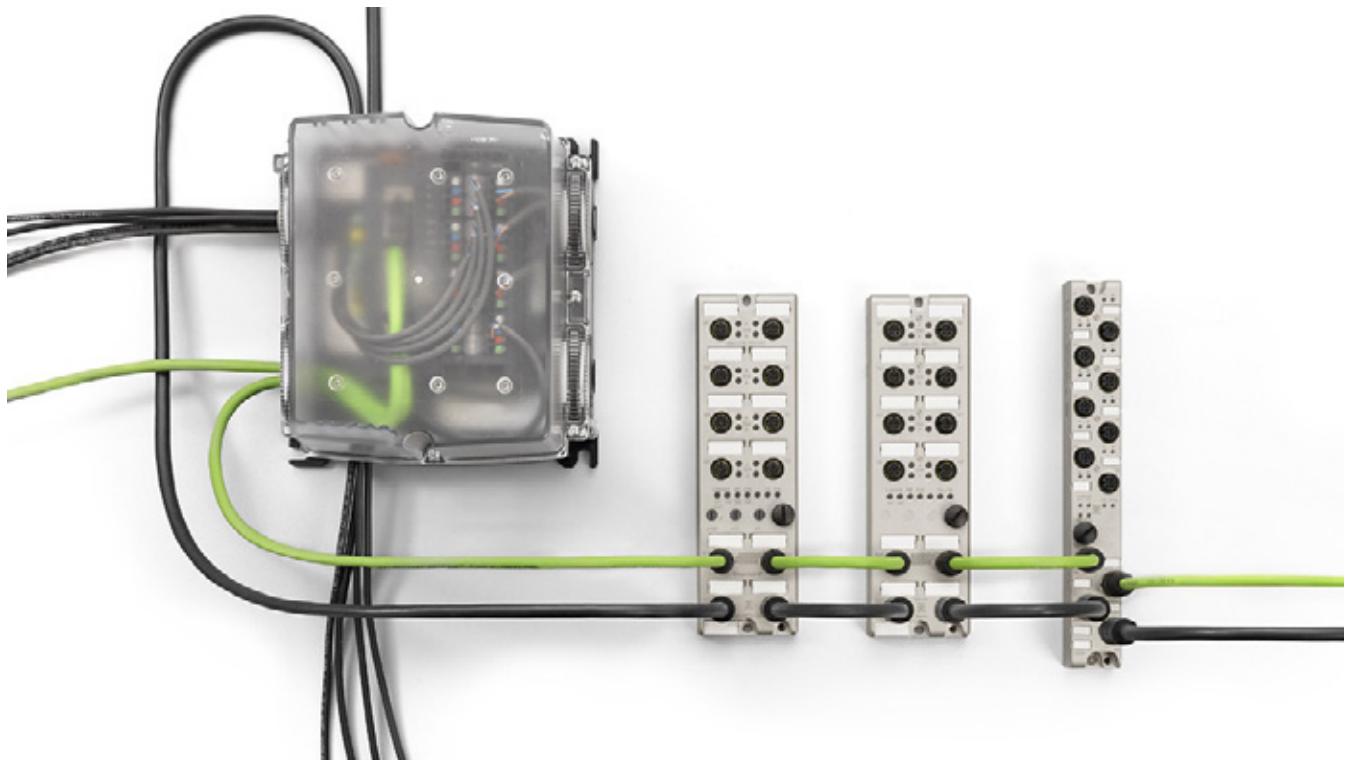


A.1 Modular, small and flexible:
u-remote IP20

IP67



B.1 Robust, powerful and communicative:
u-remote IP67



With u-remote, we have the right solution for each application!

The Weidmüller Remote I/O solution

u-remote is suitable for almost any application, no matter what conditions you meet! The IP20 system for control cabinets offers a wide range of functionalities up to SIL 3 capable modules. By a subbus communication module Weidmüller IP67 subbus modules are directly integrated. Fieldbus networks between IP20 coupler and IP67 stand-alone modules (as shown in the picture above) or completely decentralized IP67 approach. We like to support you to find the best solution for your application!

Fieldbus flexibility

Other customer- other field bus? Then you are perfectly positioned with u-remote! u-remote IP20 offers a wide range with 7 fieldbuses - when the fieldbus changes only the coupler have to be replaced, the system structure remains completely- with up to 64 modules! With the multi-protocol modules in u-remote IP67 you can choose between PROFINET or EtherNet/IP. Simply select the fieldbus by a rotary switch!

Form factor

u-remote IP20 is with 11.5 mm module width and with up to 32 ports per module not only the narrowest system on the market but also the one with the highest channel density! Equivalently, also u-remote in IP67 has comparatively particularly small dimensions. Module width of 30 mm and 60 mm makes you more flexible in selecting the installation areas.

Maximum Energy in the System

u-remote IP20 offers two separate Power paths- one for inputs and one for outputs- each with 10 A, thus saving power-feed modules and space. By the L-coded plugs of the IP67 modules, a power feed with up to 16 A is possible. It enables a greater number of consumers which are wired in a line, thus reducing the amount of wiring and the range considerably.

IP20

IP20

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You automate high-performance machines and production lines

u-remote generates maximum efficiency in your projects

You want to perform your machine development operations – from the automation concept to the stable machine operation – in such a way that they are fast, high-performance, smooth and deliver identifiable added value for your customers. The decisive factors for your project's success are consistently efficient processes and unique functions.

With u-remote you're laying the foundation for this. By implementing powerful and easy-to-use signal connection components, you will reap early on the advantages for installation work, machine commissioning and subsequent service applications at your customers' premises.

From planning to operation, u-remote allows you to speed up all processes and opens up new possibilities for intelligent system architecture. The result available to you is an innovative I/O system which is the perfect response to growing complexity in machine and factory automation thanks to its powerful flexibility and simple handling.

Our formula:
"More Performance. Simplified. u-remote."



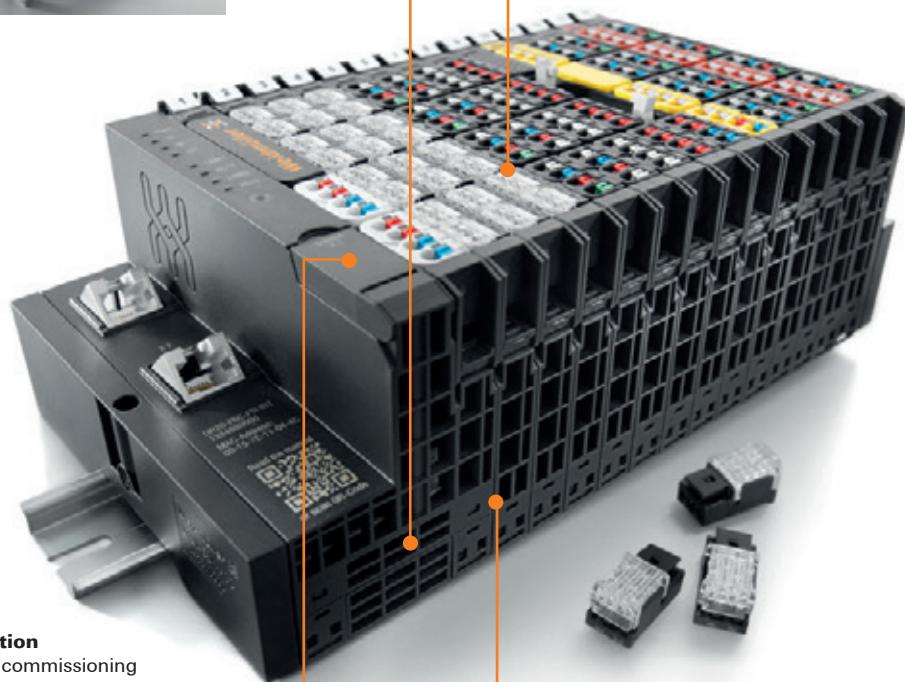
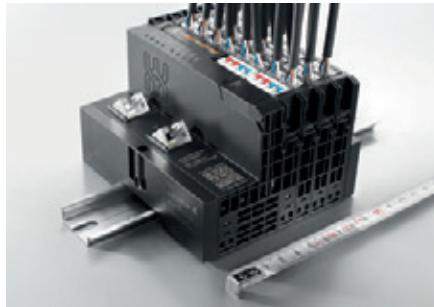
Innovative functions for more efficient automation solutions

With u-remote, Weidmüller has completely rethought the I/O technology for IP20 environments. You can thus expect a system that is full of clever details and allows you to install innovative, cost-saving and easy-to-handle automation solutions in your project.



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.

**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.

**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. Decentralised automation modules in particular are so very easy to transfer into productive operation.

**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. And your system can be quickly maintained while retaining full diagnostic capability, as inputs and outputs can be switched off independently of one another.



Achieving higher productivity is so easy

u-remote combines powerful technologies with efficient processes

Improve system availability

The system simply runs on and on. The permanent base allows electronics to be replaced without interrupting communication, or the supply of voltage to your remote I/O system. A reliable solution for minimising machine downtime.



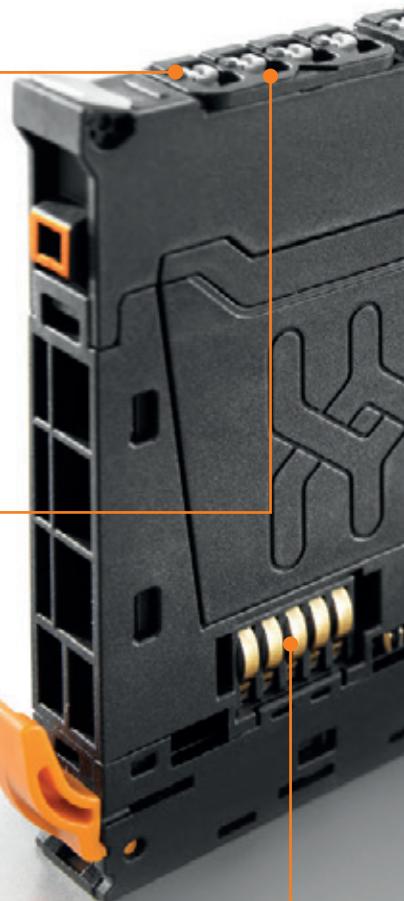
Zero errors with greater performance

The clearly structured single-row connection strip assists with assignment to the circuit diagrams. Especially when working to tight deadlines, this prevents wiring mistakes and problems during service work. Unique: The innovative HD modules with 32 ports allow for connection of 8 individually pluggable 4-wire sensors.



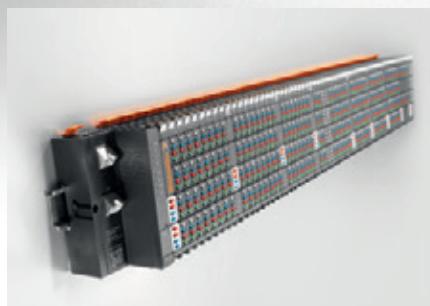
Extremely fast with huge power reserves

The u-remote has outstanding electronic performance, with the high-speed system bus achieving up to 256 DI/DOs in 20 µs. u-remote offers an extremely fast response time and precise mapping of processes in the system, with up to 1024 I/O channels per station, as well as huge power reserves for future use.



**A single power supply is enough**

Keep your remote I/O station as small as possible and simplify your planning. u-remote has a 4 A supply path, which allows 64 I/O modules to be operated with just one power supply on the coupler.

**One glance and you can see everything going on**

Clear assignment of status and diagnosis has never been this simple. With one LED on the channel and status displays on each module, you can easily see all you need on u-remote. The technician can see and rectify errors without delay. Indispensable benefits for a safe start-up and rapid system maintenance.

**Direct insertion – direct savings**

u-remote is equipped with "PUSH IN" direct connection technology. The conductor with wire end ferrule is simply inserted in the clamping unit until the stop is reached – job done! This technology delivers time savings of up to 50 percent, compared to conventional wire-connection methods, and without losses on safety.

**Speed things up with modularity**

The modular structure of u-remote ensures rapid start-up and simple service. The compact design enables intuitive handling which reduces wiring mistakes and therefore lessens the start-up times for machines and systems. u-remote speeds up the replacement of electronics without the need to alter wiring during maintenance work, so improving system availability.



More Performance. Simplified. u-remote.



Let's connect.

IP20

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 field bus coupler, up to 64 I/O modules, optional power-feed modules and a wealth of accessories, such as markers and terminating elements.

The field bus 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 field bus coupler.

Every field bus 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 field bus 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 oder 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 without downstream I/O module operations being affected. 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.



PROFIBUS field bus coupler

DP-V1; Web server tool;

Sub-D connection



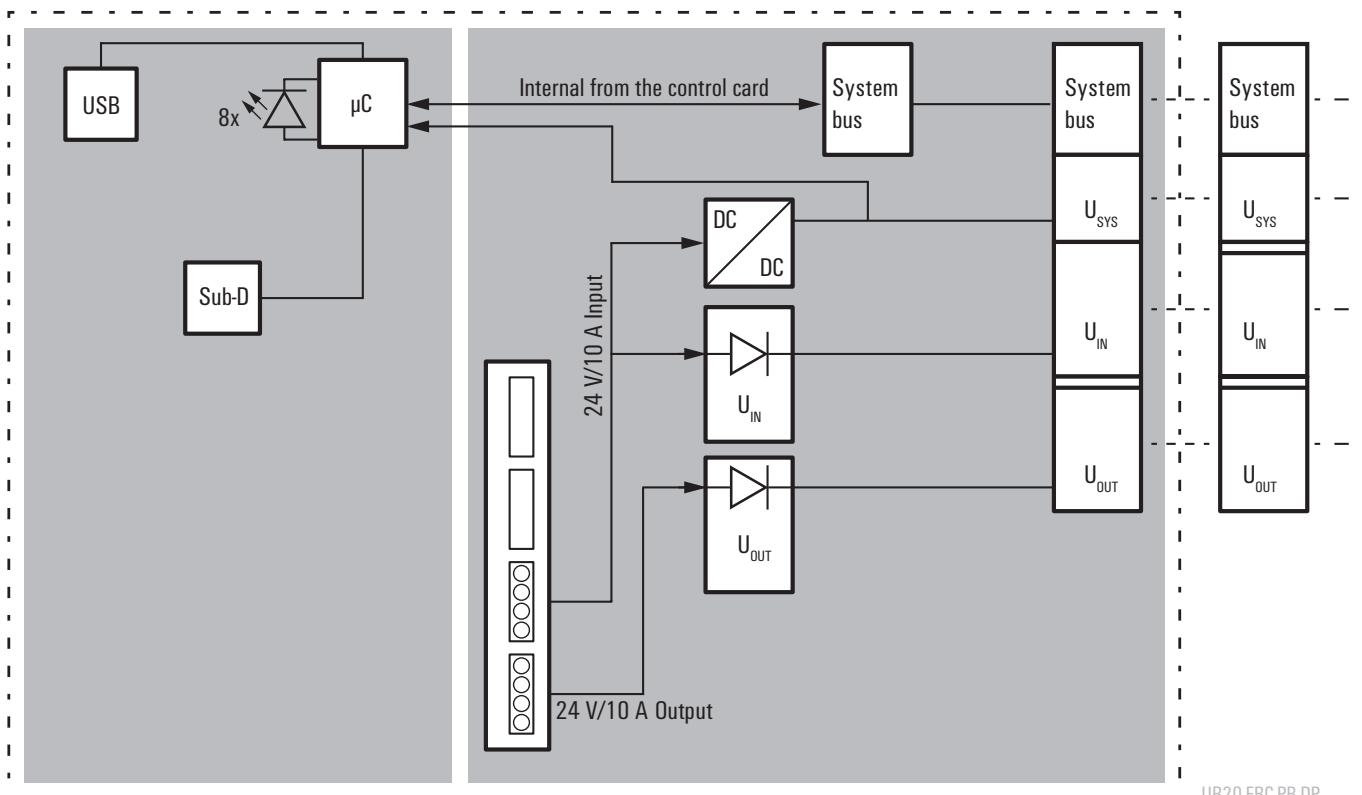
In automation technology, the PROFIBUS-DP standard enables the controlled incorporation of sensors and actuators via one central control unit. The UR20-FBC-PB-DP field bus coupler is a PROFIBUS-DP-V1 participant certified by the Profibus user organisation. With options for connecting up to 64 u-remote 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 field bus 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 fault diagnosis.

More Performance. Simplified.

Block diagram UR20-FBC-PB-DP



PROFIBUS

- 2 x 10 A current paths
- Address can be set using rotary switch
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C
- PROFIBUS DP-V1 up to 12 MBaud

UR20-FBC-PB-DP**Technical data****System data**

Connection	9-pin SUB-D connector
Field bus protocol	PROFIBUS DP-V1
Process data	488 Bytes
Parameter data	244 Bytes
Diagnostic data	244 Bytes
Max. number of I/O modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus	12 Mbps
Transmission speed of u-remote system bus	48 Mbps

Supply

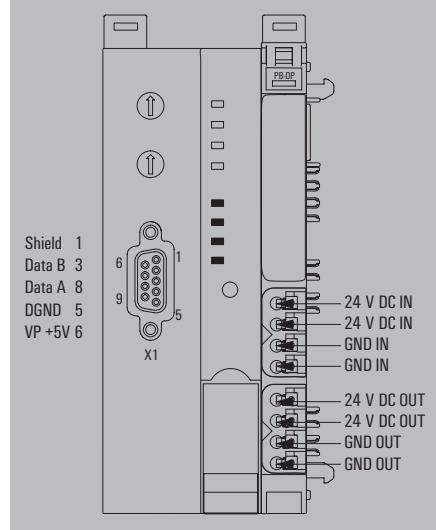
Supply voltage for system and inputs	24 V DC +20 % / -15 %
Supply voltage for outputs	24 V DC +20 % / -15 %
Feed current for input modules, max.	10 A
Feed current for output modules, max.	10 A
Current consumption (I_{IN} in power segment of field bus coupler), typ.	100 mA

General data

Weight	220 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 52 mm x 76 mm

Note

Download of GSD-file on www.weidmueller.com
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**Ordering data****Module variants**

Field bus coupler, PROFIBUS DP-V1

Note

Type	Qty.	Order No.
UR20-FBC-PB-DP	1	1334870000

A termination kit (UR20-EBK-ACC) is included in the coupler package

Accessories

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 SDRVPE	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)	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS *1)	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS *2)	10	1429430000
USB cable (USB A to Micro USB)	IE-C6FP8LE0015M40M40-E	1	1487980000

Replacement parts

Plug-in connector unit

Note

Type	Qty.	Order No.
UR20-PK-1334870000-SP	5	1361520000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1334870000



Let's connect.

PROFINET field bus coupler

Web server tool;
two RJ45 ports; 100 Mbps



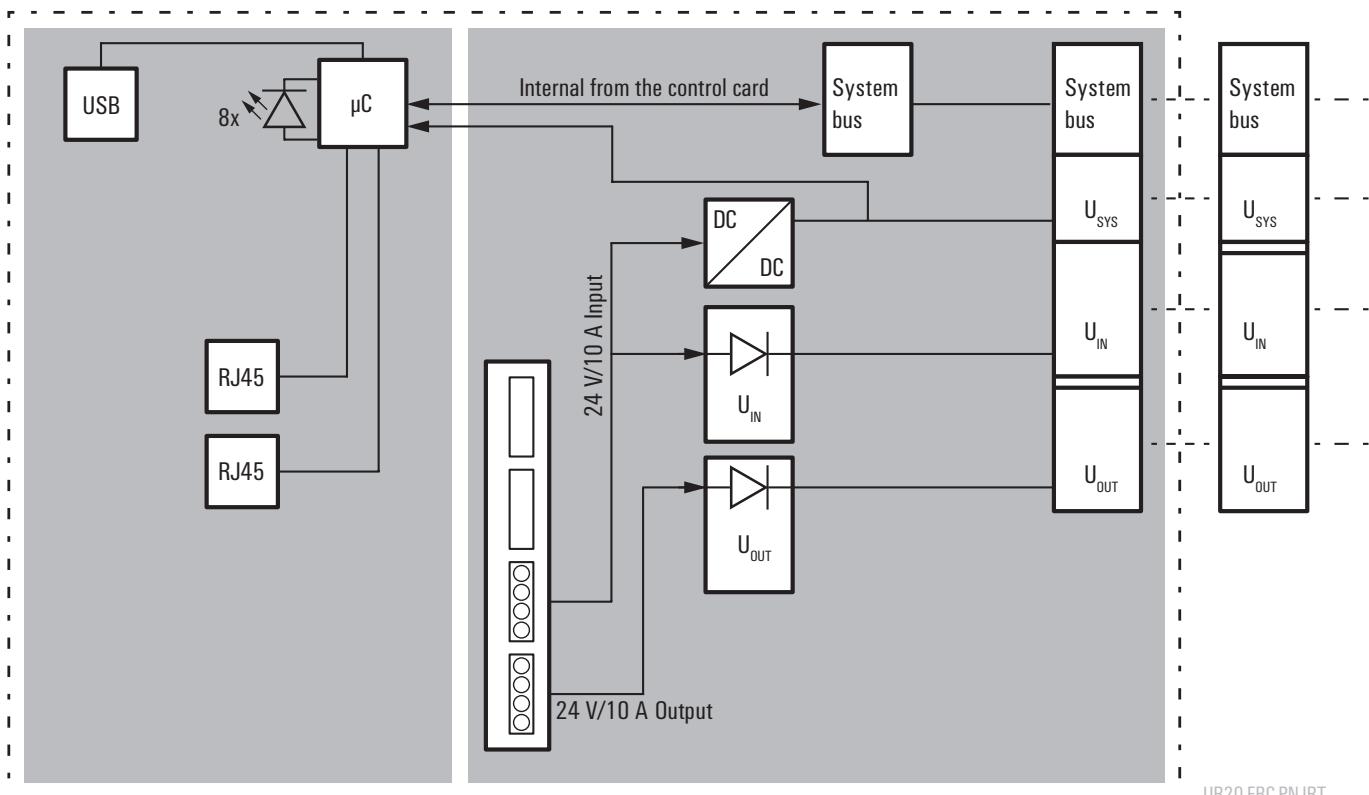
PROFINET is gaining in importance as a rapidly growing Industrial Ethernet Standard. By supporting real-time functionality (RT) and isochronous real-time functionality (IRT), the technology complies with modern system and application requirements to a large extent. The UR20-FBC-PN-IRT field bus coupler 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 field bus 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 faults.

More Performance. Simplified.

Block diagram UR20-FBC-PN-IRT



UR20-FBC-PN-IRT

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**Technical data****System data**

Connection	2 x RJ-45
Field bus protocol	PROFINET IO (RT/IRT)
Process data	1.024 Bytes
Parameter data	1.485 Bytes
Diagnostic data	1.485 Bytes
Fast startup	yes
Max. number of I/O modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus	100 Mbps
Transmission speed of u-remote system bus	48 Mbps

Supply

Supply voltage for system and inputs	24 V DC +20 % / -15 %
Supply voltage for outputs	24 V DC +20 % / -15 %
Feed current for input modules, max.	10 A
Feed current for output modules, max.	10 A
Current consumption (I_{in} in power segment of field bus coupler), typ.	116 mA

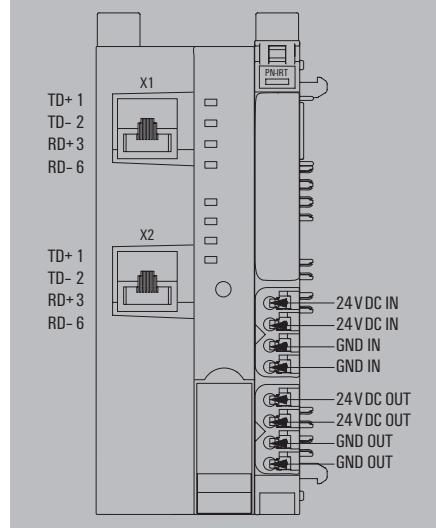
General data

Weight	220 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 52 mm x 76 mm

Note

Type	Qty.	Order No.
UR20-FBC-PN-IRT	1	1334880000

A termination kit (UR20-EBK-ACC) is included in the coupler package

**Ordering data**

Module variants
Field bus coupler, PROFINET IRT

Note**Accessories**

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⁾	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾	1	1429420000
Paper version for Laserprinter	ESD UR20 DIN A4 WS * ²⁾	10	1429430000
USB cable (USB A to Micro USB)	IE-C6FP8LE0015M40M40-E	1	1487980000

Replacement parts

Plug-in connector unit	UR20-PK-1334880000-SP	5	1484120000
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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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESD UR20 DIN A4 WS * ²⁾	10	1429430000
IE-C6FP8LE0015M40M40-E	1	1487980000
UR20-PK-1334880000-SP	5	1484120000

*¹⁾ 1 roll = 1000 label = 1 Qty.

*²⁾ 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1334880000



Let's connect.

EtherCAT field bus coupler

Web server tool; two RJ45 ports; 10/100 Mbps



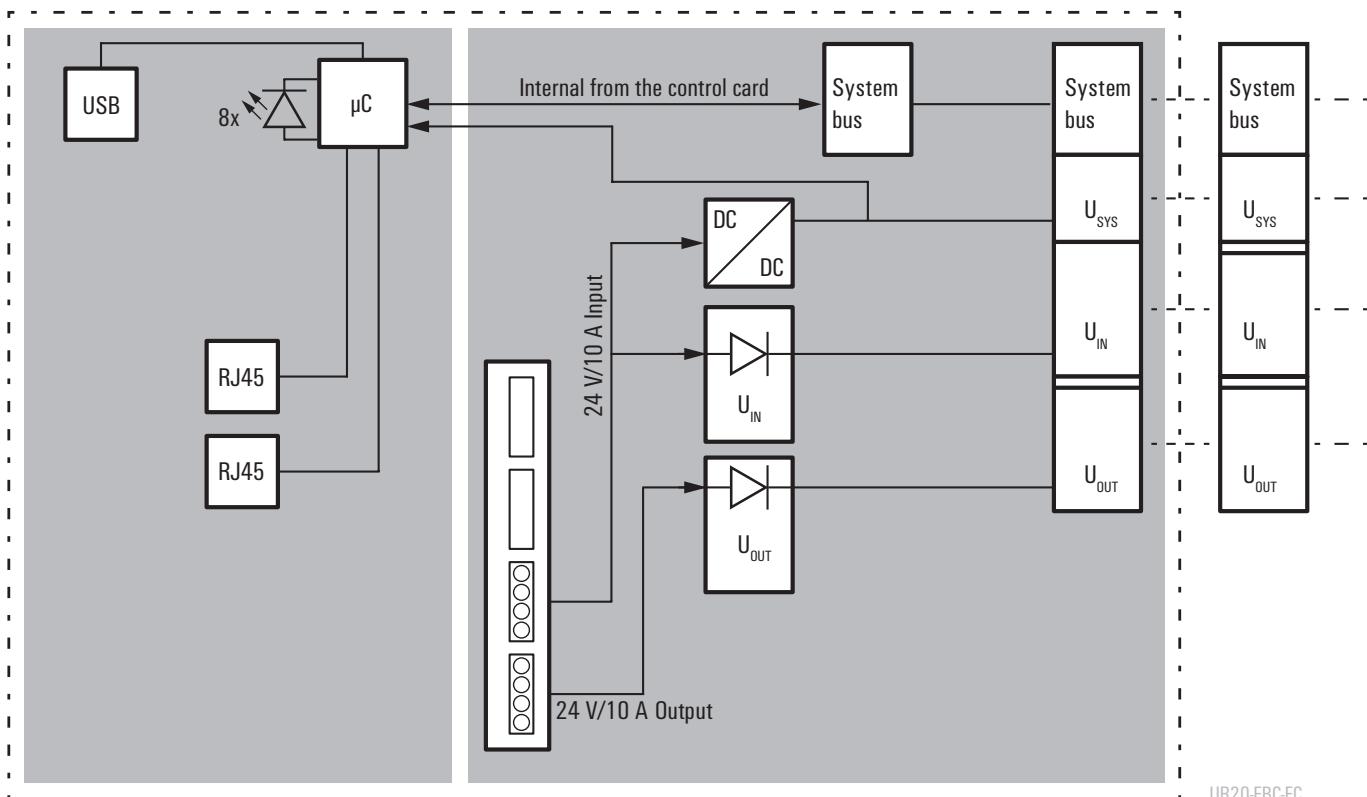
EtherCAT is a popular field bus standard for systems with stringent time requirements. The UR20-FBC-EC field bus coupler is an EtherCAT participant certified by the EtherCAT Technology Group. With options for connecting up to 64 u-remote participants, it serves as the head module for the u-remote system 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 field bus 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.

More Performance. Simplified.

Block diagram UR20-FBC-EC



EtherCAT

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

UR20-FBC-EC**Technical data****System data**

Connection	2 x RJ-45
Field bus protocol	EtherCAT
Process data	1024 Byte
Parameter data	64 x 64 = 4KB
Diagnostic data	64 x 50 Bytes
Max. number of modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus	100 Mbps
Transmission speed of u-remote system bus	48 Mbps

Supply

Supply voltage for system and inputs	24 V DC +20 % / -15 %
Supply voltage for outputs	24 V DC +20 % / -15 %
Feed current for input modules, max.	10 A
Feed current for output modules, max.	10 A
Current consumption (I_{IN} in power segment of field bus coupler), typ.	130 mA

General data

Weight	220 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 52 mm x 76 mm

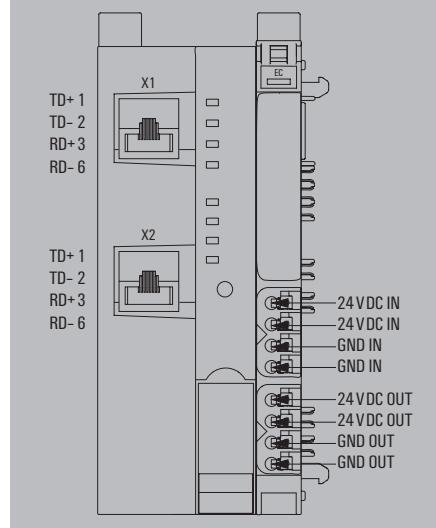
Note

Type	Qty.	Order No.
UR20-FBC-EC	1	1334910000

A termination kit (UR20-EBK-ACC) is included in the coupler package

Ordering data**Module variants**

Field bus coupler, EtherCAT

Note**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	
USB cable (USB A to Micro USB)	

Replacement parts

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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000
IE-C6FP8LE0015M40M40-E	1	1487980000
UR20-PK-1334910000-SP	5	1484440000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1334910000



ModbusTCP field bus coupler

ModbusTCP

Web server tool;
two RJ45 ports; 10/100 Mbps

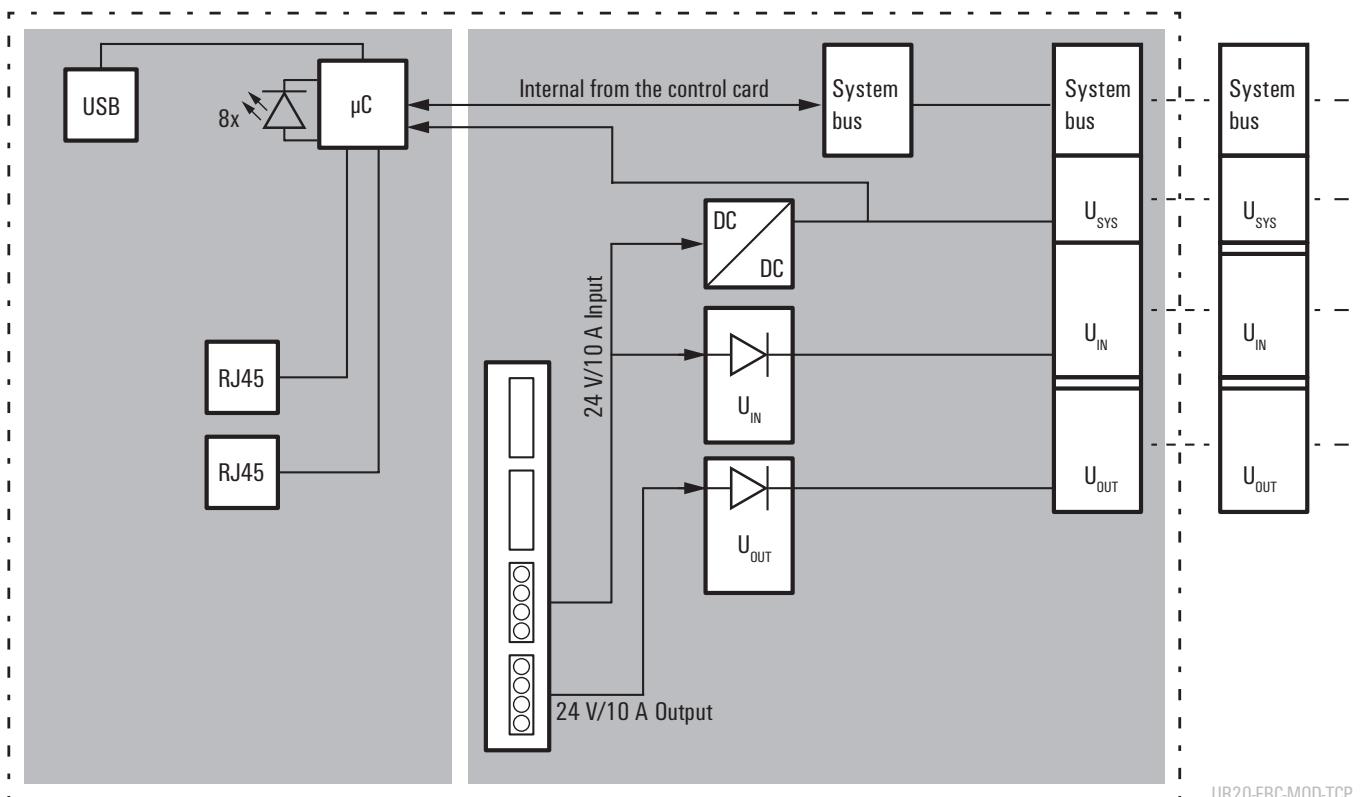
System safety around the globe is provided by the ModbusTCP version, which is stated in IEC 61158 as an Industrial Ethernet Standard. The UR20-FBC-MOD-TCP from Weidmüller is a field bus coupler designed in accordance with IEC 61158. With options for connecting up to 64 u-remote participants, it serves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

More Performance. Simplified.

Block diagram UR20-FBC-MOD-TCP



UR20-FBC-MOD-TCP

ModbusTCP

- 2 x 10 A current paths
- Various Modbus services
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C

UR20-FBC-MOD-TCP**Technical data****System data**

Connection	2 x RJ-45
Field bus protocol	Modbus TCP
Process data	8 kBytes
Parameter data	1.024 Bytes
Diagnostic data	1.024 Bytes
Max. number of modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus	100 Mbps
Transmission speed of u-remote system bus	48 Mbps

Supply

Supply voltage for system and inputs	24 V DC +20 % / -15 %
Supply voltage for outputs	24 V DC +20 % / -15 %
Feed current for input modules, max.	10 A
Feed current for output modules, max.	10 A
Current consumption (I_{IN} in power segment of field bus coupler), typ.	112 mA

General data

Weight	220 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 52 mm x 76 mm

Ordering data**Module variants**

Field bus coupler, Modbus TCP

Note

Type	Qty.	Order No.
UR20-FBC-MOD-TCP	1	1334930000

A termination kit (UR20-EBK-ACC) is included in the coupler package

Accessories

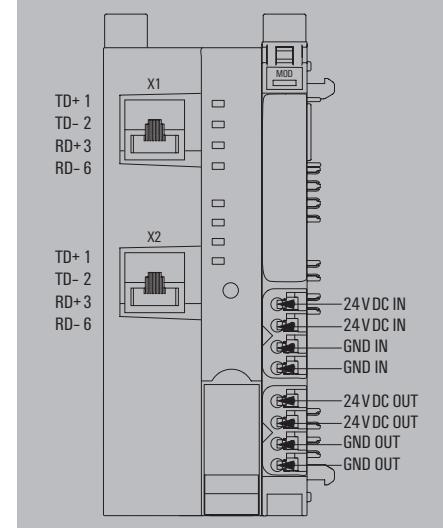
Coding elements	
Termination kit	
Swivel marker	
Connection marker for pusher custom printing	
Connection marker for pusher neutral	
Module marker for custom printing	
Module marker for neutral	
Thermotransfer version (Material: Polyester)	
Thermotransfer version (Material: Polyester)	
Paper version for Laserprinter	
USB cable (USB A to Micro USB)	

Replacement parts

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
IE-C6FP8LE0015M40M40-E	1	1487980000
UR20-PK-1334930000-SP	5	1484130000

*¹⁾ 1 roll = 1000 label = 1 Qty.*²⁾ 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1334930000



Let's connect.

EtherNet/IP field bus coupler

Web server tool;
two RJ45 Ports; 100 Mbps

EtherNet/IP™

EtherNet/IP™ is a widespread, real-time capable Industrial Ethernet fieldbus system.

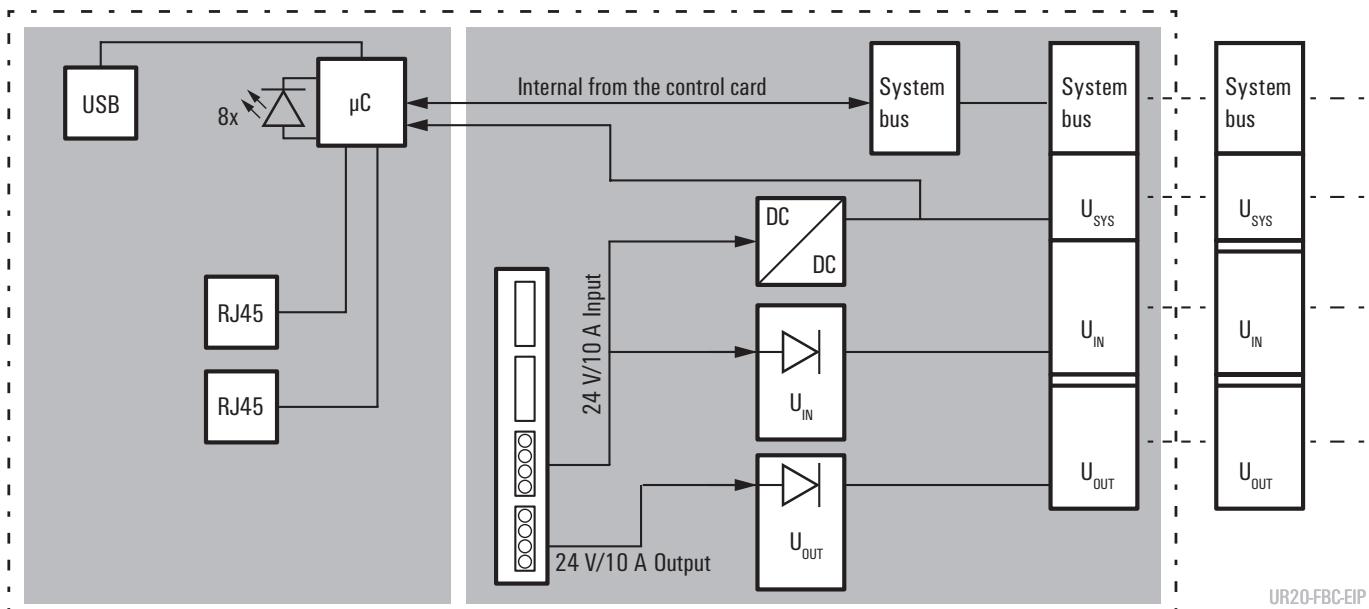
It is based on standard Ethernet technology such as TCP and UDP so it provides in addition to the transmission of unicast messages between two participants, the possibility of sending I/O data via multicast cyclically to multiple recipients. The UR20-FBC-EIP from Weidmüller is a field bus coupler designed in accordance with IEC 61158 and is an EtherNet/IP participant. 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 field bus coupler. Power is supplied via two 4-pin connectors, separated into the input and output current paths.

Since the EtherNet/IP 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.

More Performance. Simplified.

Block diagram UR20-FBC-EIP



EtherNet/IP

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

UR20-FBC-EIP**Technical data****System data**

Connection	2 x RJ-45
Field bus protocol	Ethernet/IP
Process data	max. 2*494 Byte
Parameter data	max. 64*64 Byte
Diagnostic data	max. 64*47 Byte
Max. number of I/O modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus	100 Mbps
Transmission speed of u-remote system bus	48 Mbps

Supply

Supply voltage for system and inputs	24 V DC +20 % / -15 %
Supply voltage for outputs	24 V DC +20 % / -15 %
Feed current for input modules, max.	10 A
Feed current for output modules, max.	10 A
Current consumption (I_{IN} in power segment of field bus coupler), typ.	112 mA

General data

Weight	220 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 52 mm x 76 mm

Note

Download of EDS-file on www.weidmuller.com
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Ordering data**Module variants**

Field bus coupler, EtherNet/IP

Note

Type	Qty.	Order No.
UR20-FBC-EIP	1	1334920000

A termination kit (UR20-EBK-ACC) is included in the coupler package

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	
USB cable (USB A to Micro USB)	

Replacement parts

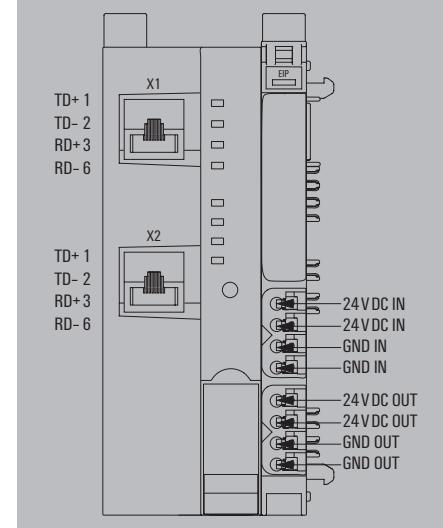
Plug-in connector unit

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
IE-C6FP8LE0015M40M40-E	1	1487980000
UR20-PK-1334920000-SP	5	1541290000

*¹⁾ 1 roll = 1000 label = 1 Qty.

*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1334920000



Let's connect.

DeviceNet field bus coupler

Web server tool; PCB plug-in connector

DeviceNet™

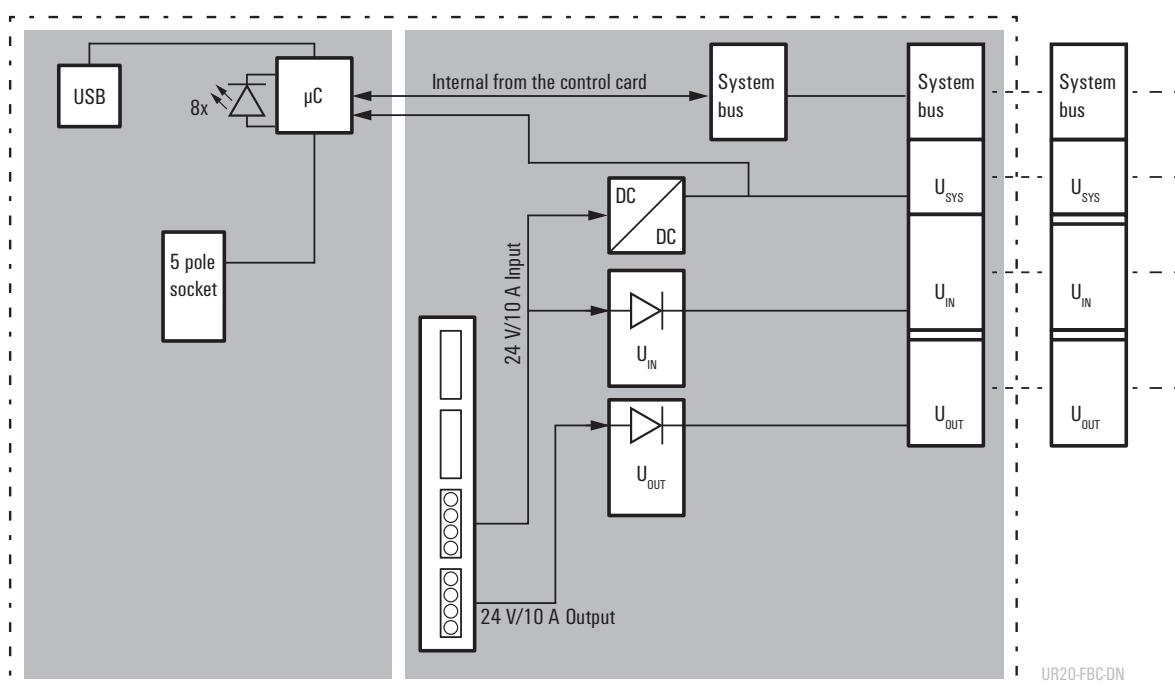
DeviceNet is a serial, CAN-based fieldbus system, which was developed by Allen-Bradley and later on passed as an open standard to the ODVA (Open DeviceNet Vendor Association). Today it is used worldwide in automation technology. Classical can DeviceNet operated with a maximum of 64 network nodes per fieldbus 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 field bus 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.

More Performance. Simplified.

Block diagram UR20-FBC-DN



DeviceNet

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

UR20-FBC-DN**Technical data****System data**

Connection	Socket for 5-pole PCB plug-in connector
Field bus protocol	DeviceNet
Process data	1008 Byte
Parameter data	64*64 Byte = 4 KB
Diagnostic data	64*47 Byte
Max. number of I/O modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus	max. 500 kBit/s
Transmission speed of u-remote system bus	max. 48 Mbps

Supply

Supply voltage for system and inputs	24 V DC +20 % / -15 %
Supply voltage for outputs	24 V DC +20 % / -15 %
Feed current for input modules, max.	10 A
Feed current for output modules, max.	10 A
Current consumption (I_{IN} in power segment of field bus coupler), typ.	75 mA (+ 15 mA from DeviceNet supply)

General data

Weight	225 g
Dimensions (H/W/D)	120 mm (with catch lever) x 52 mm x 76 mm

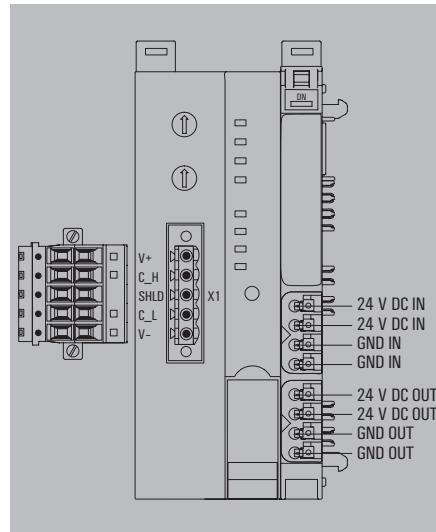
Note

Type	Qty.	Order No.
UR20-FBC-DN	1	1334900000

A termination kit (UR20-EBK-ACC) is included in the coupler package

Ordering data**Module variants**

Field bus coupler, DeviceNet

Note**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	
USB cable (USB A to Micro USB)	
PCB plug-in connector, socket plug, 5 pole, 10 pin	
PCB plug-in connector, socket plug, 5 pole, 5 pin	

Replacement parts

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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000
IE-C6FP8LE0015M40M40-E	1	1487980000
BLDZ DN5.08/05/180F GY BX PRT	50	1919990000
BLZ DN 5.08/05/180F AU GY BX PRT	50	1933550000
UR20-PK-1334900000-SP	5	2003540000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 61010-2-201
MSIP	MSIP-REM-WMG-1334900000



CAN field bus coupler

Web server tool;

Sub-D connection



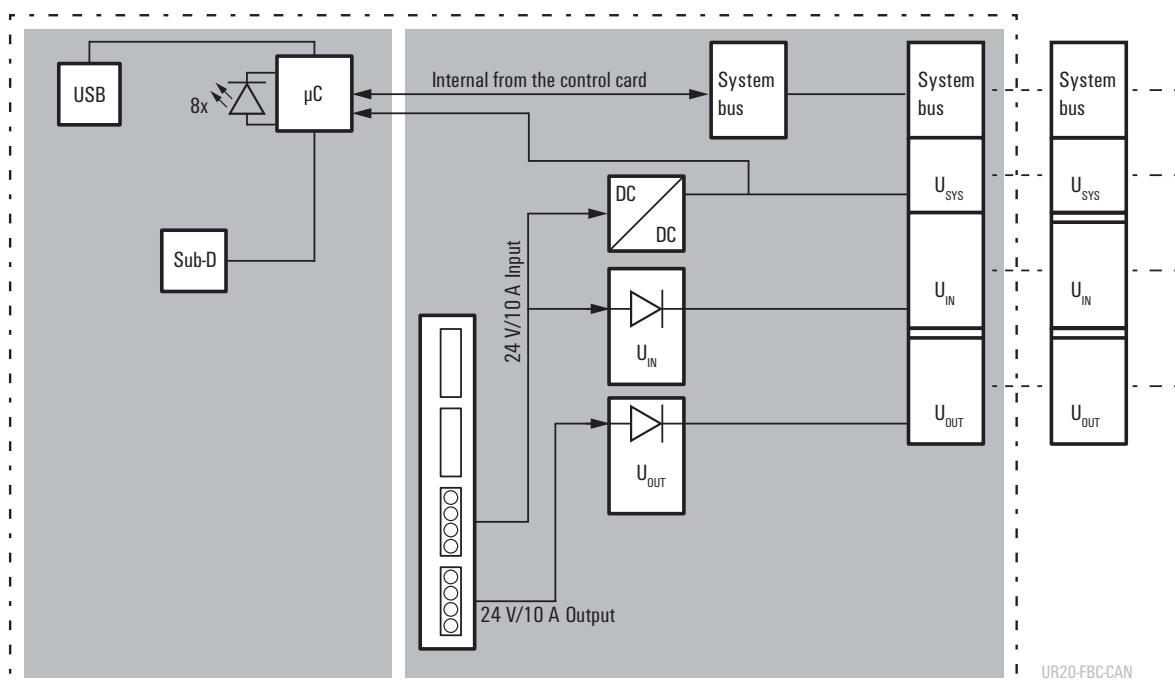
The CAN bus (Controller Area Network) is a serial fieldbus, which was introduced in 1983 by Bosch and Intel. Due to the good characteristics it is particularly suitable for applications where high data security is required. The fieldbus coupler UR20-FBC-CAN uses the CAN based Layer 7 communication protocol 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 field bus 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.

More Performance. Simplified.

Block diagram UR20-FBC-CAN



CANopen

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

UR20-FBC-CAN**Technical data****System data**

Connection	9-pole Sub-D socket
Field bus protocol	CANopen
Process data	488 Byte
Parameter data	244 Byte
Diagnostic data	244 Byte
Max. number of I/O modules	64
Configuration interface	Micro USB 2.0
Transmission rate of field bus	max. 1 Mbps
Transmission speed of u-remote system bus	max. 48 Mbps

Supply

Supply voltage for system and inputs	24 V DC +20 % / -15 %
Supply voltage for outputs	24 V DC +20 % / -15 %
Feed current for input modules, max.	10 A
Feed current for output modules, max.	10 A
Current consumption (I_{IN} in power segment of field bus coupler), typ.	90 mA

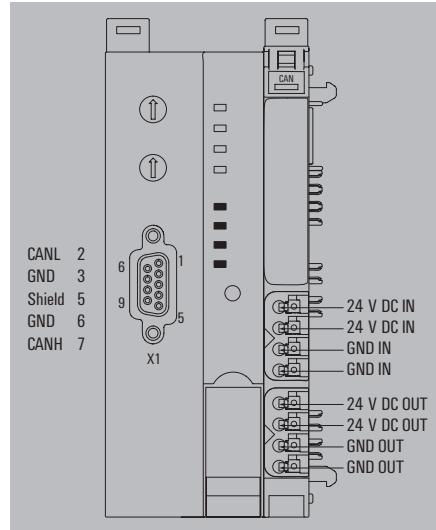
General data

Weight	227 g
Dimensions (H/W/D)	120 mm (with catch lever) x 52 mm x 76 mm

Note

Type	Qty.	Order No.
UR20-FBC-CAN	1	1334890000

A termination kit (UR20-EBK-ACC) is included in the coupler package

**Ordering data****Module variants**

Field bus coupler, CANopen

Note**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	
USB cable (USB A to Micro USB)	

Replacement parts

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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000
IE-C6FP8LE0015M40M40-E	1	1487980000
UR20-PK-1334890000-SP	5	2003530000

*1) 1 roll = 1000 label = 1 Qty.
*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 61010-2-201
MSIP	MSIP-REM-WMG-1334890000



Let's connect.

Digital input modules

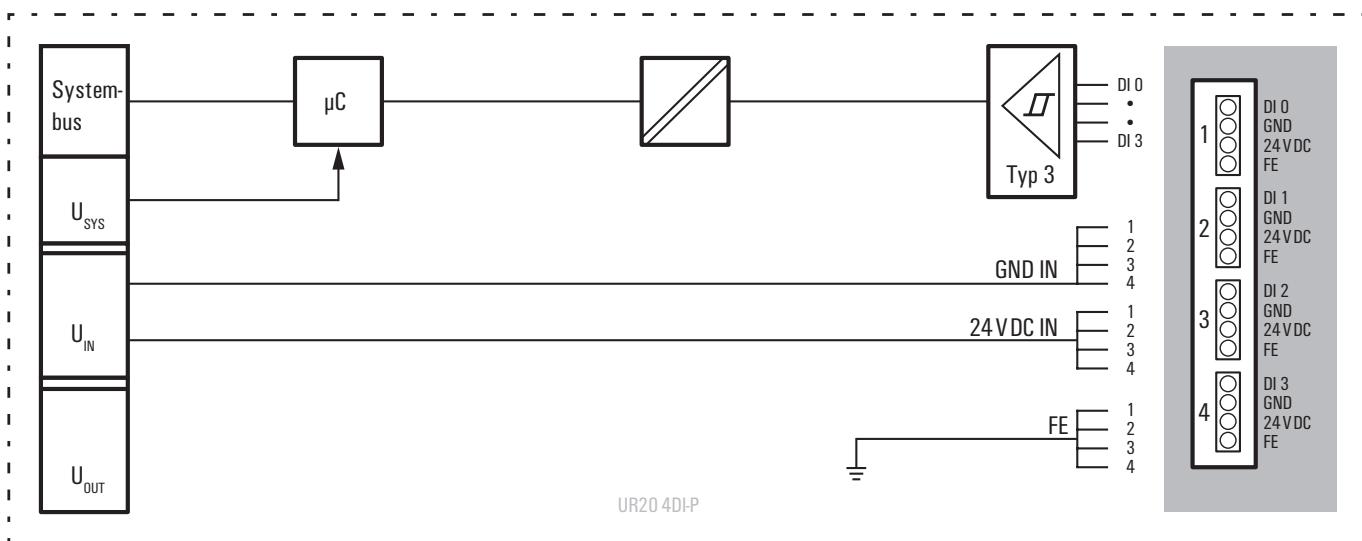
P- or N-switching; Reverse polarity protection, up to 3-wire +FE

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 co-ordinated 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 block diagram example



4DI-P

- 4 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- Reverse polarity protection
- 2-wire, 3-wire, 3-wire+FE connection
- 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

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{IN} in the respective power segment)**Digital inputs**

Number

Input Type

Input filter

Input voltage, low

Input voltage, high

Sensor supply

Sensor connection

Reverse polarity protection

Module diagnosis

Individual channel diagnosis

General data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

< 12 mA + sensor feed

4

Types 1 and 3, IEC 61131-2

adjustable, up to 40 ms

< 5 V

> 11 V

yes

2-wire, 3-wire, 3-wire+FE

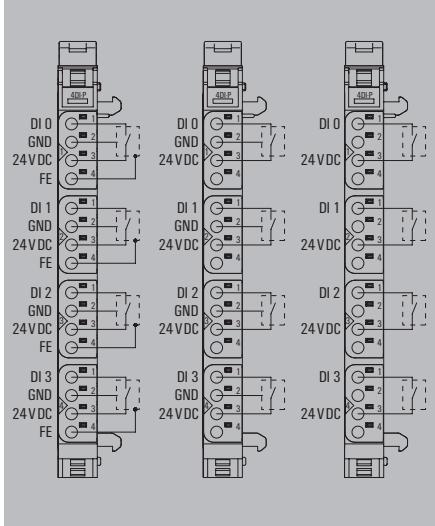
yes

yes

no

87 g

120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

**Ordering data****Module variants**

Digital input module, 4 channels

Type	Qty.	Order No.
UR20-4DI-P	1	1315170000

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

Electronics 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000

UR20-EM-1315170000-SP	1	1346640000
UR20-BM-SP	5	1350930000
UR20-PK-1315170000-SP	5	1346440000

*¹⁾ 1 roll = 1000 label = 1 Qty.*²⁾ 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315170000



Let's connect.

4DI-P-3W

- 4 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- Reverse polarity protection
- 2-wire and 3-wire connection
- 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

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{IN} in the respective power segment)**Digital inputs**

Number

Input Type

Input filter

Input voltage, low

Input voltage, high

Sensor supply

Sensor connection

Reverse polarity protection

Module diagnosis

Individual channel diagnosis

General data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

< 10 mA + sensor feed

4

Types 1 and 3, IEC 61131-2

adjustable, up to 40 ms

< 5 V

> 11 V

yes

2-wire, 3-wire

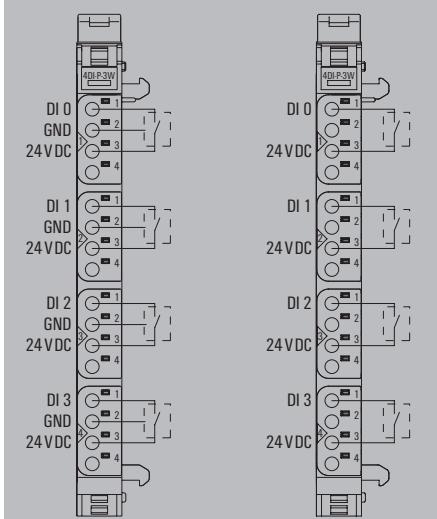
yes

yes

no

87 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

**Ordering data****Module variants**

Digital input module, 4 channels, 3-wire

Type	Qty.	Order No.
UR20-4DI-P-3W	1	2009360000

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

Electronics 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000

Type	Qty.	Order No.
UR20-EM-2009360000-SP	1	2011260000
UR20-BM-SP	5	1350930000
UR20-PK-2009360000-SP	5	2011240000

*¹⁾ 1 roll = 1000 label = 1 Qty.*²⁾ 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL (in preparation)	UL 61010-2-201
MSIP (in preparation)	MSIP-REM-WMG-2009360000



Let's connect.

8DI-P-2W

- 8 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- Reverse polarity protection
- 2-wire connection
- 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

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{IN} in the respective power segment)**Digital inputs**

Number

Input Type

Input filter

Input voltage, low

Input voltage, high

Sensor supply

Sensor connection

Reverse polarity protection

Module diagnosis

Individual channel diagnosis

General data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

< 22 mA

8

Types 1 and 3, IEC 61131-2

adjustable, up to 40 ms

< 5 V

> 11 V

yes

2-wire

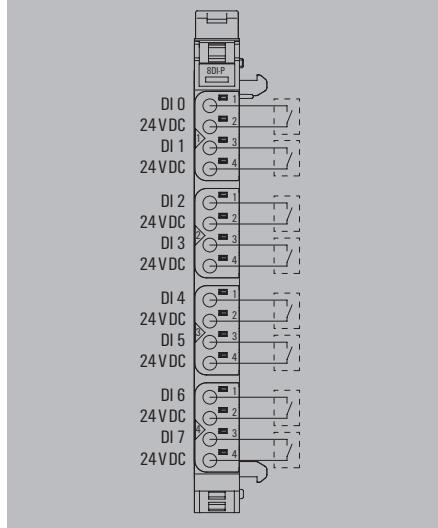
yes

yes

no

83 g

120 mm (with catch lever) x 11,5 mm x 76 mm

**Ordering data****Module variants**

Digital input module, 8 channels, 2-wire

Type	Qty.	Order No.
UR20-8DI-P-2W	1	1315180000

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

Electronics module

Basic module

Plug-in connector unit

Note**Type****Qty.****Order No.**

KOSM BHZ5.00

UR20-EBK-ACC

UR20-SM-ACC

PM 2.7/2.6 MC SDR

PM 2.7/2.6 MC NE WS

DEK 5/8-11.5 MC SDR

DEK 5/8-11.5 MC NE WS

THM UR20 GE *¹THM UR20 WS *¹ESO UR20 DIN A4 WS *²

UR20-EM-1315180000-SP

UR20-BM-SP

UR20-PK-1315180000-SP

Product standard

IEC 61131-2

EMC

EN 61000

ATEX

EN 60079

UL

UL 508



8DI-P-3W

- 8 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- Reverse polarity protection
- 2-wire and 3-wire connection
- 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
Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

Digital inputs

Number
Input Type
Input filter
Input voltage, low
Input voltage, high
Sensor supply
Sensor connection
Reverse polarity protection
Module diagnosis
Individual channel diagnosis

General data

Weight
Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

< 22 mA + sensor feed

8

Types 1 and 3, IEC 61131-2

adjustable, up to 40 ms

< 5 V

> 11 V

yes

2-wire, 3-wire

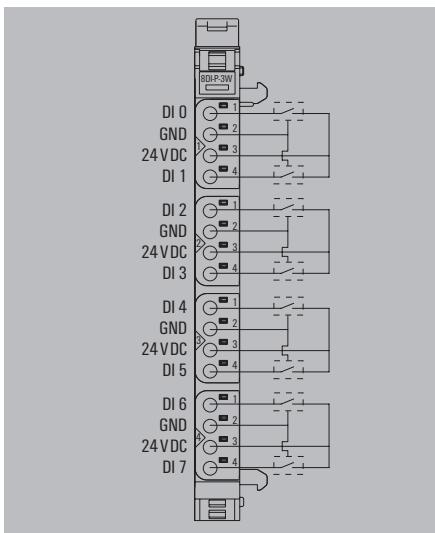
yes

yes

no

83 g

120 mm (with catch lever) x 11,5 mm x 76 mm

**Ordering data****Module variants**

Digital input module, 8 channels, 3-wire

Type	Qty.	Order No.
UR20-8DI-P-3W	1	1394400000

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

Electronics 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000

UR20-EM-1394400000-SP	1	1346650000
UR20-BM-SP	5	1350930000
UR20-PK-1394400000-SP	5	1411430000

*¹⁾ 1 roll = 1000 label = 1 Qty.

*²⁾ 1 sheet = 60 label = 1 Qty.

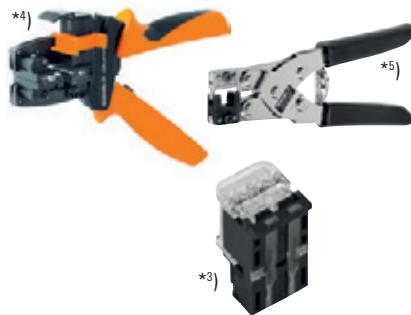
Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1394400000



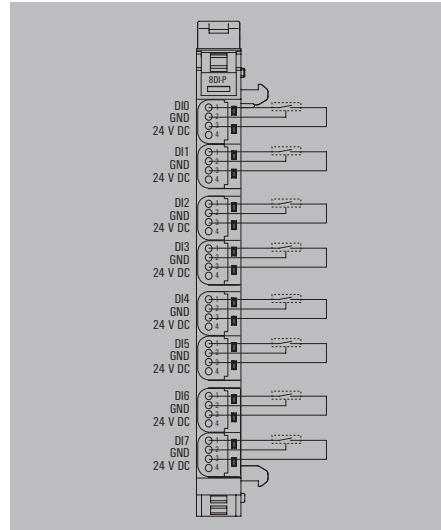
Let's connect.

8DI-P-3W-HD

- 8 plugs with 4 connections per module
- 8 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- Reverse polarity protection
- 2-wire and 3-wire connection
- 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
Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

Digital inputs

Number
Input Type
Input filter
Input voltage, low
Input voltage, high
Sensor supply
Sensor connection
Reverse polarity protection
Module diagnosis
Individual channel diagnosis

General data

Weight
Dimensions (H/W/D)

Ordering data**Module variants**

Digital input module, 8 channels, 3-wire, HD plug

u-remote system bus
48 Mbps
DC 500 V between current paths
24 V DC +20 % / -15 % via the system bus
8 mA
< 30 mA + sensor feed
8
Types 1 and 3, IEC 61131-2
adjustable, up to 40 ms
< 5 V
> 11 V
maximum 150 mA per channel
2-wire, 3-wire
yes
yes
no
83 g
120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Accessories**Coding elements**

Termination kit
Swivel marker
*³) HD-Plug
*⁴) Stripping tool
*⁵) Pressing tool
Module marker for custom printing
Module marker for neutral
Thermotransfer version (Material: Polyester)
Thermotransfer version (Material: Polyester)
Paper version for Laserprinter

Replacement parts

Electronics module
Basic module
Plug-in connector unit

Note

Type	Qty.	Order No.
UR20-8DI-P-3W-HD	1	1315190000
KOSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
UR20-PG0.35	8	1469340000
multi-stripax 6-16	1	9202210000
PWZ-UR20-HD	1	1525820000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE * ¹)	1	1429910000
THM UR20 WS * ¹)	1	1429420000
ESO UR20 DIN A4 WS * ²)	10	1429430000
UR20-EM-1315190000-SP	1	1346670000
UR20-BM-SP	5	1350930000
UR20-PK-1315190000-SP	5	1518800000

*¹) 1 roll = 1000 label = 1 Qty.
*²) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

16DI-P

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

UR20-16DI-P**Technical data****System data**

Interface
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

Digital inputs

Number
Input Type
Input filter
Input voltage, low
Input voltage, high
Sensor supply
Sensor connection
Reverse polarity protection
Module diagnosis
Individual channel diagnosis

General data

Weight
Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

< 42 mA

16

Types 1 and 3, IEC 61131-2

3 ms

< 5 V

> 11 V

no

1-wire

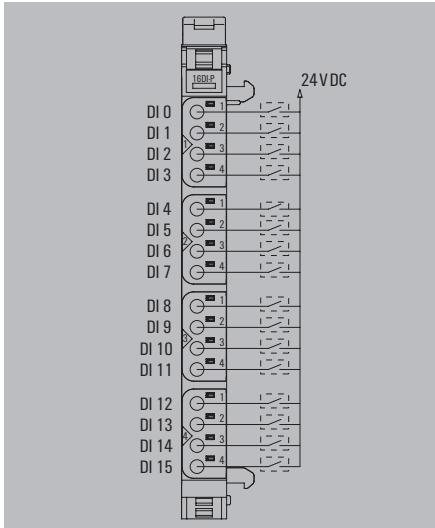
yes

yes

no

87 g

120 mm (with catch lever) x 11,5 mm x 76 mm

**Ordering data****Module variants**

Digital input module, 16 channels

Type	Qty.	Order No.
UR20-16DI-P	1	1315200000

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

Electronics 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000

UR20-EM-1315200000-SP	1	1346680000
UR20-BM-SP	5	1350930000
UR20-PK-1315200000-SP	5	1346400000

*¹⁾ 1 roll = 1000 label = 1 Qty.*²⁾ 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315200000



Let's connect.

16DI-P-PLC-INT

- 16 digital inputs
- Positive switching
- Reverse polarity protection
- For connecting a PLC interface element
- 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 rate of system bus	48 Mbps
Galvanic isolation	DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / -15 % via the system bus
Current consumption (I_{IN} in power segment of field bus coupler), typ.	8 mA
Current consumption (I_{IN} external)	< 42 mA

Digital inputs

Number	16
Input Type	Types 1 and 3, IEC 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	73 g
Dimensions (H/W/D)	120 mm (with catch lever) x 11,5 mm x 76 mm

Ordering data**Module variants**

Digital input module, 16 channels, PLC interface

Type	Qty.	Order No.
UR20-16DI-P-PLC-INT	1	1315210000

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	
PLC interface element	
Pre-assembled cable, 1m	

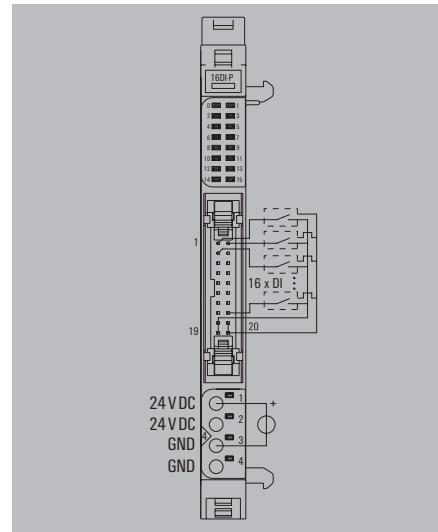
Replacement parts

Electronics 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) 1 roll = 1000 label = 1 Qty.

*²) 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

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
- Input filter can be set channel by channel
- Types 1 and 3 acc. to IEC 61131-2
- 1 µs Timestamp resolution

UR20-2DI-P-TS**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{IN} in the respective power segment)**Digital Inputs**

Number

Input Type

Input filter

Input voltage, low

Input voltage, high

Sensor supply

Sensor connection

Reverse polarity protection

Module diagnosis

Individual channel diagnosis

Data width Timestamp

Resolution Timestamp

General data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

< 10 mA + sensor feed

2

Type 1 und 3, IEC 61131-2

adjustable, up to 40 ms

< 5 V

> 11 V

yes

2-wire, 3-wire, 3-wire+FE

yes

yes

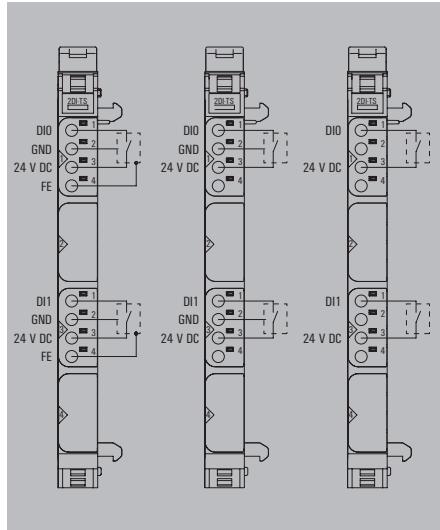
no

16 Bit

1 µs

83 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

**Ordering data****Module variants**

Digital input module, 2 channels, Timestamp

Type	Qty.	Order No.
UR20-2DI-P-TS	1	1460140000

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

Electronics 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1460140000-SP	1	1463690000
UR20-BM-SP	5	1350930000
UR20-PK-1460140000-SP	5	1484110000

*¹⁾ 1 roll = 1000 label = 1 Qty.*²⁾ 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1460140000



Let's connect.

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
- Input filter can be set channel by channel
- Types 1 and 3 acc. to IEC 61131-2
- 1 µs Timestamp resolution

UR20-4DI-P-TS**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{IN} in the respective power segment)**Digital Inputs**

Number

Input Type

Input filter

Input voltage, low

Input voltage, high

Sensor supply

Sensor connection

Reverse polarity protection

Module diagnosis

Individual channel diagnosis

Data width Timestamp

Resolution Timestamp

General data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

< 10 mA + sensor feed

4

Types 1 and 3, IEC 61131-2

adjustable, up to 40 ms

< 5 V

> 11 V

yes

2-wire, 3-wire, 3-wire+FE

yes

yes

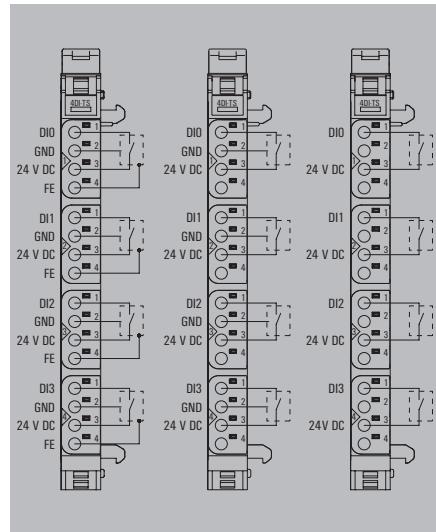
no

16 Bit

1 µs

87 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

**Ordering data****Module variants**

Digital input module, 4 channels, Timestamp

Type	Qty.	Order No.
UR20-4DI-P-TS	1	1460150000

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

Electronics 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1460150000-SP	1	1463680000
UR20-BM-SP	5	1350930000
UR20-PK-1460150000-SP	5	1484430000

*¹⁾ 1 roll = 1000 label = 1 Qty.*²⁾ 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1460150000



Let's connect.

4DI-N

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

UR20-4DI-N**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption from system current path I_{SYS} Current consumption from input current path I_{IN} **Inputs**

Number

Input Type

Input filter

Input voltage, low

Input voltage, high

Sensor supply

Sensor connection

Reverse polarity protection

Module diagnosis

Individual channel diagnosis

General Data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

< 12 mA + sensor feed

4

N-switching, comparable to Type 1 and Type 3 (IEC 61131-2)

adjustable, up to 40 ms

-5 V referred to system power supply U_{SYS} -11 V referred to system power supply U_{SYS}

max. 2 A per plug, total max. 8 A

2-wire, 3-wire, 3-wire + FE

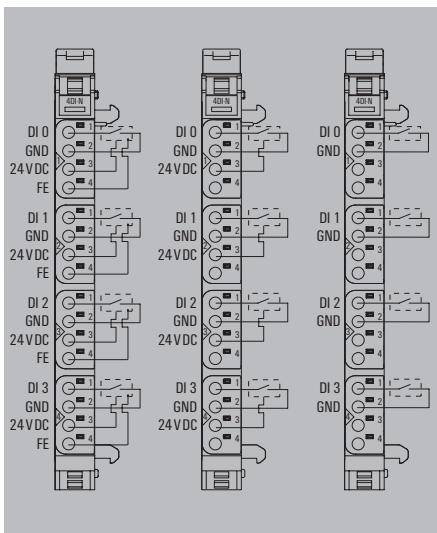
yes

yes

no

87 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

**Ordering data****Module variants**

Digital input module, 4 channels

Type	Qty.	Order No.
UR20-4DI-N	1	1315350000

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

Electronics 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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000

UR20-EM-1315350000-SP	1	1346870000
UR20-BM-SP	5	1350930000
UR20-PK-1315350000-SP	5	1559770000

* ¹⁾ 1 roll = 1000 label = 1 Qty.
* ²⁾ 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315350000



Let's connect.

8DI-N-3W

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

UR20-8DI-N-3W**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption from system current path I_{SYS} Current consumption from input current path I_{IN} **Inputs**

Number

Input Type

Input filter

Input voltage, low

Input voltage, high

Sensor supply

Sensor connection

Reverse polarity protection

Module diagnosis

Individual channel diagnosis

General Data

Weight

Dimensions (H/W/D)

Ordering data**Module variants**

Digital input module, 8 channels, 3-wire

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

< 12 mA + sensor feed

8

N-switching, comparable to Type 1 and Type 3 (IEC 61131-2)

adjustable, up to 40 ms

-5 V referred to system power supply U_{SYS} -11 V referred to system power supply U_{SYS}

max. 2 A per plug, total max. 8 A

2-wire, 3-wire

yes

yes

no

83 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

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

Electronics module

Basic module

Plug-in connector unit

Note**Type****Qty.****Order No.**

UR20-8DI-N-3W 1 1315370000

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

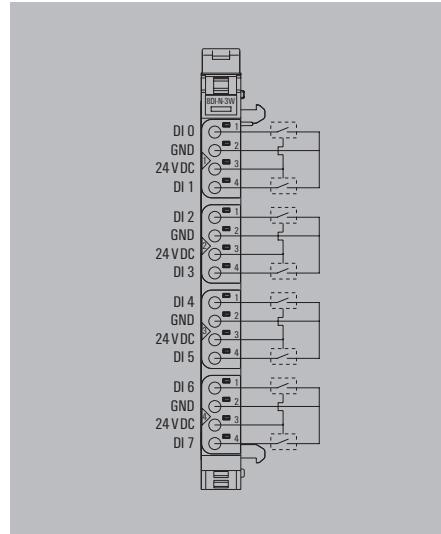
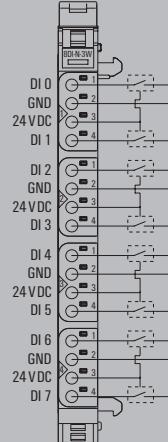
DEK 5/8-11.5 MC NE WS 500 1341630000

THM UR20 GE *¹ 1 1429910000THM UR20 WS *¹ 1 1429420000ESO UR20 DIN A4 WS *² 10 1429430000

UR20-EM-1315370000-SP 1 1346880000

UR20-BM-SP 5 1350930000

UR20-PK-1315370000-SP 5 1559780000

*¹ 1 roll = 1000 label = 1 Qty.*² 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315390000



Let's connect.

16DI-N

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

UR20-16DI-N**Technical data****System data**

Interface

Transmission rate of system bus

u-remote system bus

48 Mbps

Galvanic isolation

DC 500 V between current paths

Supply

Voltage supply

24 V DC +20 % / -15 % via the system bus

Current consumption from system current path I_{SYS}

8 mA

Current consumption from input current path I_{IN}

< 15 mA

Inputs

Number

16

Input Type

N-switching, comparable to Type 1 and Type 3 (IEC 61131-2)

Input filter

3 ms

Input voltage, low

-5 V referred to system power supply U_{SYS}

Input voltage, high

-11 V referred to system power supply U_{SYS}

Sensor supply

no

Sensor connection

1-wire

Reverse polarity protection

yes

Module diagnosis

yes

Individual channel diagnosis

no

General Data

Weight

88 g

Dimensions (H/W/D)

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data**Module variants**

Digital input module, 16 channels

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

Accessories

Coding elements

Type	Qty.	Order No.
KOSM BHZ5.00	100	1483050000

Termination kit

UR20-EBK-ACC	5	1346610000
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Swivel marker

UR20-SM-ACC	20	1339920000
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Connection marker for pusher custom printing

PM 2.7/2.6 MC SDR	192	1323700000
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Connection marker for pusher neutral

PM 2.7/2.6 MC NE WS	960	1323710000
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Module marker for custom printing

DEK 5/8-11.5 MC SDR	100	1341610000
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Module marker for neutral

DEK 5/8-11.5 MC NE WS	500	1341630000
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Thermotransfer version (Material: Polyester)

THM UR20 GE * ¹⁾	1	1429910000
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Thermotransfer version (Material: Polyester)

THM UR20 WS * ¹⁾	1	1429420000
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Paper version for Laserprinter

ESO UR20 DIN A4 WS * ²⁾	10	1429430000
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Replacement parts

Electronics module

UR20-EM-1315390000-SP	1	1346920000
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Basic module

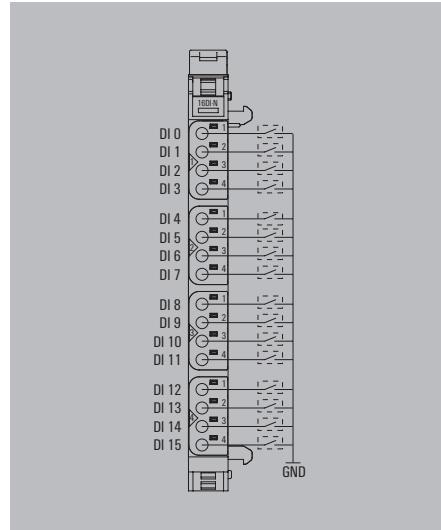
UR20-BM-SP	5	1350930000
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Plug-in connector unit

UR20-PK-1315390000-SP	5	1559790000
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Note*¹⁾ 1 roll = 1000 label = 1 Qty.*²⁾ 1 sheet = 60 label = 1 Qty.

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



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

16DI-N-PLC-INT

- 16 digital inputs
- Negative switching
- Reverse polarity protection
- For connecting a PLC interface element
- 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 rate of system bus	48 Mbps
Galvanic isolation	DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / -15 % via the system bus
Current consumption from system current path I_{SYS}	8 mA
Current consumption from input current path I_{IN}	< 15 mA

Inputs

Number	16
Input Type	N-switching, comparable to Type 1 and Type 3 (IEC 61131-2)
Input filter	3 ms
Input voltage, low	-5 V referred to system power supply U_{SYS}
Input voltage, high	-11 V referred to system power supply U_{SYS}
Sensor supply	external
Sensor connection	PLC interface
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no

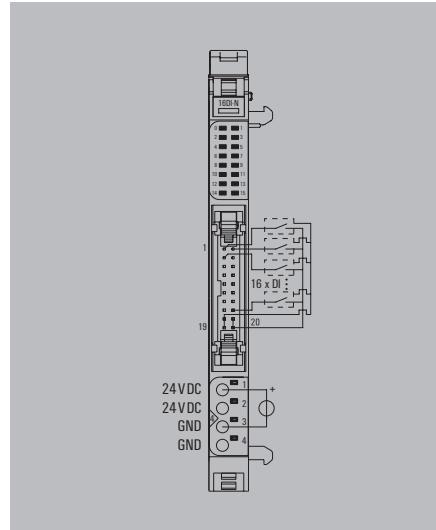
General Data

Weight	73 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data**Module variants**

Digital input module, 16 channels, PLC interface

Type	Qty.	Order No.
UR20-16DI-N-PLC-INT	1	1315400000

**Accessories**

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⁾	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS * ²⁾	10	1429430000
PLC interface element	RS 16IO 1W H S	1	9445700000
Pre-assembled cable, 1m	PAC-UNIV-HE20-LCH-1M	1	7789306010

Replacement parts

Electronics 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⁾ 1 roll = 1000 label = 1 Qty.
* ²⁾ 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL (in preparation)	UL 508



Let's connect.

4DI-2W-230V-AC

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

UR20-4DI-2W-230V-AC**Technical data****System data**

Interface
Transmission rate of system bus
Galvanic isolation

Line-to-line voltage**Supply**

Voltage supply
Current consumption from system current path I_{sys}
Current consumption from input current path I_{in}

Inputs

Number
Input Type
Input filter
Input voltage, low
Input voltage, high
Input voltage max.
Input frequency
Sensor supply
Sensor connection
Module diagnosis
Individual channel diagnosis

General Data

Weight
Dimensions (H/W/D)

u-remote system bus

48 Mbps

4 kV between channels and between channels and powersupply

400 V between channels

24 V DC +20 % / -15 % via the system bus

8 mA

no

4

Type 3, IEC 61131-2, P-switching
adjustable, up to 10 ms

< 65 V

≥ 80 V

277 V (UL); 264,5 V (VDE)

50 Hz, 60 Hz

no

2-wire

yes

no

87 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data**Module variants**

Digital input module, 4 channels, 230V AC

Type	Qty.	Order No.
UR20-4DI-2W-230V-AC	1	1550070000

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

Electronics module
Basic module
Plug-in connector unit

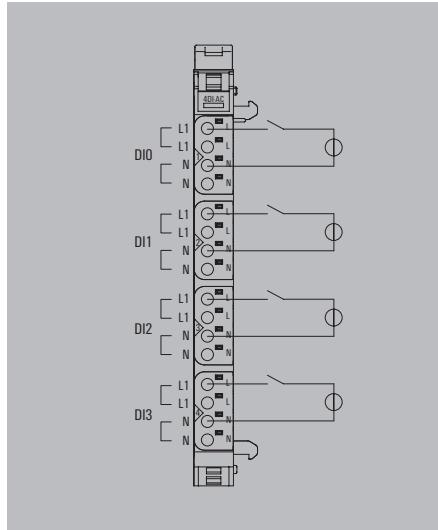
Note

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000

UR20-EM-1550070000-SP	1	1558880000
UR20-BM-SP	5	1350930000
UR20-PK-1550070000-SP	5	1559820000

*¹⁾ 1 roll = 1000 label = 1 Qty.

*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL (in preparation)	UL 508
MSIP	MSIP-REM-WMG-1550070000



Let's connect.

IP20

A

Digital output modules

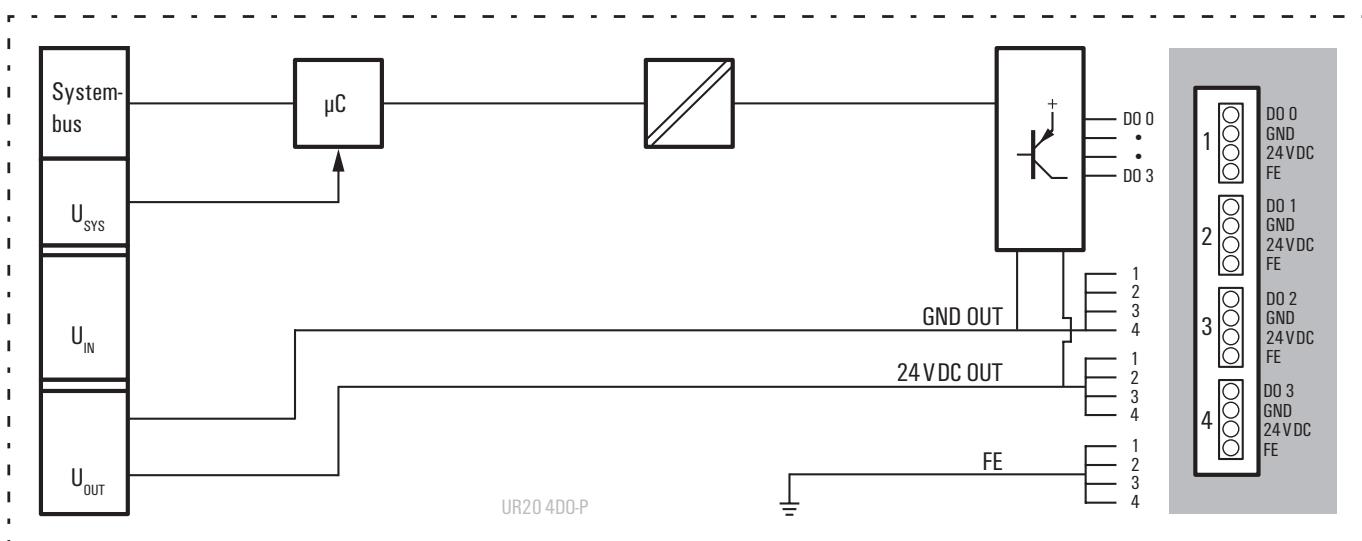
P- or N-switching; short-circuit-proof; up to 3-wire+FE

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 4-DO Module.

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

UR20-4DO-P block diagram example



4DO-P

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

UR20-4DO-P**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{OUT} in the respective power segment)**Digital outputs**

Number

Type of load

Response time, high

Response time, low

Output current per channel, max.

Output current per module, max.

Switching frequency max.

Resistive load (min. 47 Ω)

Inductive load (DC 13)

Lamp load (12 W)

Actuator connection

Short-circuit-proof

Non reactive

Module diagnosis

Individual channel diagnosis

Shutdown energy (inductive)

Response time of protective circuit (current limitation)

General data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

10 mA + load

4

ohmic, inductive, lamp load

100 µs

250 µs

0.5 A

2 A

1 kHz

2 Hz

1 kHz

2-wire, 3-wire, 3-wire+FE

thermal

yes

yes

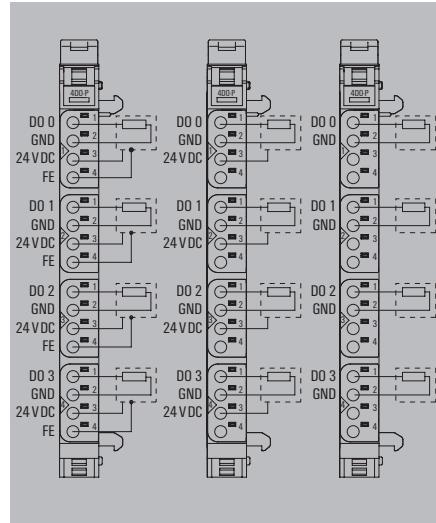
no

150 mJ / channel

< 100 µs (ambient temperature dependent)

86 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

**Ordering data****Module variants**

Digital output module, 4 channels

Type	Qty.	Order No.
UR20-4DO-P	1	1315220000

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

Electronics 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	1322700000
PM 2.7/2.6 MC NE WS	960	1322710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE *1)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315220000



Let's connect.

4DO-P-2A

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

UR20-4DO-P-2A**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{OUT} in the respective power segment)**Digital outputs**

Number

Type of load

Response time, high

Response time, low

Output current per channel, max.

Output current per module, max.

Switching frequency max.

Resistive load (min. 47 Ω)

Inductive load (DC 13)

Lamp load (48 W)

Actuator connection

Short-circuit-proof

Non reactive

Module diagnosis

Individual channel diagnosis

Shutdown energy (inductive)

Response time of protective circuit (current limitation)

General data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

10 mA + load

4

ohmic, inductive, lamp load

100 µs

250 µs

2 A

8 A

1 kHz

2 Hz

1 kHz

2-wire, 3-wire, 3-wire+FE

thermal

yes

yes

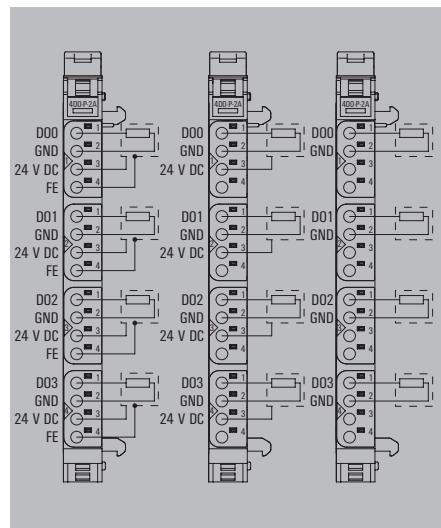
no

150 mJ / channel

< 100 µs (ambient temperature dependent)

86 g

120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

**Ordering data****Module variants**

Digital output module, 4 channels, 2 A

Type	Qty.	Order No.
UR20-4DO-P-2A	1	1315230000

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

Electronics 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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.

Product standard

IEC 61131-2

EMC

EN 61000

ATEX

EN 60079

UL

UL 508

MSIP

MSIP-REM-WMG-1315230000



Let's connect.

4DO-PN-2A

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

UR20-4DO-PN-2A**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{OUT} in the respective power segment)**Digital outputs**

Number

Positive or negative switching

Type of load

Response time, high

Response time, low

Output current per channel, max.

Output current per module, max.

Switching frequency max.

Resistive load (min. 47 Ohm)

Inductive load (DC 13)

Lamp load (48 W)

Actuator connection

Short-circuit-proof

Non reactive

Module diagnosis

Individual channel diagnosis

Shut-down energy (inductive)

Response time of protective circuit (current limitation)

General data

Weight

Dimensions (H/W/D)

Ordering data**Module variants**

Digital output module, 4 channels, positively or negatively switching

u-remote system bus
48 Mbps
DC 500 V between current paths
24 V DC +20 % / -15 % via the system bus
8 mA
10 mA + load
4
parameterise
ohmic, inductive, lamp load
100 µs
250 µs
2 A
8 A
1 kHz
2 Hz
1 kHz
2-wire, 3-wire, 3-wire+FE
thermal
yes
yes
no
150 mJ / channel
< 100 µs (ambient temperature dependent)
87 g
120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

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

Electronics module

Basic module

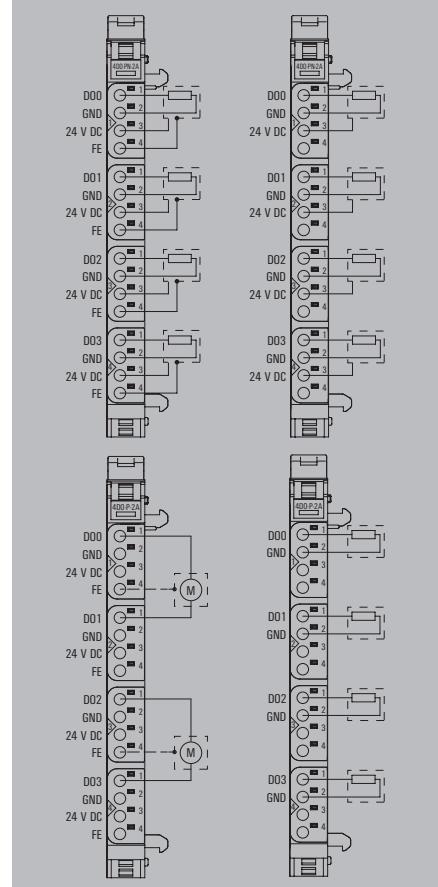
Plug-in connector unit

Note

Type	Qty.	Order No.
UR20-4DO-PN-2A	1	13494420000
KOSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SMA-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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000
UR20-EM-1394420000-SP	1	1480950000
UR20-BM-SP	5	1350930000
UR20-PK-1394420000-SP	5	1483980000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1394420000



Let's connect.

8DO-P

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

UR20-8DO-P**Technical data****System data**

Interface
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{OUT} in the respective power segment)

Digital outputs

Number
Type of load
Response time, high
Response time, low
Output current per channel, max.

Output current per module, max.
Switching frequency max.

- Resistive load (min. 47 Ω)
- Inductive load (DC 13)
- Lamp load (12 W)

Actuator connection

Short-circuit-proof

Non reactive

Module diagnosis

Individual channel diagnosis

Shut-down energy (inductive)

Response time of protective circuit (current limitation)

General data

Weight
Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

15 mA + load

8

ohmic, inductive, lamp load

100 µs

250 µs

0.5 A

4 A

1 kHz

0.2 Hz without snubber diode / 1 kHz with suitable snubber diode

1 kHz

2-wire

thermal

yes

yes

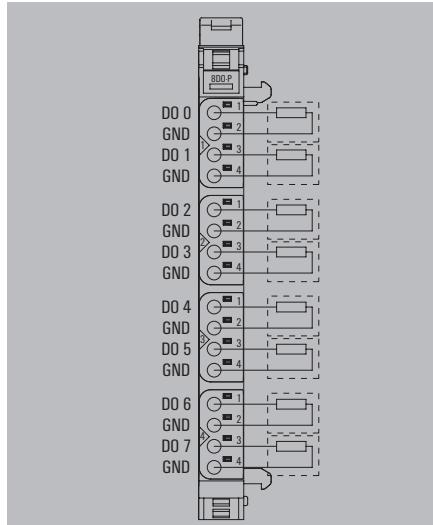
no

150 mJ / channel

< 100 µs (ambient temperature dependent)

87 g

120 mm (with catch lever) x 11.5 mm x 76 mm

**Ordering data****Module variants**

Digital output module, 8 channels

Type	Qty.	Order No.
UR20-8DO-P	1	1315240000

*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.

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

Electronics 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	1322700000
PM 2.7/2.6 MC NE WS	960	1322710000
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-1315240000-SP	1	1346720000
UR20-BM-SP	5	1350930000
UR20-PK-1315240000-SP	5	1346410000

*) 1 roll = 1000 label = 1 Qty.

**) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315240000



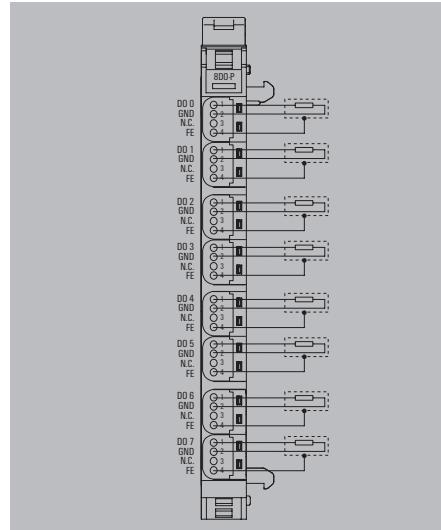
Let's connect.

8DO-P-2W-HD

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

UR20-8DO-P-2W-HD

Note: Please order connector separately

**Technical data****System data**

Interface
Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{OUT} in the respective power segment)

Digital outputs

Number
Type of load
Response time, high
Response time, low
Output current per channel, max.

Output current per module, max.
Switching frequency max.

- Resistive load (min. 47 Ω)
- Inductive load (DC 13)
- Lamp load (12 W)

Actuator connection

Short-circuit-proof

Non reactive

Module diagnosis

Individual channel diagnosis

Shut-down energy (inductive)

Response time of protective circuit (current limitation)

General data

Weight
Dimensions (H/W/D)

Ordering data**Module variants**

Digital output module, 8 channels, HD-plug

Note**Accessories**

Coding elements
Termination kit
Swivel marker
*3) HD-Plug
*4) Stripping tool
*5) Pressing tool
Module marker for custom printing
Module marker for neutral
Thermotransfer version (Material: Polyester)
Thermotransfer version (Material: Polyester)
Paper version for Laserprinter

Replacement parts

Type	Qty.	Order No.
UR20-EM-1509830000-SP	1	1515450000
UR20-BM-SP	5	1350930000
UR20-PK-1509830000-SP	5	1559720000

Note

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1509830000



Let's connect.

16DO-P

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

UR20-16DO-P**Technical data****System data**

Interface
Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{OUT} in the respective power segment)

Digital outputs

Number
Type of load
Response time, high
Response time, low
Output current per channel, max.

Output current per module, max.
Switching frequency max.

Resistive load (min. 47 Ω)
Inductive load (DC 13)
Lamp load (12 W)

Actuator connection

Short-circuit-proof

Non reactive

Module diagnosis

Individual channel diagnosis

Shut-down energy (inductive)

Response time of protective circuit (current limitation)

General data

Weight
Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

20 mA + load

16

ohmic, inductive, lamp load

100 µs

250 µs

0.5 A

8 A

1 kHz

0.2 Hz

1 kHz

1-wire

thermal

yes

yes

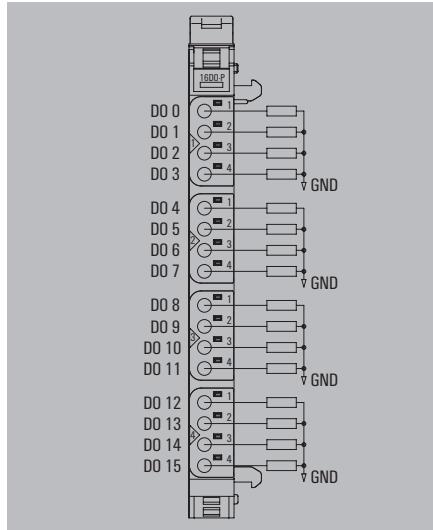
no

150 mJ / channel

< 100 µs (ambient temperature dependent)

83 g

120 mm (with catch lever) 128 mm x 11.5 mm x 76 mm

**Ordering data****Module variants**

Digital output module, 16 channels

Type	Qty.	Order No.
UR20-16DO-P	1	1315250000

*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.

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

Electronics 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	1322700000
PM 2.7/2.6 MC NE WS	960	1322710000
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-1315250000-SP	1	1346730000
UR20-BM-SP	5	1350930000
UR20-PK-1315250000-SP	5	1483990000

*) 1 roll = 1000 label = 1 Qty.

**) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315250000



Let's connect.

16DO-P-PLC-INT

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

UR20-16DO-P-PLC-INT**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{OUT} external)**Digital outputs**

Number

Type of load

Response time, high

Response time, low

Output current per channel, max.

Output current per module, max.

Switching frequency max.

Resistive load (min. 47 Ω)

Inductive load (DC 13)

Lamp load (12 W)

Actuator connection

Short-circuit-proof

Non reactive

Module diagnosis

Individual channel diagnosis

Shut-down energy (inductive)

Response time of protective circuit (current limitation)

General data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

20 mA + load

16

ohmic, inductive, lamp load

100 µs

250 µs

0.5 A

8 A (2 A with supply via a flat ribbon cable)

1 kHz

0.2 Hz

1 kHz

PLC interface

thermal

yes

yes

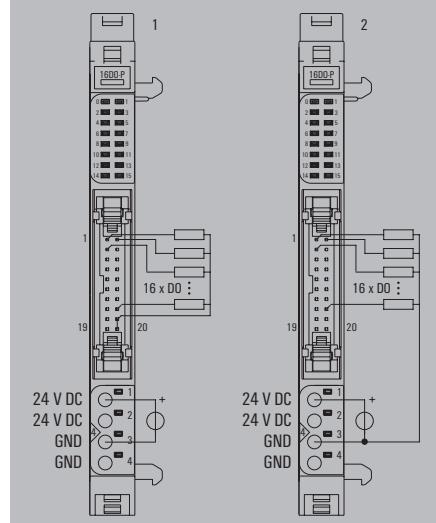
no

150 mJ / channel

< 100 µs (ambient temperature dependent)

82 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

**Ordering data****Module variants**

Digital output module, 16 channels, PLC interface

Type	Qty.	Order No.
UR20-16DO-P-PLC-INT	1	1315270000

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

PLC interface element

Pre-assembled cable, 1m

Replacement parts

Electronics 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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000
RS 16IO 1W H S	1	9445700000
PAC-UNIV-HE20-LCH-1M	1	7789306010
UR20-EM-1315270000-SP	1	1346740000
UR20-BM-SP	5	1350930000
UR20-PK-1315270000-SP	5	1483940000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315270000



Let's connect.

4DO-N

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

UR20-4DO-N**Technical data****System data**

Interface

Transmission rate of system bus

u-remote system bus

Galvanic isolation

48 Mbps

Supply

Voltage supply

DC 500 V between current paths

Current consumption from system current path I_{SYS}

24 V DC +20 % / -15 % via the system bus

Current consumption from output current path I_{OUT}

8 mA

Outputs

Number, Type

4, N-switching

Type of load

ohmic, inductive, lamp load

Response time, high

100 µs

Response time, low

250 µs

Output current per channel, max.

0.5 A

Output current per module, max.

2 A

Switching frequency max.

1 kHz

Resistive load (min. 47 Ω)

2 Hz without free-wheeling diode; 1 kHz with suitable free wheeling diode

Inductive load (DC 13)

10 Hz

Lamp load (12 W)

2-wire, 3-wire, 3-wire + FE

Actuator connection

yes

Short-circuit-proof

no

Non reactive

yes

Module diagnosis

yes

Individual channel diagnosis

< 100 ms (ambient temperature dependent)

Shut-down energy (inductive)

150 mJ / channel

Response time of protective circuit (current limitation)

< 100 ms (ambient temperature dependent)

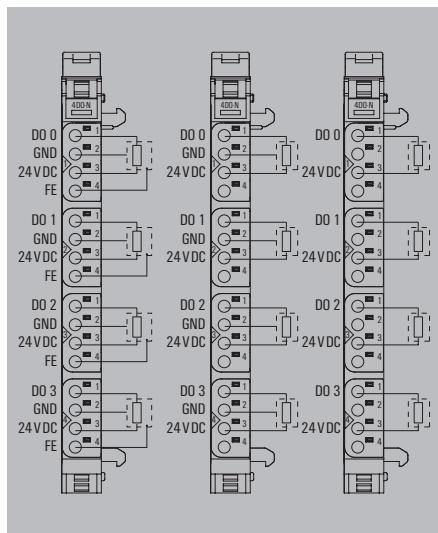
General Data

Weight

86 g

Dimensions (H/W/D)

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

**Ordering data****Module variants**

Digital output module, 4 channels

Type	Qty.	Order No.
UR20-4DO-N	1	1315410000

Accessories

Coding elements

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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000

Replacement parts

UR20-EM-1315410000-SP	1	1346940000
UR20-BM-SP	5	1350930000
UR20-PK-1315410000-SP	5	1559840000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315410000



Let's connect.

4DO-N-2A

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

UR20-4DO-N-2A**Technical data****System data**

Interface

Transmission rate of system bus

u-remote system bus

48 Mbps

Galvanic isolation

DC 500 V between current paths

Supply

Voltage supply

24 V DC +20 % / -15 % via the system bus

Current consumption from system current path I_{SYS}

8 mA

Current consumption from output current path I_{OUT}

10 mA + load

Outputs

Number, Type

4, N-switching

Type of load

ohmic, inductive, lamp load

Response time, high

100 µs

Response time, low

250 µs

Output current per channel, max.

2 A

Output current per module, max.

8 A

Switching frequency max.

1 kHz

Resistive load (min. 47 Ω)

Inductive load (DC 13)

Lamp load (48 W)

Actuator connection

2-wire, 3-wire, 3-wire + FE

Short-circuit-proof

yes

Non reactive

yes

Module diagnosis

yes

Individual channel diagnosis

no

Shut-down energy (inductive)

150 mJ / channel

Response time of protective circuit (current limitation)

< 100 Hs (ambient temperature dependent)

General Data

Weight

89 g

Dimensions (H/W/D)

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data**Module variants**

Digital output module, 4 channels, 2 A

Type	Qty.	Order No.
UR20-4DO-N-2A	1	1315420000

Accessories

Coding elements

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	1322700000
PM 2.7/2.6 MC NE WS	960	1322710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE *1)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000

Termination kit

UR20-EM-1315420000-SP	1	1346950000
UR20-BM-SP	5	1350930000
UR20-PK-1315420000-SP	5	1559850000

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

Electronics module

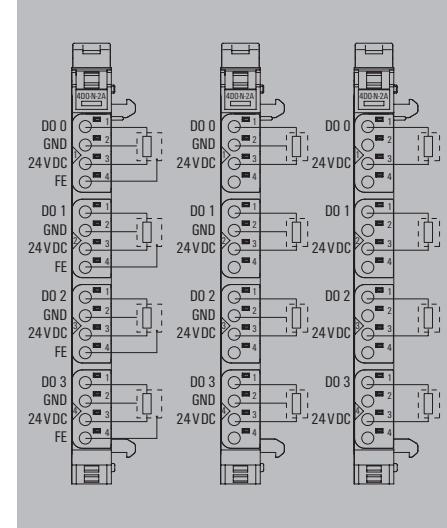
Basic module

Plug-in connector unit

Note

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315420000



Let's connect.

8DO-N

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

UR20-8DO-N**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption from system current path I_{SYS} Current consumption from output current path I_{OUT} **Outputs**

Number, Type

Type of load

Response time, high

Response time, low

Output current per channel, max.

Output current per module, max.

Switching frequency max.

Resistive load (min. 47 Ω)

Inductive load (DC 13)

Lamp load (12 W)

Actuator connection

Short-circuit-proof

Non reactive

Module diagnosis

Individual channel diagnosis

Shutdown energy (inductive)

Response time of protective circuit (current limitation)

General Data

Weight

Dimensions (H/W/D)

Ordering data**Module variants**

Digital output module, 8 channels

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

10 mA + load

8, N-switching

ohmic, inductive, lamp load

100 µs

250 µs

0.5 A

4 A

1 kHz

2 Hz without free-wheeling diode; 1 kHz with suitable free wheeling diode

10 Hz

2-wire

yes

yes

yes

no

150 mJ / channel

< 100 µs

87 g

120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

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

Electronics module

Basic module

Plug-in connector unit

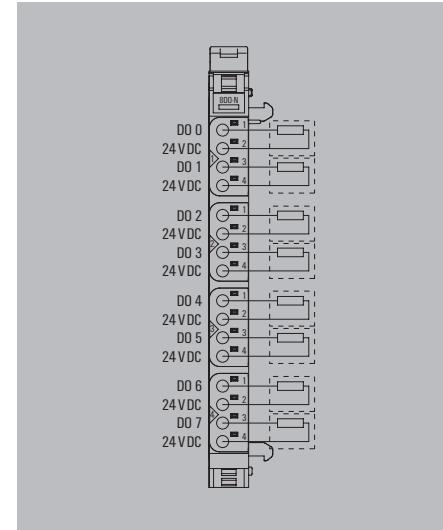
Note

Type	Qty.	Order No.
UR20-8DO-N	1	1315430000

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	1322700000
PM 2.7/2.6 MC NE WS	960	1322710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE *1)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000
UR20-EM-1315430000-SP	1	1346970000
UR20-BM-SP	5	1350930000
UR20-PK-1315430000-SP	5	1984770000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315430000



Let's connect.

16DO-N

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

UR20-16DO-N**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{OUT} in the respective power segment)**Digital outputs**

Number, Type

Type of load

Response time, high

Response time, low

Output current per channel, max.

Output current per module, max.

Switching frequency max.

Resistive load (min. 47 Ω)

Inductive load (DC 13)

Lamp load (12 W)

Actuator connection

Short-circuit-proof

Non reactive

Module diagnosis

Individual channel diagnosis

Shut-down energy (inductive)

Response time of protective circuit (current limitation)

General data

Weight

Dimensions (H/W/D)

Ordering data**Module variants**

Digital output module, 16 channels

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

15 mA + load

16, N-switching

ohmic, inductive, lamp load

100 µs

250 µs

0.5 A

8 A

1 kHz

2 Hz

10 Hz

1-wire

thermal

yes

yes

no

150 mJ / channel

< 100 µs

89 g

120 mm (with catch lever) 128 mm x 11.5 mm x 76 mm

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

Electronics module

Basic module

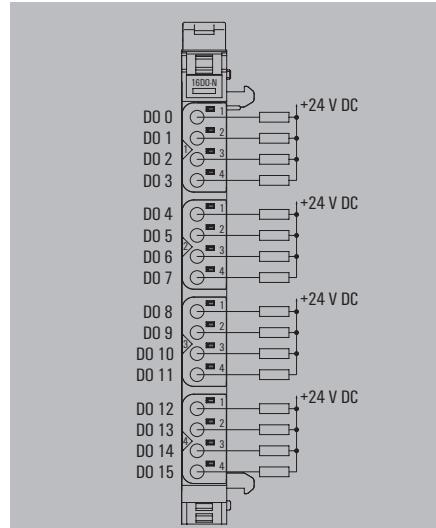
Plug-in connector unit

Note

Type	Qty.	Order No.
UR20-16DO-N	1	1315440000
UR20-EM-1315440000-SP	1	1346980000
UR20-BM-SP	5	1350930000
UR20-PK-1315440000-SP	5	2000520000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL (in preparation)	UL 61010-2-201
MSIP (in preparation)	MSIP-REM-WMG-1315440000



Let's connect.

Digital output modules

16DO-N-PLC-INT

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

UR20-16DO-N-PLC-INT



Technical data

System data

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.

Current consumption (I_{OUT} external)

Digital outputs

Number, Type

Type of load

Response time, high

Response time, low

Output current per channel, max.

Output current per module, max.

Switching frequency max.

Resistive load (min. 47 Ω)

Inductive load (DC 13)

Lamp load (12 W)

Actuator connection

Short-circuit-proof

Non reactive

Module diagnosis

Individual channel diagnosis

Shut-down energy (inductive)

Response time of protective circuit (current limitation)

General data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

30 mA + load, power supply via feed-in plug or PLC connection

16, N-switching

ohmic, inductive, lamp load

100 µs

250 µs

0.5 A

8 A (2 A with supply via a flat ribbon cable)

1 kHz

2 Hz

10 Hz

PLC interface

thermal

yes

yes

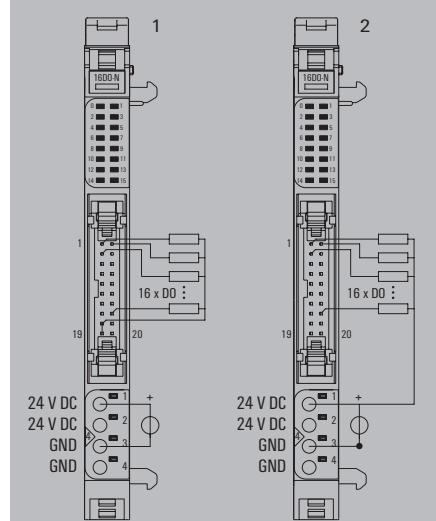
no

150 mJ / channel

< 100 µs

83 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm



Ordering data

Module variants

Digital output module, 16 channels, PLC interface

Type	Qty.	Order No.
UR20-16DO-N-PLC-INT	1	1315450000

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

PLC interface element

Pre-assembled cable, 1m

Replacement parts

Electronics 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) 1 1429910000

THM UR20 WS *1) 1 1429420000

ESO UR20 DIN A4 WS *2) 10 1429430000

RS 1610 1W H S 1 9445700000

PAC-UNIV-HE20-LCH-1M 1 7789306010

UR20-EM-1315450000-SP 1 1346990000

UR20-BM-SP 5 1350930000

UR20-PK-1315450000-SP 5 2000540000

Product standard

IEC 61131-2

EMC

EN 61000

ATEX (in preparation)

EN 60079

UL (in preparation)

UL 61010-2-201

MSIP (in preparation)

MSIP-REM-WMG-1315450000



Let's connect.

4RO-SSR-255

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

UR20-4RO-SSR-255**System data**

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{OUT} in the respective power segment)**Digital outputs**

Number

Type

Response time, high

Response time, low

Output current per channel, max.

Output current per module, max.

Switching frequency max.

Short-circuit-proof

Non reactive

Switching voltage max.

Module diagnosis

Individual channel diagnosis

General data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

< 15 mA

4

SSR /Triac

max. 20 ms, zero-crossing-detection

max. 20 ms, zero-crossing-detection

1 A*

4 A*

40 Hz

no

yes

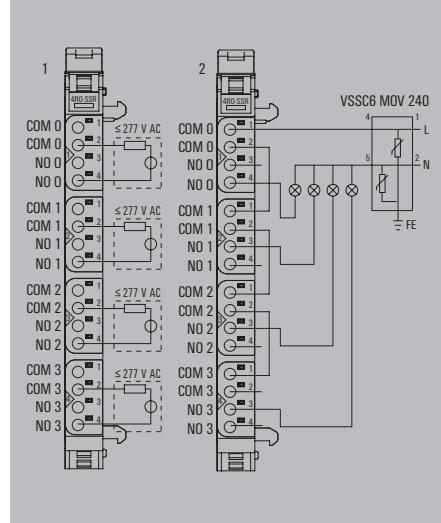
277 V AC *)

yes

no

83 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.**Ordering data****Module variants**

Digital output module, 4 channels, SSR

Type	Qty.	Order No.
UR20-4RO-SSR-255	1	1315540000

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

Electronics 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-1315540000-SP	1	1347120000
UR20-BM-SP	5	1350930000
UR20-PK-1315540000-SP	5	1484000000

*) 1 roll = 1000 label = 1 Qty.

**) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315540000



Let's connect.

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

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{OUT} in the respective power segment)**Digital outputs**

Number

Type

Response time, high

Response time, low

Output current per channel, max.

Output current per module, max.

Switching frequency max.

Short-circuit-proof

Non reactive

Switching voltage max.

Module diagnosis

Individual channel diagnosis

General data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

< 15 mA

4

Change-over contact

20 ms

20 ms

5 A at 60 °C / 6 A at 55 °C*

20 A at 60 °C / 24 A at 55 °C*

5 Hz

no

yes

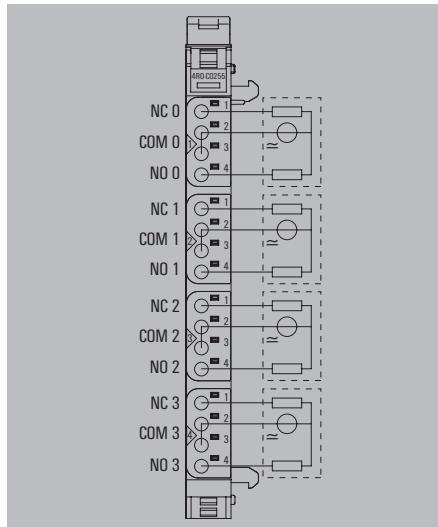
277 V AC/DC *)

yes

no

83 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.**Ordering data****Module variants**

Digital output module, 4 channels, relay

Type	Qty.	Order No.
UR20-4RO-CO-255	1	1315550000

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

Electronics 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-1315550000-SP	1	1347130000
UR20-BM-SP	5	1350930000
UR20-PK-1315550000-SP	5	1346500000

*) 1 roll = 1000 label = 1 Qty.

**) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315550000



Let's connect.

IP20

A

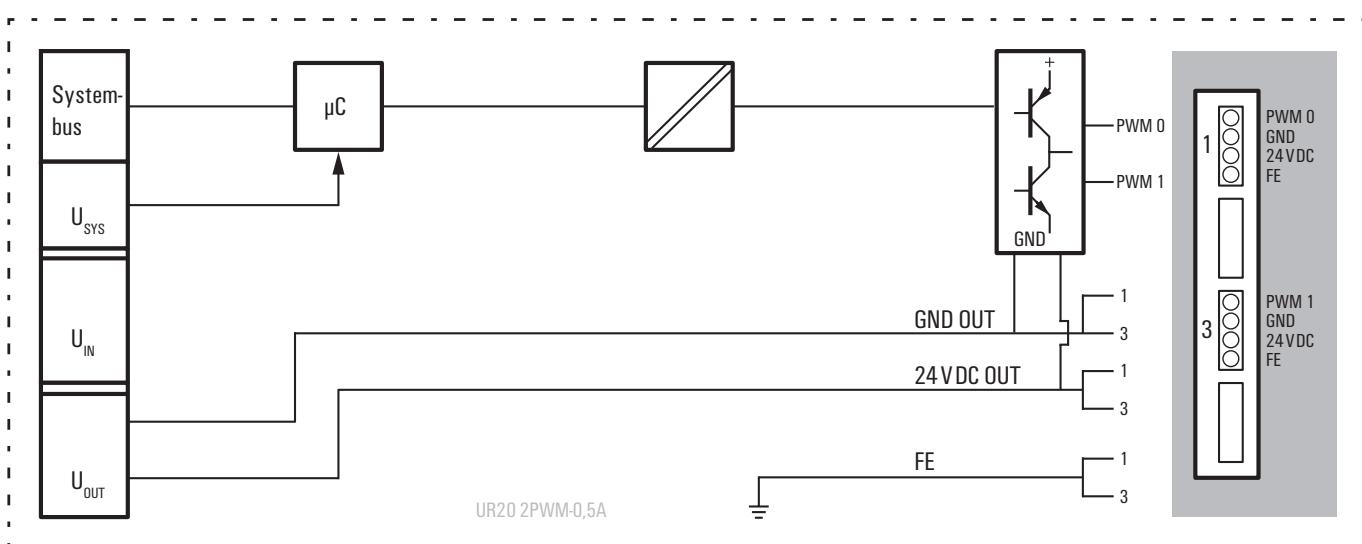
Pulse width modulation modules

Frequency can be adjusted up to 40 kHz;
short-circuit-proof; two PWM outputs

As part of the new u-remote system, Weidmüller provides a specialised solution for controlling small motors with current requirements of 0.5 A to 2 A which can also be used to control valve flaps. Here, not only can the switching frequencies be set up to 40 kHz, the push/pull output levels can also be used for motor activation, for example, to change direction of rotation. As with all modules in the u-remote system, the characteristics are outstanding – from the modular design and interchangeable electronics to the removable and plug-in terminal strip.

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

UR20-2PWM-PN-0.5A block diagram example



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**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{OUT} in the respective power segment)**Digital outputs**

Number

Type

Resolution

Accuracy

Response time, high

Response time, low

Output current per channel, max.

Output current per module, max.

Switching frequency max.

Resistive load (min. 47 Ω)

Inductive load (DC 13)

Lamp load (12 W)

Actuator connection

Short-circuit-proof

Module diagnosis

Individual channel diagnosis

Non reactive

Pulse duty factor

General data

Weight

Dimensions (H/W/D)

Ordering data**Module variants**

Digital output module, PWM, 2 channels, 0.5 A

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

40 mA + Load

2

PWM push/pull output stage

32 Bit

1 Bit

< 100 ns

< 100 ns

0.5 A

1 A

static, 6 Hz to 40 kHz

static, 6 Hz to 40 kHz

static, 6 Hz to 40 kHz

yes

yes

yes

no

yes

0 - 100 % push/pull or push parameterisable

77 g

120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

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

Electronics module

Basic module

Plug-in connector unit

Note

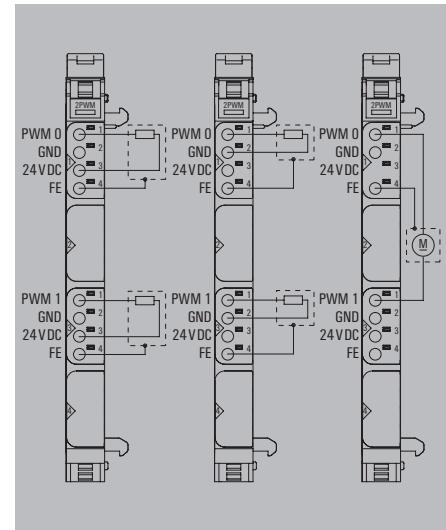
Type	Qty.	Order No.
UR20-2PWM-PN-0.5A	1	1315600000

Type	Qty.	Order No.
KOSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SMA-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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000

UR20-EM-1315600000-SP	1	1347180000
UR20-BM-SP	5	1350930000
UR20-PK-1315600000-SP	5	1484010000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.



Let's connect.

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**Technical data****System data**

Interface
Transmission rate of system bus
48 Mbps

Galvanic isolation
DC 500 V between current paths

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{OUT} in the respective power segment)

Digital outputs

Number
Type
Resolution
Accuracy
Response time, high
Response time, low
Output current per channel, max.
Output current per module, max.
Switching frequency max.

Resistive load (min. 47 Ω)
Inductive load (DC 13)
Lamp load (12 W)

Actuator connection
Short-circuit-proof
Module diagnosis
Individual channel diagnosis
Non reactive
Pulse duty factor

General data

Weight
Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

40 mA + Load

2

DO PWM push/pull output stage

32 Bit

1 Bit

< 100 ns

< 100 ns

2 A

4 A

static, 6 Hz to 40 kHz

static, 6 Hz to 40 kHz

static, 6 Hz to 40 kHz

yes

yes

yes

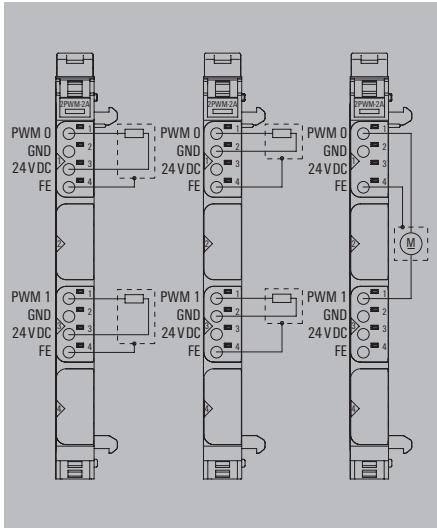
no

yes

0 - 100 % push/pull or push parameterisable

82 g

120 mm (with catch lever) x 128 mm x 11,5 mm x 76 mm

**Ordering data****Module variants**

Digital output module, PWM, 2 channels, 2 A

Type	Qty.	Order No.
UR20-2PWM-PN-2A	1	1315610000

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

Type	Qty.	Order No.
KOSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SMA-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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000

Replacement parts

UR20-EM-1315610000-SP	1	1347190000
UR20-BM-SP	5	1350930000
UR20-PK-1315610000-SP	5	1346550000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315610000



Let's connect.

IP20

A

Analogue input modules

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

Analogue input modules of the u-remote system are available in many variants with different resolutions and wiring solutions.

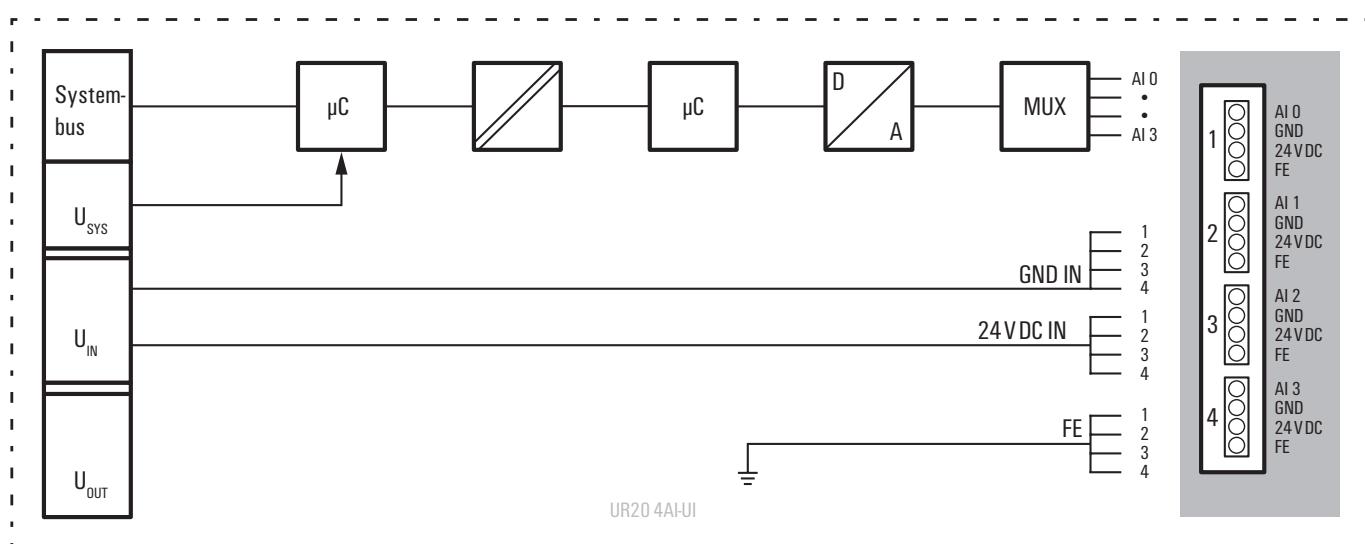
Variants are available in a 12- and 16-bit resolution, which record up to 4 analogue sensors with +/-10 V, +/-5 V, 0...10 V, 0...5 V, 2...10 V, 1...5 V, 0...20 mA or 4...20 mA with maximum accuracy. Each plug-in connector has options for connecting sensors with 2-wire, 3-wire and 3-wire+FE technology.

The parameters for the measurement range can be individually set for each channel. A separate status LED is also assigned to each channel.

A special variant for Weidmüller interface units enables current measurements with a 16-bit resolution at maximum accuracy for 8 sensors at a time (0...20 mA or 4...20 mA).

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

UR20-4AI-UI-16 block diagram example



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

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{IN} in the respective power segment)**Analogue inputs**

Number

Input

Resolution

Accuracy

Sensor supply

Sensor connection

Conversion time

Internal resistance U

Internal resistance I

Reverse polarity protection

Module diagnosis

Individual channel diagnosis

Short-circuit-proof

General data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

25 mA + sensor feed

4

1. Voltage (0...5 V, ±5 V, 0...10 V, ±10 V, 1...5 V, 2...10 V)

2. Current (0...20 mA, 4...20 mA)

12 Bit

0,25 % FSR

yes

2-wire, 3-wire, 3-wire+FE

1 ms

100 kΩ

41.2 Ω

yes

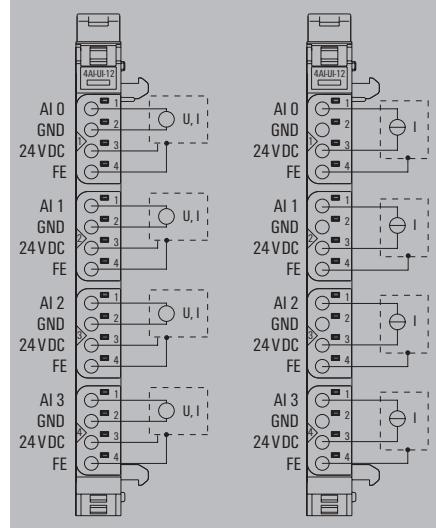
yes

no

yes

87 g

120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

**Ordering data****Module variants**

Analogue input module, 4 channels, 12 bits

Type	Qty.	Order No.
UR20-4AI-UI-12	1	1394390000

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

Electronics 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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000
UR20-EM-1394390000-SP	1	1434230000
UR20-BM-SP	5	1350930000
UR20-PK-1394390000-SP	5	1484030000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1394390000



Let's connect.

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
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

Analogue inputs

Number
Input

Resolution
Accuracy
Sensor supply
Sensor connection
Conversion time
Internal resistance U
Internal resistance I
Reverse polarity protection
Module diagnosis
Individual channel diagnosis
Short-circuit-proof

General data

Weight
Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

25 mA + sensor feed

4

1. Voltage (0...5 V, ±5 V, 0...10 V, ±10 V, 1...5 V, 2...10 V)
2. Current (0...20 mA, 4...20 mA)

16 Bit

0.1 % FSR

yes

2-wire, 3-wire, 3-wire+FE

1 ms

100 kΩ

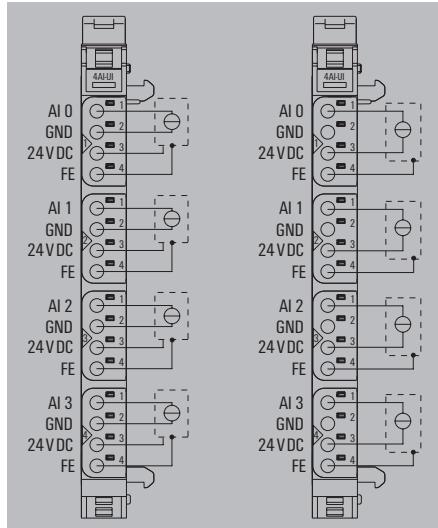
41.2 Ω

yes

yes

no

yes

**Ordering data****Module variants**

Analogue input module, 4 channels, 16 bits

Type	Qty.	Order No.
UR20-4AI-UI-16	1	1315620000

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

Electronics 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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000
UR20-EM-1315620000-SP	1	1347200000
UR20-BM-SP	5	1350930000
UR20-PK-1315620000-SP	5	1484020000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315620000



Let's connect.

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

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{IN} in the respective power segment)**Analogue inputs**

Number

Input

Resolution

Accuracy

Sensor supply

Sensor connection

Conversion time

Internal resistance U

Internal resistance I

Reverse polarity protection

Module diagnosis

Individual channel diagnosis

Short-circuit-proof

General data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

25 mA + sensor feed

4

1. Voltage (0...5 V, ±5 V, 0...10 V, ±10 V, 1...5 V, 2...10 V)

2. Current (0...20 mA, 4...20 mA)

16 Bit

0.1 % FSR

yes

2-wire, 3-wire, 3-wire+FE

1 ms

100 kΩ

approx. 45 Ω

yes

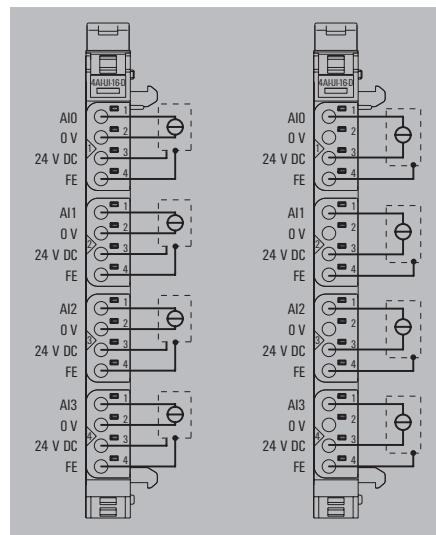
yes

yes

yes

89 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

**Ordering data****Module variants**

Analogue input module, 4 channels, 16 bits, diagnosis functions

Type	Qty.	Order No.
UR20-4AI-UI-16-DIAG	1	1315690000

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

Electronics 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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000
UR20-EM-1315690000-SP	1	1347280000
UR20-BM-SP	5	1350930000
UR20-PK-1315690000-SP	5	1518870000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315690000



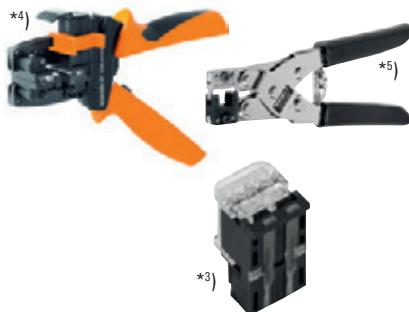
Let's connect.

Analogue input modules

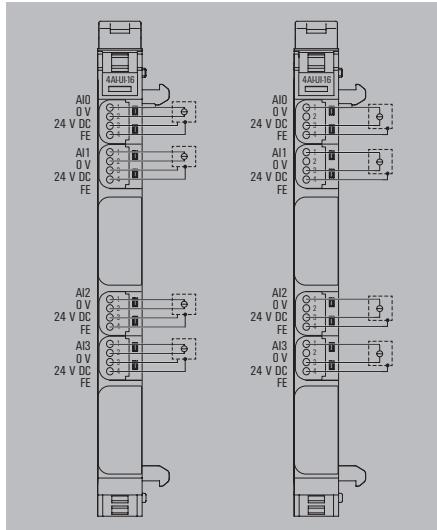
4AI-UI-16-HD

- 4 plugs with 4 connections per module
- 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
Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

Analogue inputs

Number
Input

Resolution
Accuracy
Sensor supply
Sensor connection
Conversion time
Internal resistance U
Internal resistance I
Reverse polarity protection
Module diagnosis
Individual channel diagnosis
Short-circuit-proof

General data

Weight
Dimensions (H/W/D)

Ordering data

Module variants

Analogue input module, 4 channels, 16 bits, HD plug

Type	Qty.	Order No.
UR20-4AI-UI-16-HD	1	1506920000

Accessories

Coding elements

Termination kit

Swivel marker

*³) HD-Plug

*⁴) Stripping tool

*⁵) Pressing tool

Module marker for custom printing

Module marker for neutral

Thermotransfer version (Material: Polyester)

Thermotransfer version (Material: Polyester)

Paper version for Laserprinter

Replacement parts

Electronics 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
UR20-PGO.35	8	1469340000
multi-stripax 6-16	1	9202210000
PWZ-UR20-HD	1	1525820000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE * ¹)	1	1429910000
THM UR20 WS * ¹)	1	1429420000
ESO UR20 DIN A4 WS * ²)	10	1429430000
UR20-EM-1506920000-SP	1	1515420000
UR20-BM-SP	5	1350930000
UR20-PK-1506920000-SP	5	1518830000

*¹) 1 roll = 1000 label = 1 Qty.

*²) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1506920000



Let's connect.

4AI-UI-16-DIAG-HD

- 4 plugs with 4 connections per module
- 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
Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

Analogue inputs

Number
Input

Resolution
Accuracy
Sensor supply
Sensor connection
Conversion time
Internal resistance U
Internal resistance I
Reverse polarity protection
Module diagnosis
Individual channel diagnosis
Short-circuit-proof

General data

Weight
Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

25 mA + sensor feed

4

1. Voltage (0...5 V, ±5 V, 0...10 V, ±10 V, 1...5 V, 2...10 V)
2. Current (0...20 mA, 4...20 mA)

16 Bit

0.1 % FSR

yes

2-wire, 3-wire, 3-wire+FE

1 ms

100 kΩ

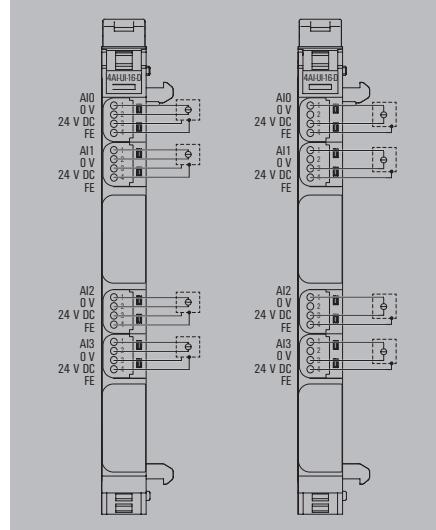
approx. 45 Ω

yes

yes

yes

yes

**Ordering data****Module variants**

Analogue input module, 4 channels, 16 bits, diagnosis functions,
HD plug

Type	Qty.	Order No.
UR20-4AI-UI-16-DIAG-HD	1	1506910000

Accessories

Coding elements

Termination kit

Swivel marker

*) HD-Plug

*) Stripping tool

*) Pressing tool

Module marker for custom printing

Module marker for neutral

Thermotransfer version (Material: Polyester)

Thermotransfer version (Material: Polyester)

Paper version for Laserprinter

Replacement parts

Electronics 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
UR20-PGO.35	8	1469340000
multi-stripax 6-16	1	9202210000
PWZ-UR20-HD	1	1525820000
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-1506910000-SP	1	1515430000
UR20-BM-SP	5	1350930000
UR20-PK-1506910000-SP	5	1518820000

*) 1 roll = 1000 label = 1 Qty.

*) 1 sheet = 60 label = 1 Qty.

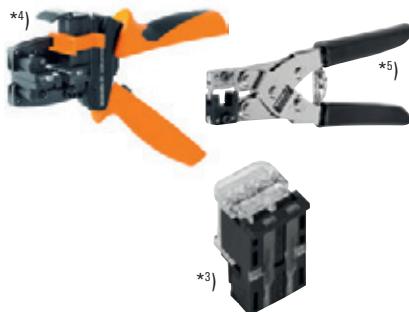
Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1506910000



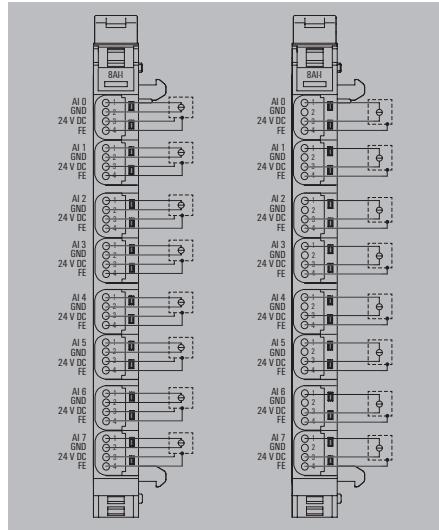
Let's connect.

8AI-I-16-HD

- 8 plugs with 4 connections per module
- 8 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire+FE connection
- Accuracy 0.1 % FSR
- HD plug

UR20-8AI-I-16-HD

Note: Please order connector separately

**Technical data****System data**

Interface
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

Analogue inputs

Number	8
Input	Current (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	approx. 45 Ω
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
Short-circuit-proof	yes

General data

Weight
Dimensions (H/W/D)

Ordering data**Module variants**

Analogue output module, 8 channels, 16 Bits, HD-plug

Type	Qty.	Order No.
UR20-8AI-I-16-HD	1	1315650000

Accessories

Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
*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
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)	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS *1)	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS *2)	10	1429430000

Replacement parts

Electronics module	UR20-EM-1315650000-S	1	1347240000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315650000-SP	5	1559740000

Note

*1) 1 roll = 1000 label = 1 Qty.
*2) 1 sheet = 60 label = 1 Qty.

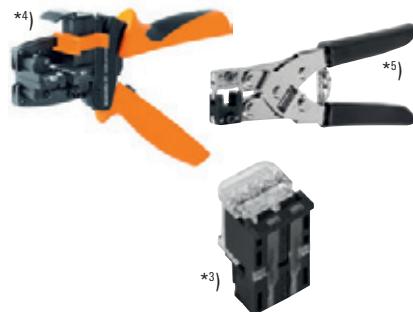
Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315650000



Let's connect.

8AI-I-16-DIAG-HD

- 8 plugs with 4 connections per module
- Advanced diagnosis functions
- 8 analogue inputs
- Parameterisable inputs (voltage, 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
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

Analogue inputs

Number	8
Input	Current (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	approx. 45 Ω
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	yes
Short-circuit-proof	yes

General data

Weight
Dimensions (H/W/D)

Ordering data**Module variants**

Analogue output module, 4 channels, 16 Bits, diagnosis functions,
HD-plug

u-remote system bus	48 Mbps
DC 500 V between current paths	
24 V DC +20 % / -15 % via the system bus	8 mA
20 mA + sensor feed	
8	
Current (0...20 mA, 4...20 mA)	
16 Bit	
0.1 % FSR	
yes	
2-wire, 3-wire, 3-wire+FE	
1 ms	
approx. 45 Ω	
yes	
yes	
yes	
yes	
73 g	
120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm	

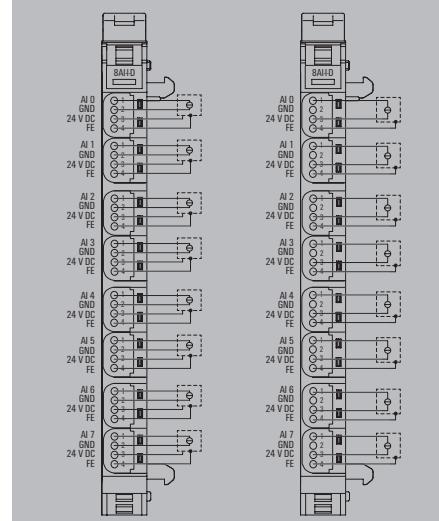
Accessories

Coding elements	Type	Qty.	Order No.
UR20-EBK-ACC	UR20-EM-1315720000-SP	1	1347320000
UR20-SM-ACC	UR20-BM-SP	5	1350930000
UR20-PG0.35	UR20-PK-1315720000-SP	5	1559750000
multi-stripax 6-16			
PWZ-UR20-HD			
DEK 5/8-11.5 MC SDR			
DEK 5/8-11.5 MC NE WS			
THM UR20 GE *1)			
THM UR20 WS *1)			
ESO UR20 DIN A4 WS *2)			

Replacement parts

Electronics module	Type	Qty.	Order No.
Basic module	UR20-EM-1315720000-SP	1	1347320000
Plug-in connector unit	UR20-BM-SP	5	1350930000
Note	UR20-PK-1315720000-SP	5	1559750000

*1) 1 roll = 1000 label = 1 Qty.
*2) 1 sheet = 60 label = 1 Qty.



Let's connect.

8AI-I-PLC-INT

- 8 analogue inputs
- 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)

UR20-8AI-I-PLC-INT**Technical data****System data**

Interface	u-remote system bus
Transmission rate of system bus	48 Mbps
Galvanic isolation	DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / -15 % via the system bus
Current consumption (I_{IN} in power segment of field bus coupler), typ.	8 mA
Current consumption (I_{IN} external)	20 mA

Analogue inputs

Number	8
Input	Current input
Resolution	16 Bit
Accuracy	0.1 % FSR
Sensor supply	external
Sensor connection	PLC interface
Conversion time	1 ms
Internal resistance I	approx. 50 Ω
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
Short-circuit-proof	yes

General data

Weight	73 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data**Module variants**

Analogue input module, 8 channels, PLC interface

Type	Qty.	Order No.
UR20-8AI-I-PLC-INT	1	1315670000

Accessories

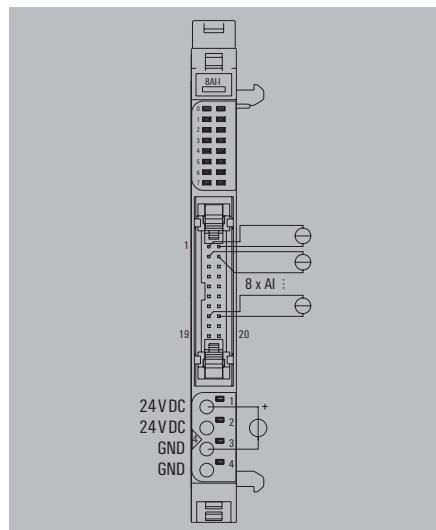
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom 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⁾	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS * ²⁾	10	1429430000

Replacement parts

Electronics module	UR20-EM-1315670000-SP	1	1347250000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315670000-SP	5	1483950000
PLC interface element	RS 16IO 1V H S	1	9445700000
Pre-assembled cable, 1 m	PAC-UNIV-HE20-LCH-1M	1	7789306010

Note

*¹⁾ 1 roll = 1000 label = 1 Qty.
 *²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315670000



Let's connect.

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
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

Analogue inputs

Number	4
Input	1. Voltage (0 ... 5 V, ±5 V, 0 ... 10 V, ±10 V, 1 ... 5 V, 2 ... 10 V) 2. Current (0 ... 20 mA, 4 ... 20 mA)
Resolution	16 Bit
Accuracy	0.1% FSR at 25 °C 50 ppm /K max. temperature coefficient
Sensor supply	yes (not galvanically isolated)
Sensor supply (Current)	max. 500 mA
Sensor connection	2-wire, 3-wire and 4-wire
Input Type	differential input
Common-mode ratio	± 30 V
Conversion time	1 ms
Internal resistance I	approx. 18 Ω (current), 100 k (voltage)
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	yes
Short-circuit-proof	yes

General data

Weight	91 g
Dimensions (H/W/D)	120 mm (with catch lever) x 128 mm x 11.5 mm x 76 mm

Ordering data**Module variants**

Analogue output module, 4 channels, 16 Bits, diagnosis functions,
Differential inputs

Type	Qty.	Order No.
UR20-4AI-UI-DIF-16-DIAG	1	1993880000

Accessories

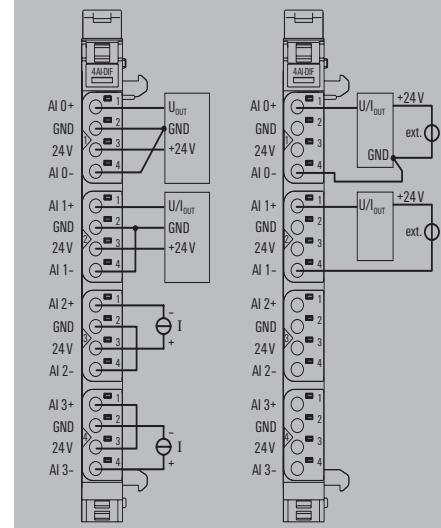
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Terminal markers for custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Terminal markers for Pusher Neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	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)}	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS ^{*1)}	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS ^{*2)}	10	1429430000

Replacement parts

Electronics 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)} 1 roll = 1000 label = 1 Qty.
^{*2)} 1 sheet = 60 label = 1 Qty.



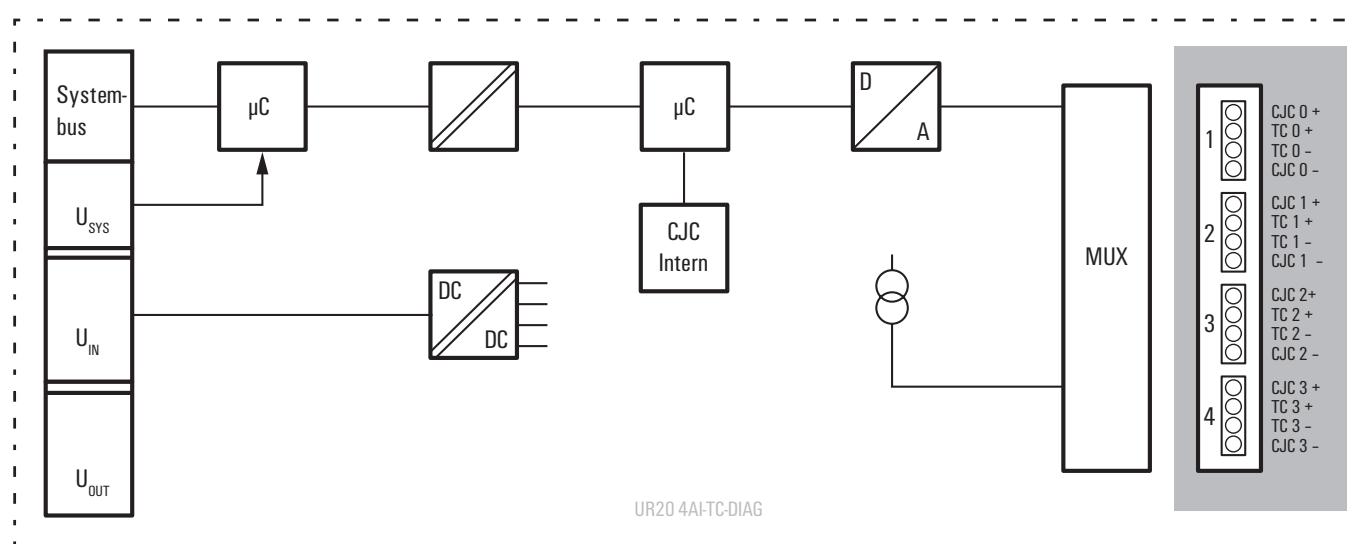
Temperature modules and potentiometer input module

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

The recording of resistance temperature and thermocoupler sensors is indispensable for many applications. The 4-channel input modules from Weidmüller are designed for all common thermal elements and resistance temperature sensors. With an accuracy of 0.2 % of the measurement range end value and a resolution of 16 bits, cable breaks and instances of the limit value being exceeded or falling below are detected by means of individual channel diagnosis. Additional features such as an automatic 50-Hz to 60-Hz suppression or external as well as internal cold-junction compensation, as are available with the TC module, round off the scope of function.

The potentiometer input module allows direct connection of potentiometers. By integrated reference voltage (+ 10V), a measurement of 300 Ω to 50 k Ω is possible. By a very fast conversion time of up to 500 μ s the module is suited for demanding positioning tasks.

UR20-4AI-TC-DIAG block diagram example



4AI-TC-DIAG

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

UR20-4AI-TC-DIAG**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{IN} in the respective power segment)**Analogue inputs**

Number

Sensor type

Resolution

Accuracy

Sensor connection

Cold-junction compensation

Temperature coefficient

Temperature range

Conversion time

Internal resistance

Module diagnosis

Individual channel diagnosis

Reverse polarity protection

General data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

20 mA

4

J, K, T, B, N, E, R, S, L, U, C, mV

16 Bit

0,1 % FSR + 10 µV

2-wire

internal and external (int. accuracy ≤ 3 K)

50 ppm/K

-200...+2315 °C

36...240 ms, adjustable

> 1 MO

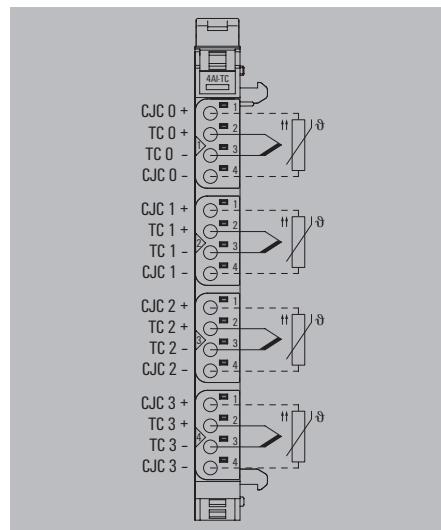
yes

yes

yes

86 g

120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

**Ordering data****Module variants**

Analogue input module, 4 channels, thermocouple

Type	Qty.	Order No.
UR20-4AI-TC-DIAG	1	1315710000

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

Electronics 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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315710000



Let's connect.

Temperature modules

4AI-RTD-DIAG

- 16-bit resolution
- Individual channel diagnosis
- Automatic 50 and 60 Hz suppression
- For 2-, 3- and 4-wire RTDs
- High accuracy
- For virtually all common sensors
- Temperature measurement via resistor

UR20-4AI-RTD-DIAG



Technical data

System data

Interface
Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

Analogue inputs

Number
Sensor type

Resolution
Sensor current

Accuracy
Sensor connection
Temperature coefficient
Temperature range
Conversion time
Internal resistance
Reverse polarity protection
Module diagnosis
Individual channel diagnosis

General data

Weight
Dimensions (H/W/D)

Ordering data

Module variants

Analogue input module, 4 channels, RTD

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

20 mA

4

Pt100, Pt200, Pt500, Pt1000, Ni100, Ni120, Ni200, Ni500, Ni1000, Cu10, resistors with 40 Ω, 80 Ω, 150 Ω, 300 Ω, 500 Ω, 1 kΩ, 2 kΩ, 4 kΩ

16 Bit

depending on the input type 0,75 mA (Pt100, Ni100, Ni120, Cu10, 40 Ω, 80 Ω, 150 Ω, 300 Ω) or 0,25 mA (Pt200, Pt500, Pt1000, Ni200, Ni500, Ni1000, 500 Ω, 1 kΩ, 2 kΩ, 4 kΩ)

0,2 % FSR, 0,3 % FSR for Ni sensors, 0,6 % FSR for Cu10

2-wire, 3-wire, 4-wire

50 ppm/K

-200...+850 °C

36...240 ms adjustable

> 1 MΩ

yes

yes

yes

91 g

120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

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

Electronics module
Basic module
Plug-in connector unit

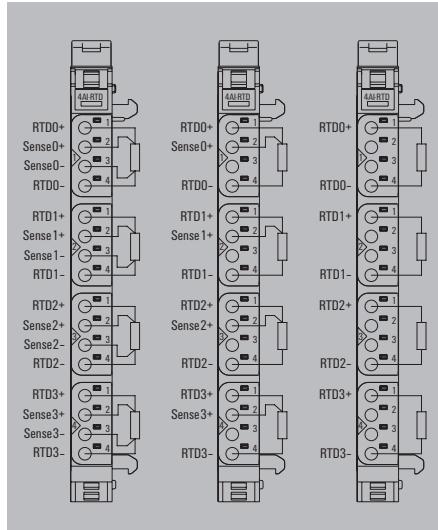
Note

Type	Qty.	Order No.
UR20-4AI-RTD-DIAG	1	1315700000
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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000

UR20-EM-1315700000-SP	1	1347290000
UR20-BM-SP	5	1350930000
UR20-PK-1315700000-SP	5	1484040000

*¹⁾ 1 roll = 1000 label = 1 Qty.

*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315700000



Let's connect.

4AI-R-HS-16-DIAG

- 4 potentiometer inputs
- Measuring range from $300\ \Omega$... $50\ k\Omega$
- $500\ \mu s$ conversion time
- 16 Bit resolution
- Accuracy $<\pm 0.25\%$ FSR
- individual calibration and scaling

UR20-4AI-R-HS-16-DIAG**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{IN} in the respective power segment)**Analogue inputs**

Number

Sensor type

Input value

Measuring range

Conversion time

Resolution

Accuracy

Temperature coefficient

Input resistor

Supply voltage

Current of voltage supply output

Short circuit detection

Short-circuit-proof

Module diagnosis

Individual channel diagnosis

General data

Weight

Dimensions (H/W/D)

Ordering data**Module variants**

Analog input module for potentiometer, 4 channels, 16 bits

u-remote system bus

48 Mbps

500 V DC between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

26 mA

4

3-wire, 3-wire+FE

Ratiometric potentiometer evaluation with own supply

300 Ω ... 50 k Ω typ. 500 μs (typ. 625 μs at 50 Hz / typ. 521 μs at 60 Hz interference suppression)

16 Bit

< $\pm 0.25\%$ FSR

50 ppm/K

typ. 500 k Ω for sliding-contact connection10 V DC $\pm 10\%$

max. 0.05 A per channel, total 0.2 A

yes

yes

yes

line break detected, sensor supply and short-circuit

87 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

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

Electronics module

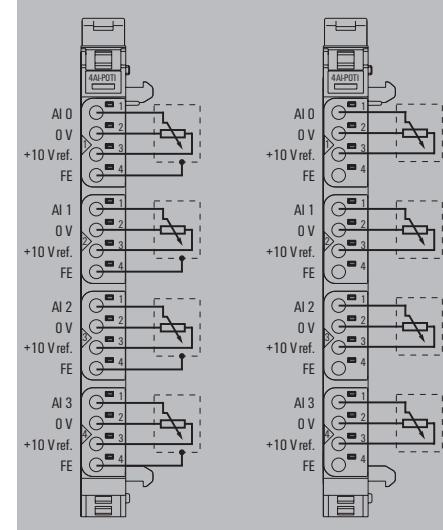
Basic module

Plug-in connector unit

Note

Type	Qty.	Order No.
UR20-4AI-R-HS-16-DIAG	1	2001670000

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-2001670000-SP	1	2068640000
UR20-BM-SP	5	1350930000
UR20-PK-2001670000-SP	5	2068610000

*¹⁾ 1 roll = 1000 label = 1 Qty.*²⁾ 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX (in preparation)	EN 60079
UL (in preparation)	UL 61010-2-201
MSIP (in preparation)	MSIP-REM-WMG-2001670000



Let's connect.

Power measurement module

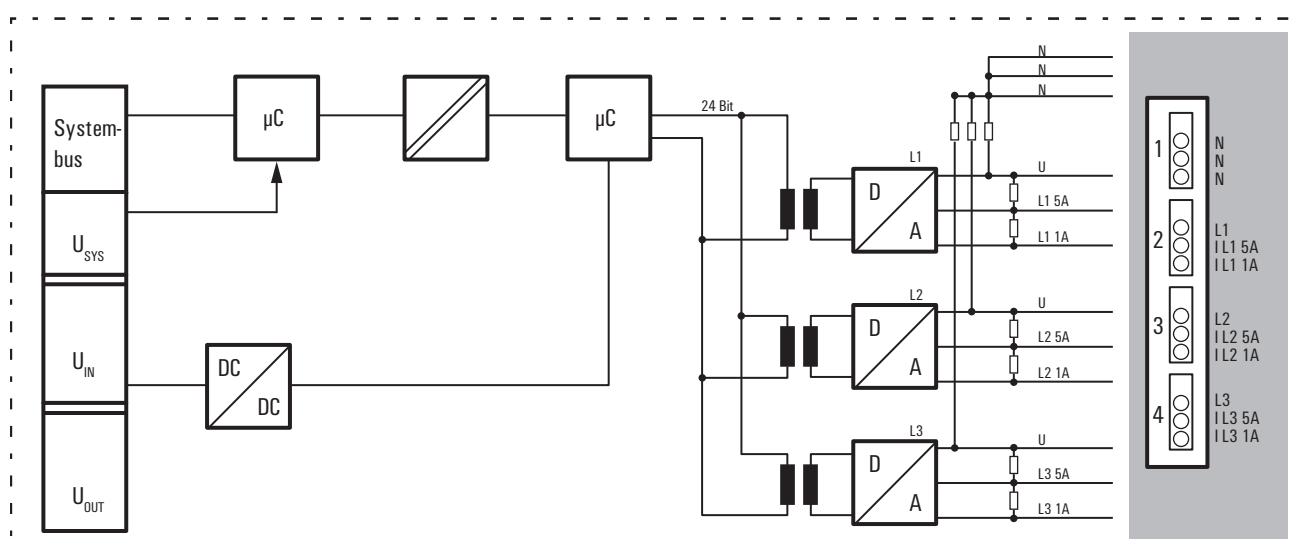
Power measurement via 1- or 3-phase, rated voltage to 300 V_{eff}

The power measurement module is used for recording and processing of currents and voltages on one or three-phase loads up to a rated voltage of 300 V_{eff} AC (phase to neutral conductor). Reactive, apparent harmonic and active power, energy consumption, phase angle, and many other electrical parameters are measured or calculated by the module.

The transmitted data via the process data of the different fieldbuses can be selected via parameters.

The Power measurement module can be easily integrated into existing automation solutions with u-remote. Using split-core current transformers it is not even necessary to intervene in the existing installation. Currents from 1 A or up to 5 A can be measured directly, higher currents can be measured with split-core or plug-in current transformers from Weidmüller.

UR20-3EM-230V-AC block diagram example



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
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

Analogue inputs

Number

Rated voltage
Resolution per channel
Sample rate current measurement
Frequency of supply network
Analysis of harmonics
Nominal input current
Insulation
Nominal voltage spike
Category for voltage measurements
Measuring procedure
Measuring accuracy

Transformer ratio value
Input impedance voltage
Measuring resistor (shunt)

General data

Weight
Dimensions (H/W/D)

Ordering data**Module variants**

Power measurement module, 3 channels

u-remote system bus

48 Mbps

500 V DC between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

40 mA

3 neutral conductor connections,
3 phase conductor connections,
3 current measurement connections for 5 A,
3 current measurement connections for 1 A

300 V_{eff} (L-N)

16 Bit (intern 24 Bit)

3300 Samples/s

45 ... 65 Hz

31 (Blackmann-Harris Window)

0 ... 1 A / 0 ... 5 A AC

1,5 kV_{eff} (input/system)

4 kV

CAT III (EN 50178) / CAT II (IEC 61010 part 1)

High Resolution Delta Sigma (Current measurement in the phase conductor)

0.5 % related to full scale (U/I)

1 % of the calculated values

1 ... 1000

2.4 MΩ per channel

4 mΩ (at 5 A), 20 mΩ (at 1 A)

87 g

120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

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

Electronics module
Basic module
Plug-in connector unit

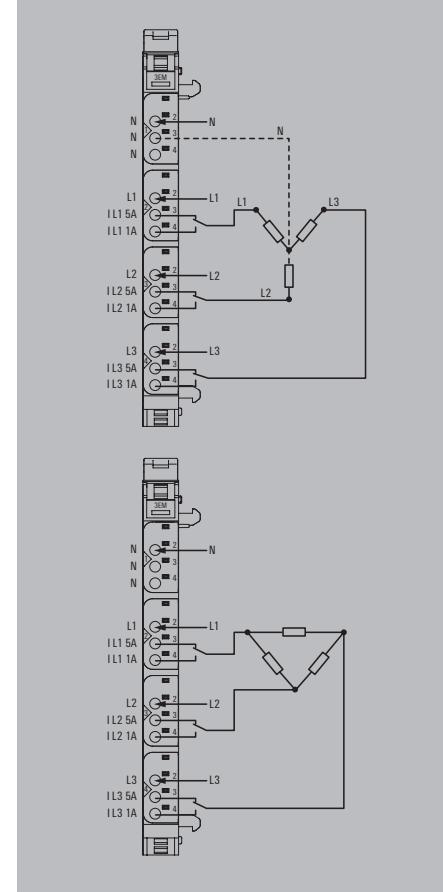
Note

Type	Qty.	Order No.
UR20-3EM-230V-AC	1	2007420000

UR20-EM-2007420000-SP	1	1562270000
UR20-BM-SP	5	1350930000
UR20-PK-2007420000-SP	5	2068630000

*¹⁾ 1 roll = 1000 label = 1 Qty.

*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX (in preparation)	EN 60079
UL (in preparation)	UL 61010-2-201
MSIP (in preparation)	MSIP-REM-WMG-2007420000



Let's connect.

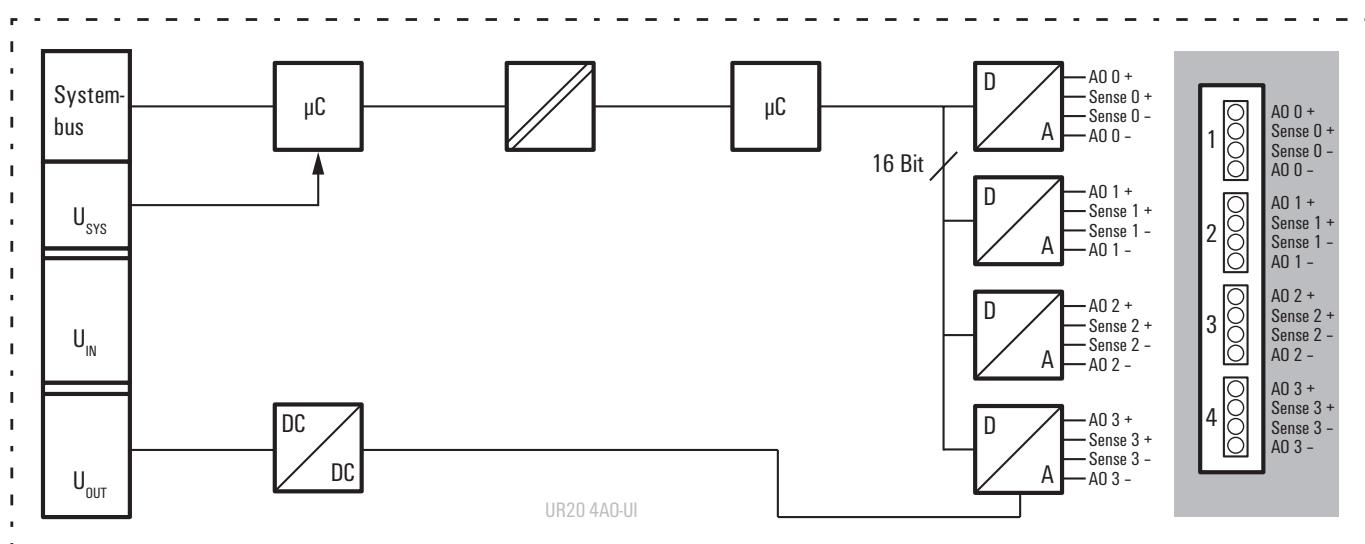
Analogue output module

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

The analogue output module controls up to 4 analogue 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 with an accuracy of 0.05 % of the measurement range end value. An actuator with 2- or 4-wire technology can be connected to each plug-in connector. The outputs are defined channel by channel using parameterisation. A separate status LED is assigned to each channel.

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

Block diagram UR20-4AO-UI-16



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
- Non reactiv
- Short-circuit-proof

UR20-4AO-UI-16**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{OUT} in the respective power segment)**Analogue outputs**

Number

Output

Response time

Resolution

Accuracy

Load resistance, voltage output

Load resistance, current output

Actuator connection

Temperature coefficient

Max. error between T min. and T max.

Monotonicity

Crosstalk between the channels

Repeat accuracy

Output waviness

Module diagnosis

Replacement values

General data

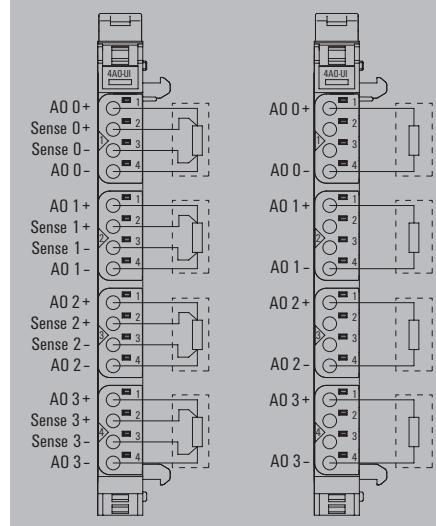
Weight

Dimensions (H/W/D)

Ordering data**Module variants**

Analogue output module, 4 channels, 16 Bit

u-remote system bus
48 Mbps
DC 500 V between current paths
24 V DC +20 % / -15 % via the system bus
8 mA
85 mA
4
1. Voltage (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±5 V) 2. Current (0...20 mA or 4...20 mA)
1 ms for 4 channels
16 Bit
±0.1 % FSR max., 0.05 % FSR typ.
> 1 kΩ (at > 50 °C ambient temperature max. sum of sensor current = 25 mA)
< 600 Ω
2-wire (current and voltage; automatic detection), 4-wire (voltage)
20 ppm Voltage / 31 ppm current measurement / °K
220 ppm FSR
yes
±0,001 % FSR
< 1 mV effectively
max. 0.001 %
yes
yes
83 g
120 mm (with catch lever128 mm) x 11,5 mm x 76 mm

**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

Electronics module

Basic module

Plug-in connector unit

Note

Type	Qty.	Order No.
UR20-4AO-UI-16	1	1315680000
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)}	1	1429910000
THM UR20 WS ^{*1)}	1	1429420000
ESO UR20 DIN A4 WS ^{*2)}	10	1429430000
UR20-EM-1315680000-SP	1	1347270000
UR20-BM-SP	5	1350930000
UR20-PK-1315680000-SP	5	1484070000

^{*1)} 1 roll = 1000 label = 1 Qty.^{*2)} 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315680000



Let's connect.

4AO-UI-16-DIAG

- Advanced diagnosis functions
- 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
- Short-circuit-proof

UR20-4AO-UI-16-DIAG**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption (I_{IN} in power segment of field bus coupler), typ.Current consumption (I_{OUT} in the respective power segment)**Analogue outputs**

Number

Output

Response time

Resolution

Accuracy

Load resistance, voltage output

Load resistance, current output

Actuator connection

Temperature coefficient

Max. error between T min. and T max.

Monotonicity

Crosstalk between the channels

Repeat accuracy

Output waviness

Module diagnosis

Individual channel diagnosis

Replacement values

General data

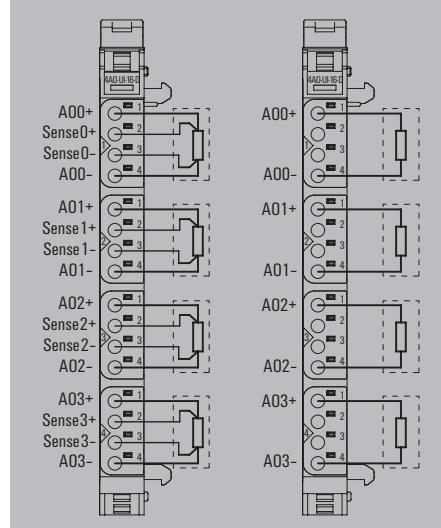
Weight

Dimensions (H/W/D)

Ordering data**Module variants**

Analogue output module, 4 channels, 16 Bits, diagnosis functions

u-remote system bus
48 Mbps
DC 500 V between current paths
24 V DC +20 % / -15 % via the system bus
8 mA
85 mA
4
1. Voltage (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±5 V) 2. Current (0...20 mA or 4...20 mA)
1 ms for 4 channels
16 Bit
±0.1 % FSR max., 0.05 % FSR typ.
> 1 kΩ (at > 50 °C ambient temperature max. sum of sensor current = 25 mA)
< 600 Ω
2-wire (current and voltage; automatic detection), 4-wire (voltage)
20 ppm Voltage / 31 ppm current measurement / °K
220 ppm FSR
yes
±0,001 % FSR
< 1 mV effectively
max. 0.001 %
yes
yes
yes
98 g
120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

**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

Electronics module

Basic module

Plug-in connector unit

Note

Type	Qty.	Order No.
UR20-4AO-UI-16-DIAG	1	1315730000
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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000
UR20-EM-1315730000-SP	1	1347330000
UR20-BM-SP	5	1350930000
UR20-PK-1315730000-SP	5	1518880000

*1) 1 roll = 1000 label = 1 Qty.
*2) 1 sheet = 60 label = 1 Qty.

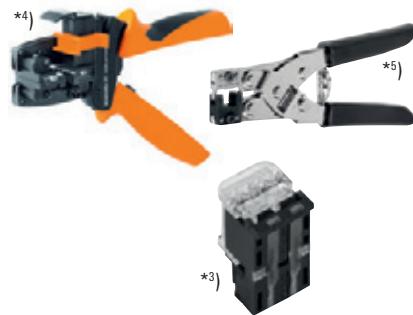
Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315730000



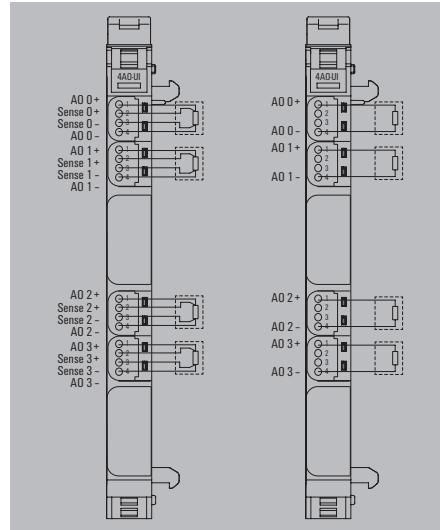
Let's connect.

4AO-UI-16-HD

- 4 analogue outputs
- 4 plugs with 4 connections per module
- 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 reactiv
- Short-circuit-proof

UR20-4AO-UI-16-HD

Note: Please order connector separately

**Technical data****System data**

Interface
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{OUT} in the respective power segment)

Analogue outputs

Number	4
Output	1. Voltage (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±5 V) 2. Current (0...20 mA or 4...20 mA)
Response time	1 ms for 4 channels
Resolution	16 Bit
Accuracy	±0,1 % FSR max., 0,05 % FSR typ.
Load resistance, voltage output	> 1 kΩ (at > 50 °C ambient temperature max. sum of sensor current = 25 mA)
Load resistance, current output	< 600 Ω
Actuator connection	2-wire (current and voltage; automatic detection), 4-wire (voltage)
Temperature coefficient	20 ppm Voltage / 31 ppm current measurement / °K
Max. error between T min. and T max.	220 ppm FSR
Monotonicity	yes
Crosstalk between the channels	±0.001 % FSR
Repeat accuracy	< 1 mV effectively
Output waviness	max. 0.001 %
Module diagnosis	yes
Individual channel diagnosis	no
Replacement values	yes

General data

Weight	98 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11.5 mm x 76 mm

Ordering data**Module variants**

Analogue output module, 4 channels, 16 Bits, HD-plug

Type	Qty.	Order No.
UR20-4AO-UI-16-HD	1	1510690000

Accessories

Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
* ³⁾ HD-Plug	UR20-PG0.35	8	1469340000
* ⁴⁾ Stripping tool	multi-stripx 6-16	1	9202210000
* ⁵⁾ Pressing tool	PWZ-UR20-HD	1	1525820000
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⁾	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS * ²⁾	10	1429430000

Replacement parts

Electronics 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

* ¹⁾ 1 roll = 1000 label = 1 Qty.	Product standard	IEC 61131-2
* ²⁾ 1 sheet = 60 label = 1 Qty.	EMC	EN 61000
	ATEX	EN 60079
	UL	UL 508
	MSIP	MSIP-REM-WMG-1510690000



Let's connect.

Analogue output module

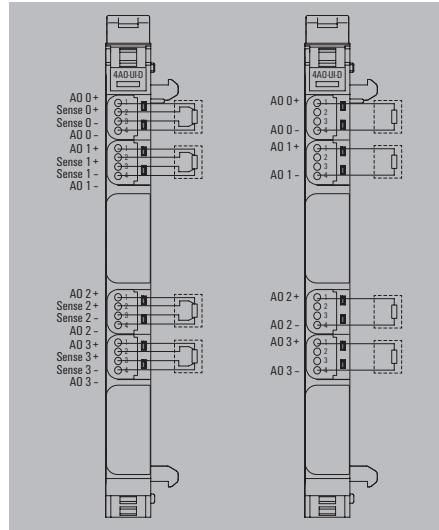
4AO-UI-16-DIAG-HD

- 4 analogue outputs
- Advanced diagnosis functions
- 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
- Short-circuit-proof

UR20-4AO-UI-16-DIAG-HD



Note: Please order connector separately



Technical data

System data

Interface
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{OUT} in the respective power segment)

Analogue outputs

Number	4
Output	1. Voltage (0...5 V, 0...10 V, 1...5 V, 2...10 V, ±5 V) 2. Current (0...20 mA or 4...20 mA)
Response time	1 ms for 4 channels
Resolution	16 Bit
Accuracy	±0.1 % FSR max., 0.05 % FSR typ.
Load resistance, voltage output	> 1 kΩ (at > 50 °C ambient temperature max. sum of sensor current = 25 mA)
Load resistance, current output	< 600 Ω
Actuator connection	2-wire (current and voltage; automatic detection), 4-wire (voltage)

Temperature coefficient
Max. error between T min. and T max.

Monotonicity
Crosstalk between the channels

Repeat accuracy
Output waviness

Module diagnosis
Individual channel diagnosis

Replacement values
General data

Weight	98 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11.5 mm x 76 mm

Ordering data

Module variants

Analogue output module, 4 channels, 16 Bits, diagnosis functions, HD-plug

Type	Qty.	Order No.
UR20-4AO-UI-16-DIAG-HD	1	1506930000

Accessories

Coding elements

Termination kit

Swivel marker

*3) HD-Plug

*4) Stripping tool

*5) Pressing tool

Module marker for custom printing

Module marker for neutral

Thermotransfer version (Material: Polyester)

Thermotransfer version (Material: Polyester)

Paper version for Laserprinter

Replacement parts

Electronics 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
UR20-PG0.35	8	1469340000
multi-stripax 6-16	1	9202210000
PWZ-UR20-HD	1	1525820000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE *1)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000
UR20-EM-1506930000-S	1	1515480000
UR20-BM-SP	5	1350930000
UR20-PK-1506930000-SP	5	1531810000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1506930000



Let's connect.

IP20

A

Digital counter- and communication modules

100/ 500 kHz; 32-Bit Counter data width;

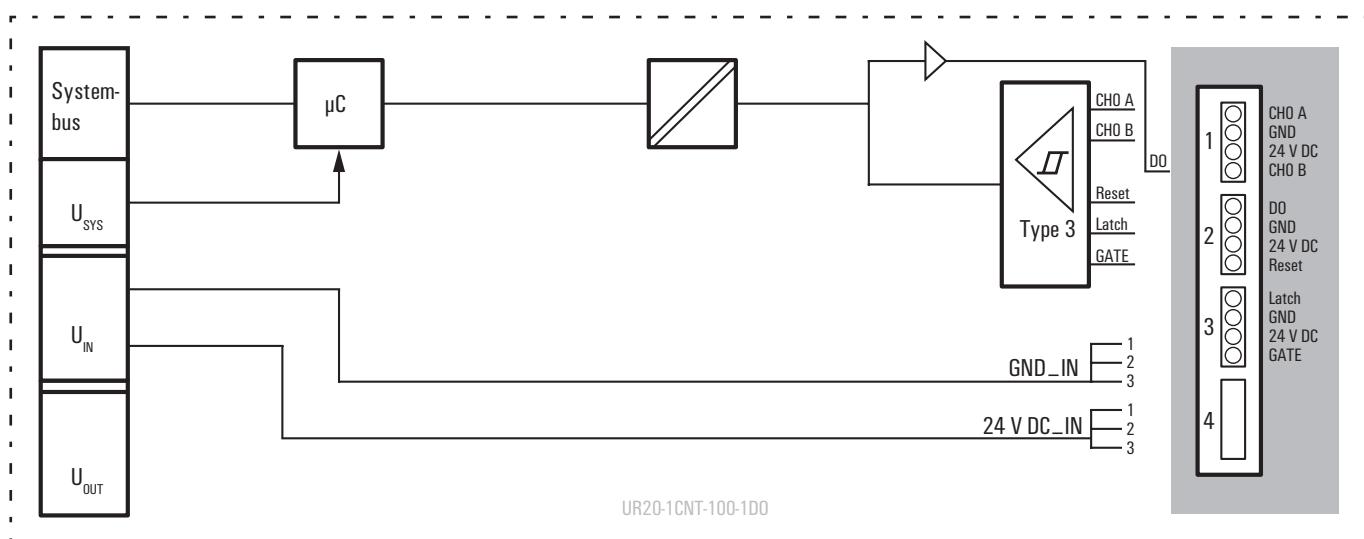
Single channel diagnosis

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 synchronous-serial Interface module (SSI) high-precision positioning can be realized with absolute encoders. By parameterization the module can work in master- or listening mode to meet all operational situations. 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 module UR20-1COM-232-485-422 offers 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 decentralized IP67 SAI-PRO sub-bus modules can be integrated per u -remote module.

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

UR20-1CNT-100-1DO block diagram example



1CNT-100-1DO

- Latch-, Gate- and Reset input
- 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
- One digital output

UR20-1CNT-100-1DO**Technical data****System data**

Interface
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

Digital Inputs

Number of counter inputs
Type
Input filter
Input voltage, low
Input voltage, high
Sensor feed
Sensor connection
Reverse polarity protection
Module diagnosis
Single channel diagnosis
Input current per channel, max.
Counter data width
Input frequency, max.
Counter frequency, max.
Latch, Gate, Reset-input
Operation mode

General data

Weight
Dimensions (H/W/D)

Ordering data**Module variants**

Digital counter module, 1 channel, 100 kHz

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

35 mA

1

incremental encoder

adjustable up to 1 ms

< 5 V

> 11 V

yes

2- and 3-wire

yes

yes

3.5 mA

32 Bit

100 kHz

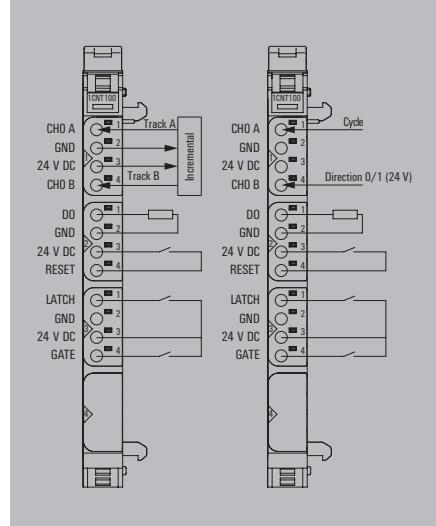
400 kHz

yes

Impulse / direction / 1-, 2-, 4-times

87 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

**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

Electronics module
Basic module
Plug-in connector unit

Note

Type	Qty.	Order No.
UR20-1CNT-100-1DO	1	1315570000

*1) 1 roll = 1000 label = 1 Qty.
*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315570000



Let's connect.

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
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

Digital Inputs

Number of counter inputs
Type
Input filter
Input voltage, low
Input voltage, high
Sensor feed
Sensor connection
Reverse polarity protection
Module diagnosis
Single channel diagnosis
Input current per channel, max.
Counter data width
Input frequency, max.
Counter frequency, max.
Operation mode

General data

Weight
Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / - 15 % via the system bus

8 mA

35 mA

2

incremental encoder

adjustable up to 1 ms

< 5 V

> 11 V

yes

2- and 3-wire

yes

yes

yes

3.5 mA

32 Bit

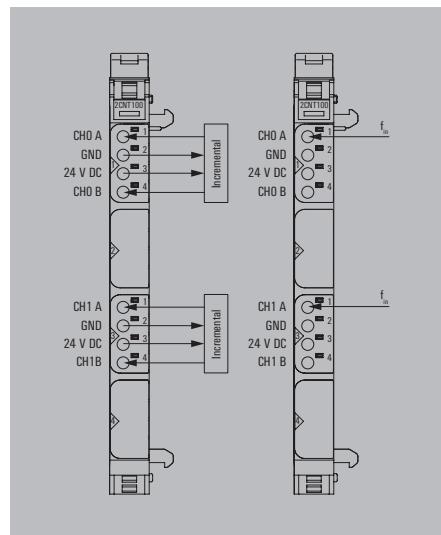
100 kHz

400 kHz

Impulse / direction / 1-, 2-, 4-times

87 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

**Ordering data****Module variants**

Digital counter module, 2 channel, 100 kHz

Type	Qty.	Order No.
UR20-2CNT-100	1	1315590000

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

Type	Qty.	Order No.
KOSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SMA-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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000

Replacement parts

UR20-EM-1315590000-SP	1	1347150000
UR20-BM-SP	5	1350930000
UR20-PK-1315590000-SP	5	1346540000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315590000



Let's connect.

1CNT-500

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

UR20-1CNT-500**Technical data****System data**

Interface	u-remote system bus
Transmission rate of system bus	48 Mbps
Galvanic isolation	DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / -15 % via the system bus
Current consumption from system current path I_{SYS}	8 mA
Current consumption from input current path I_{IN}	20 mA

Digitale Eingänge

Number of counter inputs	1
Type	Incremental encoder
Input filter	adjustable up to 1 ms
Sensor supply	max. 0.5 A at 24 V
	max. 0.4 A at 5 V

Short-circuit-proof

Module diagnosis	yes
Individual channel diagnosis	no

Counter data width

max.	32 Bit
Input frequency, max.	500 kHz

Operation mode

Impuls / direction / 1-, 2-, 4-times

General data

Weight	72 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data**Module variants**

Digital counter module, 1 channel, 500 kHz
--

Type	Qty.	Order No.
UR20-1CNT-500	1	1315580000

Accessories

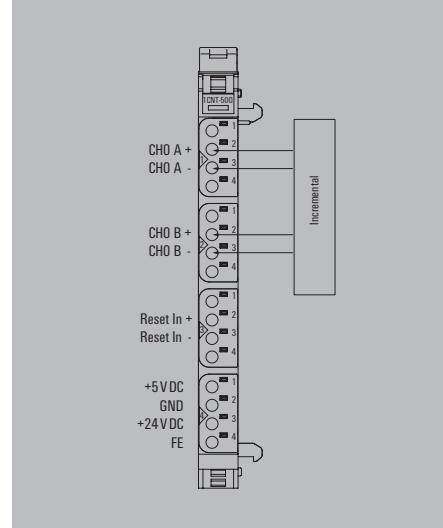
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SMA-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom 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)	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS *1)	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS *2)	10	1429430000

Replacement parts

Electronics 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) 1 roll = 1000 label = 1 Qty.
*2) 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
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

Digital Inputs

Number of counter inputs
Type
Input filter
Input voltage, low
Input voltage, high
Sensor feed
Sensor connection
Reverse polarity protection
Module diagnosis
Single channel diagnosis
Input current per channel, max.
Counter data width
Input frequency, max.
Operation mode

General data

Weight
Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / - 15 % via the system bus

8 mA

35 mA

2

digital input

adjustable up to 1 ms

< 5 V

> 11 V

yes

2- and 3-wire

yes

yes

no

3.5 mA

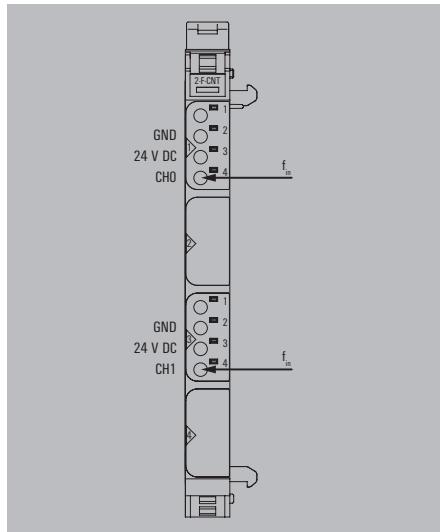
32 Bit

100 kHz

Impulse

87 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

**Ordering data****Module variants**

Digital frequency counter module, 2 channel, 100 kHz

Type	Qty.	Order No.
UR20-2FCNT-100	1	1508080000

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
Electronics 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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000
UR20-EM-1508080000-SP	1	1515440000
UR20-BM-SP	5	1350930000
UR20-PK-1508080000-SP	5	1518840000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1508080000



Let's connect.

SSI

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

UR20-SSI**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Supply

Voltage supply

Current consumption from system current path I_{SYS} Current consumption from input current path I_{OUT} **Serial inputs**

Number

Type

Transfer rate SSI

Delay time

Data width

Data type

SSI-mode

Sensor supply

Reverse polarity protection

Module diagnosis

Individual channel diagnosis

Wire length

General data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

25 mA + sensor current

1

SSI (differential input RS-422)

125 kHz, 250 kHz, 500 kHz, 1 MHz, 1.5 MHz, 2 MHz

1 µs, 2 µs, 4 µs, 8 µs, 16 µs, 32 µs, 48 µs, 64 µs

8 ... 32 Bit

Binary / Gray-Code

Listening / Master

0.5 A (24 V DC); 0.4 A (5V DC)

yes

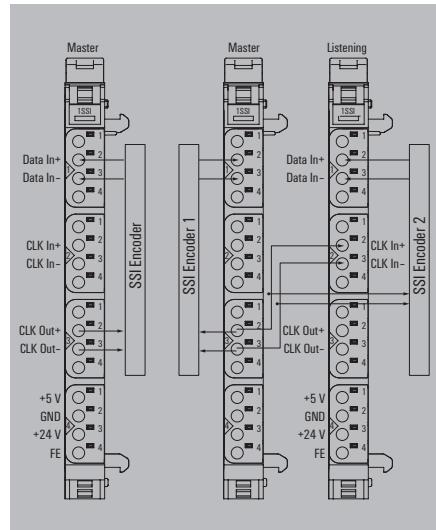
yes

no

max. 320 m at 125 kHz, screened

87 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

**Ordering data****Module variants**

SSI-module, 1 channel, 8-32 Bit

Type	Qty.	Order No.
UR20-SSI	1	1508090000

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

Electronics 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)	1	1429910000
THM UR20 WS *1)	1	1429420000
ESO UR20 DIN A4 WS *2)	10	1429430000

*1) 1 roll = 1000 label = 1 Qty.

*2) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1508090000



Let's connect.

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
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

RS Interface

Number
Connection
Transmission rate
Supply voltage
Output current Supply voltage, max.
RS232 standards
RS485/422 standards
Short-circuit-proof
Module diagnosis
Individual channel diagnosis

General data

Weight
Dimensions (H/W/D)

Ordering data**Module variants**

RS232/RS485/RS422 communication module

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

50 mA + load

1

1x RS232 / 1x RS485/422

configurable, 300...115200 Bit/s

5 V / 24 V

0.5 A

DIN 66020, DIN 66259, EIA-RS 232C, CCITT V.24/V.28

DIN 66259 Part 1 and 3, EIA-RS422/485, CCITT V.11

yes

yes

yes

92 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Accessories

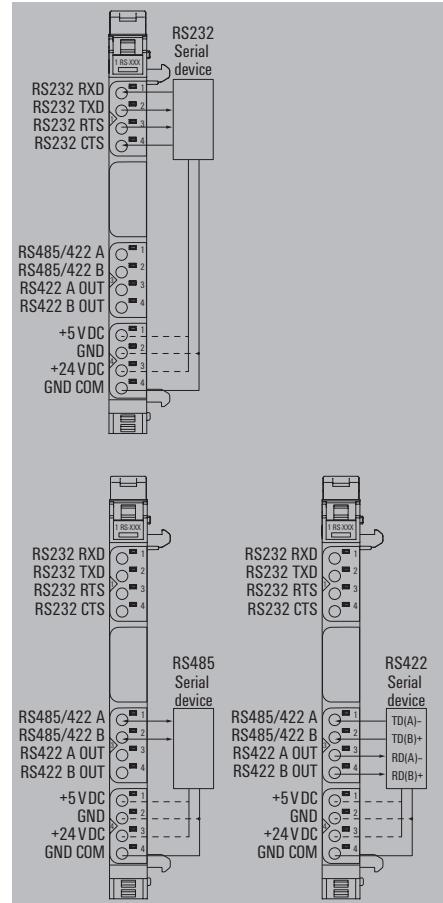
Coding elements
Termination kit
Swivel marker
Connection marker for pusher custom printing
Connection marker for pusher neutral
Module marker for custom printing
Module marker for neutral
Thermotransfer version (Material: Polyester)
Thermotransfer version (Material: Polyester)
Paper version for Laserprinter

Replacement parts

Electronics module
Basic module
Plug-in connector unit

Note**Type****Qty.****Order No.**

UR20-1COM-232-485-422 1 1315750000



Product standard	IEC 61131-2
EMC	EN 61000
ATEX (in preparation)	EN 60079
UL (in preparation)	UL 61010-2-201
MSIP (in preparation)	MSIP-REM-WM6-1315750000



Let's connect.

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
Transmission rate of system bus
Galvanic isolation

Supply

Voltage supply
Current consumption (I_{IN} in power segment of field bus coupler), typ.
Current consumption (I_{IN} in the respective power segment)

IP67 Interface

Number
Connection
Transmission rate
Supply voltage
Output current Supply voltage
Short-circuit-proof
Module diagnosis
Individual channel diagnosis

General data

Weight
Dimensions (H/W/D)
120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

u-remote system bus

48 Mbps

DC 500 V between current paths

24 V DC +20 % / -15 % via the system bus

8 mA

20 mA + SAI supply current

1

SAI-PRO Subbus

250 kbit/s, 500 kbit/s configurable

+24 V DC

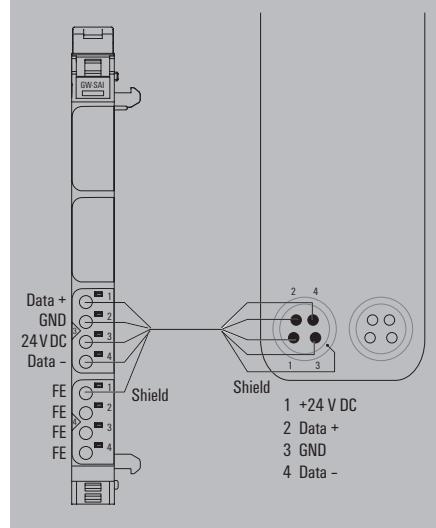
max. 3 A

yes

yes

yes, diagnosis of the Subbus modules

87 g

**Ordering data**

Module variants
IP20-IP67 communication module

Type	Qty.	Order No.
UR20-1COM-SAI-PRO	1	2007430000

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

Electronics module	1	2425350000
Basic module	5	1350930000
Plug-in connector unit	5	2425160000

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000

UR20-EM-2007430000-SP	1	2425350000
UR20-BM-SP	5	1350930000
UR20-PK-2007430000-SP	5	2425160000

*¹⁾ 1 roll = 1000 label = 1 Qty.*²⁾ 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX (in preparation)	EN 60079
UL (in preparation)	UL 61010-2-201
MSIP (in preparation)	MSIP-REM-WMG-2007430000



Let's connect.

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 environment 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.

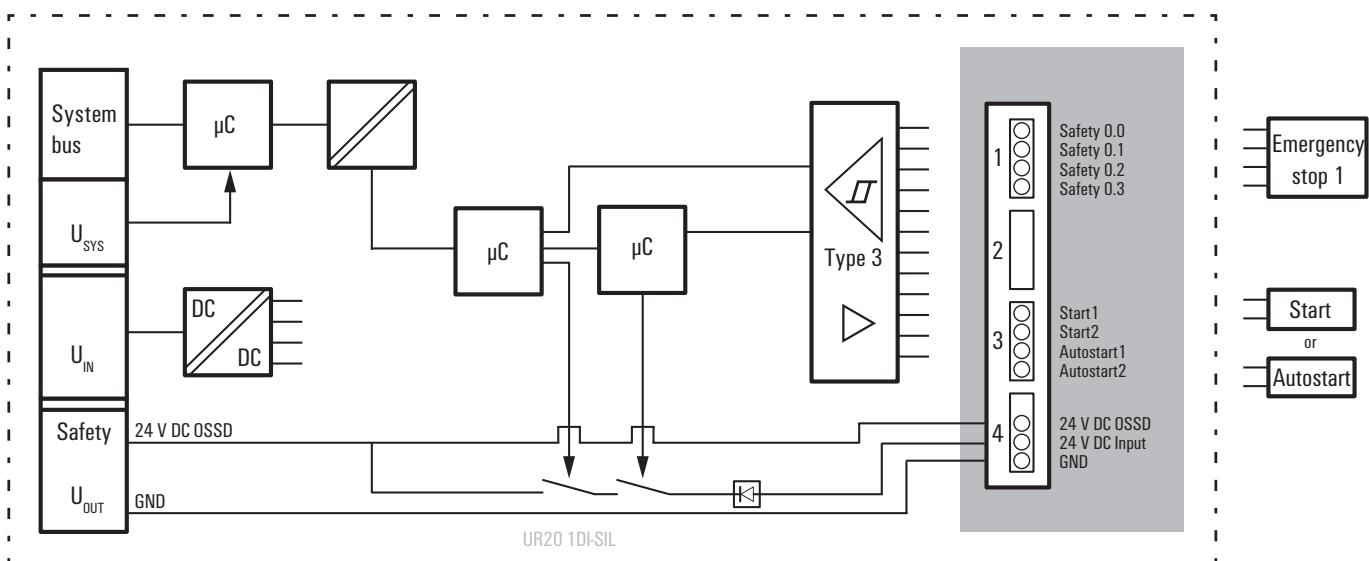
The safe power-feed modules of the u-remote system have key features such as emergency stop circuits and wire breakage/ short-circuit detection. They satisfy all SIL 3 requirements according to IEC 62061 and EN ISO 13849-1, Category 4, PL e and support the safe operation of your system.

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-PF-O-1DI-SIL block diagram example



4DI-4DO-PN-FSOE

- 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

Technical data**System data**

Interface
Transmission rate of system bus
Galvanic isolation

Safety-related data

Achievable safety level

Inputs
OutputsDiagnostic Coverage DC_{avg} (IEC 62061)

Diagnostic Coverage (DIN EN ISO 13849)

MTTF_d (Mean Time To Failure dangerous)

PFH (Probability of Failure per Hour in 1/h)

SSF (Safe Failure Fraction)

HFT (Hardware Fault Tolerance)

Supply

Voltage supply

Current consumption from system current path I_{SYS}Current consumption from input current path I_{OUT}**Inputs**

Number

Input Type

Input filter

Input voltage low

Input voltage high

Sensor supply

Reverse polarity protection

Module diagnosis

Individual channel diagnosis

Outputs

Number

Type of load

Response time

Max. output current

per channel/per module

Actuator connection

Short-circuit-proof

Protective circuit

Response time of the current limiting circuit

Module diagnosis

Individual channel diagnosis

Reactionless

General data

Weight

Dimensions (H/W/D)

Ordering data**Module variants**

Safety module FSOE, 4 digital inputs, 4 digital outputs

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)

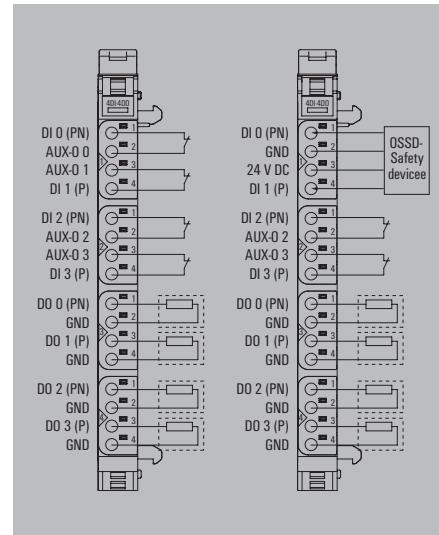
Paper version for Laserprinter

Replacement parts

Electronics module

Basic module

Plug-in connector unit

Note**UR20-4DI-4DO-PN-FSOE****u-remote system bus**

48 Mbps

DC 500 V between current paths

SIL 3 (IEC 61508), SILCL 3 (IEC 62061), PLd and Cat. 4 (DIN EN ISO 13849-1)*

SIL 3 (IEC 61508), SILCL 3 (IEC 62061), PLd and Cat. 4 (DIN EN ISO 13849-1)*

Input: 0.921; output: 0.969

Input, single channel: 90%; dual channel: 99%; Output: 99%

> 100 Years (Input: 4488a, output: 3067a)

Input, single channel: 2*10⁻⁶; dual channel: 4.07*10⁻¹¹; Output: 2.02*10⁻¹¹

Input: 0.978; output: 0.989

Input, single channel: 0; dual channel: 1; Output: 1

24 V DC +20 % / -15 % via the system bus

8 mA

< 30 mA + sensor feed

4, two of them are parametrisable P- or N-switching

Type 1 and Type 3 as per IEC 61131-2*

Input delay adjustable from 0 to 40 ms*

P-switching: < 5 V; N-switching: > 5 V against +24 V

P-switching: > 11 V; N-switching: < -11 V against +24 V

max. 0.8 A per plug, total max. 1.6 A

yes

yes

yes

4, two of them are parametrisable P- or N-switching

ohmic, inductive, lamp load

10 ms

0.5 A / 2 A

2-wire

yes

Constant current with thermal switch-off

< 100 µs

yes

yes

no

87 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Product standard

IEC 61131-2

EMC

EN 61000

ATEX

EN 60079

UL

UL 508

MSIP

MSIP-REM-WMG-1529780000



Let's connect.

8DI-PN-FSOE

- 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**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Safety-related data

Achievable safety level

Inputs

Diagnostic Coverage DC_{AVG} (IEC 62061)

Diagnostic Coverage (DIN EN ISO 13849)

MTTF_d (Mean Time To Failure dangerous)

PFH (Probability of Failure per Hour in 1/h)

SSF (Safe Failure Fraction)

HFT (Hardware Fault Tolerance)

Supply

Voltage supply

Current consumption from system current path I_{SYS}Current consumption from input current path I_{IN}**Inputs**

Number

Input Type

Input filter

Input voltage low

Input voltage high

Sensor supply

Sensor connection

Reverse polarity protection

Module diagnosis

Individual channel diagnosis

General Data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

SIL 3 (IEC 61508), SILCL 3 (IEC 62061), PLe and Cat. 4 (DIN EN ISO 13849-1)*

0.921

Single channel: 90%; dual channel: 99%

> 100 Years (4488a)

Single channel: 2*10⁸; dual channel: 4.07*10¹¹

0.978

Single channel: 0; dual channel: 1

24 V DC +20 % / -15 % via the system bus

8 mA

< 30 mA + sensor feed

8, four of them are parametrisable P- or N-switching

Type 1 and Type 3 as per IEC 61131-2*

Input delay adjustable from 0 to 40 ms*

P-switching: < 5 V; N-switching: > 5 V against +24 V

P-switching: > 11 V; N-switching: < -11 V against +24 V

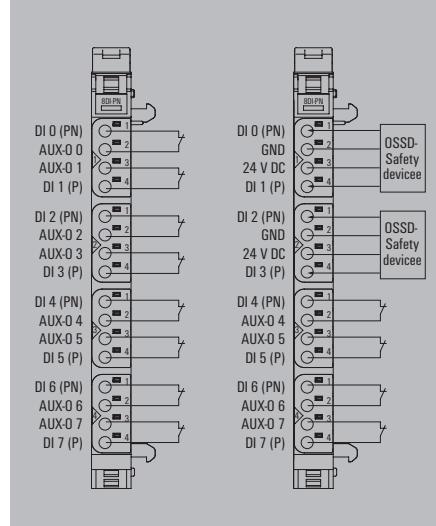
max. 0.8 A per plug, total max. 3.2 A

2-wire, 3-wire, 4-wire

yes

yes

yes



87 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data**Module variants**

Safety module FSOE, 8 digital inputs

Type	Qty.	Order No.
UR20-8DI-PN-FSOE	1	1529800000

*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.**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

Electronics 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	1322700000
PM 2.7/2.6 MC NE WS	960	1322710000
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-1529800000-SP	1	1992970000
UR20-BM-SP	5	1350930000
UR20-PK-1529800000-SP	5	1993040000

*) 1 roll = 1000 label = 1 Qty.

**) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1529800000



Let's connect.

4DI-4DO-PN-FSPS

- 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

Technical data**System data**

Interface
Transmission rate of system bus
Galvanic isolation

Safety-related data

Achievable safety level

Inputs
OutputsDiagnostic Coverage DC_{avg} (IEC 62061)

Diagnostic Coverage (DIN EN ISO 13849)

MTTF_d (Mean Time To Failure dangerous)

PFH (Probability of Failure per Hour in 1/h)

SSF (Safe Failure Fraction)

HFT (Hardware Fault Tolerance)

Supply

Voltage supply

Current consumption from system current path I_{SYS}Current consumption from input current path I_{OUT}**Inputs**

Number

Input Type

Input filter

Input voltage low

Input voltage high

Sensor supply

Reverse polarity protection

Module diagnosis

Individual channel diagnosis

Outputs

Number

Type of load

Response time

Max. output current

per channel/per module

Actuator connection

Short-circuit-proof

Protective circuit

Response time of the current limiting circuit

Module diagnosis

Individual channel diagnosis

Reactionless

General data

Weight

Dimensions (H/W/D)

Ordering data**Module variants**

Safety module PROFIsafe, 4 digital inputs, 4 digital outputs

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)

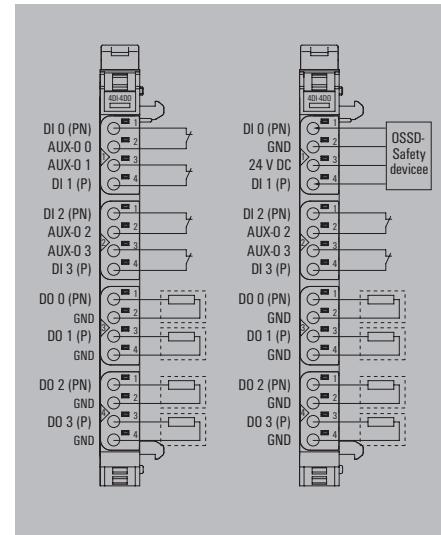
Paper version for Laserprinter

Replacement parts

Electronics module

Basic module

Plug-in connector unit

Note**UR20-4DI-4DO-PN-FSPS**

u-remote system bus			
48 Mbps			
DC 500 V between current paths			
SIL 3 (IEC 61508), SILCL 3 (IEC 62061), PLd and Cat. 4 (DIN EN ISO 13849-1)*			
SIL 3 (IEC 61508), SILCL 3 (IEC 62061), PLd and Cat. 4 (DIN EN ISO 13849-1)*			
Input: 0.921; output: 0.969			
Input, single channel: 90%; dual channel: 99%; Output: 99% > 100 Years (Input: 4488a, output: 3067a)			
Input, single channel: 2*10 ⁻⁶ ; dual channel: 4.07*10 ⁻¹¹ ; Output: 2.02*10 ⁻¹¹			
Input: 0.978; output: 0.989			
Input, single channel: 0; dual channel: 1; Output: 1			
24 V DC +20 % / -15 % via the system bus			
8 mA			
< 30 mA + sensor feed			
4, two of them are parametrisable P- or N-switching			
Type 1 and Type 3 as per IEC 61131-2*			
Input delay adjustable from 0 to 40 ms*			
P-switching: < 5 V; N-switching: > 5 V against +24 V			
P-switching: > 11 V; N-switching: < -11 V against +24 V			
max. 0.8 A per plug, total max. 1.6 A			
yes			
yes			
yes			
4, two of them are parametrisable P- or N-switching			
ohmic, inductive, lamp load			
10 ms			
0.5 A / 2 A			
2-wire			
yes			
Constant current with thermal switch-off			
< 10 µs			
yes			
yes			
no			
87 g			
120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm			

Type	Qty.	Order No.
UR20-4DI-4DO-PN-FSPS	1	1335060000
*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.		
UR20-EM-1335060000-SP	1	1347550000
UR20-BM-SP	5	1350930000
UR20-PK-1335060000-SP	5	1992940000
*) 1 roll = 1000 label = 1 Qty.		
**) 1 sheet = 60 label = 1 Qty.		

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1335060000



Let's connect.

8DI-PN-FSPS

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

UR20-8DI-PN-FSPS**Technical data****System data**

Interface

Transmission rate of system bus

Galvanic isolation

Safety-related data

Achievable safety level

Inputs

Diagnostic Coverage DC_{AVG} (IEC 62061)

Diagnostic Coverage (DIN EN ISO 13849)

MTTF_d (Mean Time To Failure dangerous)

PFH (Probability of Failure per hour in 1/h)

SSF (Safe Failure Fraction)

HFT (Hardware Fault Tolerance)

Supply

Voltage supply

Current consumption from system current path I_{SYS}Current consumption from input current path I_{IN}**Inputs**

Number

Input Type

Input filter

Input voltage low

Input voltage high

Sensor supply

Sensor connection

Reverse polarity protection

Module diagnosis

Individual channel diagnosis

General Data

Weight

Dimensions (H/W/D)

u-remote system bus

48 Mbps

DC 500 V between current paths

SIL 3 (IEC 61508), SILCL 3 (IEC 62061), PLe and Cat. 4 (DIN EN ISO 13849-1)*

0.921

Single channel: 90%; dual channel: 99%

> 100 Years (4488a)

Single channel: 2*10⁸; dual channel: 4.07*10¹¹

0.978

Single channel: 0; dual channel: 1

24 V DC +20 % / -15 % via the system bus

8 mA

< 30 mA + sensor feed

8, four of them are parametrisable P- or N-switching

Type 1 and Type 3 as per IEC 61131-2*

Input delay adjustable from 0 to 40 ms*

P-switching: < 5 V; N-switching: > 5 V against +24 V

P-switching: > 11 V; N-switching: < -11 V against +24 V

max. 0.8 A per plug, total max. 3.2 A

2-wire, 3-wire, 4-wire

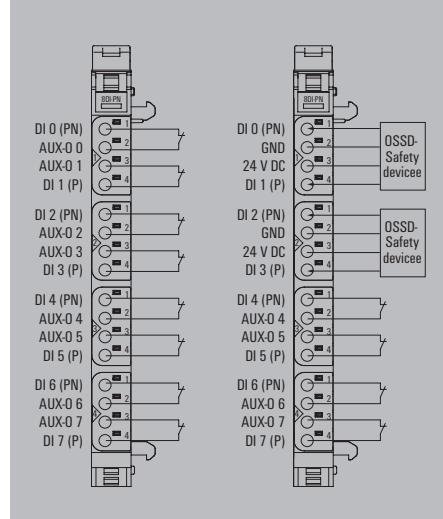
yes

yes

yes

87 g

120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

**Ordering data****Module variants**

Safety module PROFIsafe, 8 digital inputs

Type	Qty.	Order No.
UR20-8DI-PN-FSPS	1	1335070000

*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.**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

Electronics 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	1322700000
PM 2.7/2.6 MC NE WS	960	1322710000
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-1335070000-SP	1	1347570000
UR20-BM-SP	5	1350930000
UR20-PK-1335070000-SP	5	1992950000

*) 1 roll = 1000 label = 1 Qty.

**) 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1335070000



Let's connect.

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

Transmission rate of system bus

u-remote system bus

48 Mbps

Safety-related data

Achievable safety standard

IEC 61508 SIL 3 and DIN EN ISO 13849-1:2008 PL e

Level of diagnostic coverage

96.64 %

MTTF_d> 100 years (PFH = 6.27 * 10⁻⁹ 1/h)

SFF

98.58 %

HFT

1

Supply

Supply voltage for system and inputs

24 V DC +20 % / -15 % via the system bus

Supply voltage for outputs

24 V DC +20 % / -15 %

Maximum feed current for input modules

8 A

Current consumption (internal)

35 mA

Digital inputs

Wire breakage detection

yes

Short-circuit detection

yes

General data

Weight

80 g

Dimensions (H/W/D)

120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data**Module variants**

Safety module, 1 digital input

Type	Qty.	Order No.
UR20-PF-O-1DI-SIL	1	1335030000

Accessories

Coding elements

Type	Qty.	Order No.
KOSM BHZ5.00	100	1483050000

Termination kit

UR20-EBK-ACC	5	1346610000
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Swivel marker

UR20-SM-ACC	20	1339920000
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Connection marker for pusher custom printing

PM 2.7/2.6 MC SDR	192	1323700000
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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
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Thermotransfer version (Material: Polyester)

THM UR20 GE * ¹⁾	1	1429910000
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Thermotransfer version (Material: Polyester)

THM UR20 WS * ¹⁾	1	1429420000
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Paper version for Laserprinter

ESO UR20 DIN A4 WS * ²⁾	10	1429430000
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Replacement parts

Electronics module

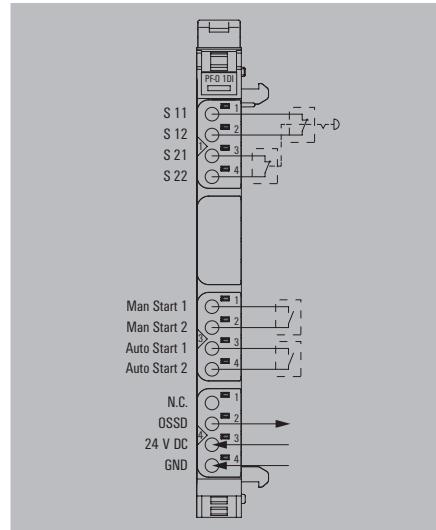
UR20-EM-1335030000-SP	1	1347520000
-----------------------	---	------------

Basic module

UR20-BM-SIL-SP	5	1350970000
----------------	---	------------

Plug-in connector unit

UR20-PK-1335030000-SP	5	1346560000
-----------------------	---	------------

Note*¹⁾ 1 roll = 1000 label = 1 Qty.*²⁾ 1 sheet = 60 label = 1 Qty.

Let's connect.

Safe I/O modules and safe power-feed modules

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
Transmission rate of system bus

Safety-related data

Achievable safety standard
Level of diagnostic coverage
MTTF_d
SFF
HFT

Supply

Supply voltage for system and inputs
Supply voltage for outputs
Maximum feed current for input modules
Current consumption (internal)
Digital inputs

Wire breakage detection
Short-circuit detection

General data

Weight
Dimensions (H/W/D)

u-remote system bus

48 Mbps

IEC 61508 SIL 3 and DIN EN ISO 13849-1:2008 PL e

96.64 %

> 100 years (PFH = 6.27 * 10⁻⁹ 1/h)

98.58 %

1

24 V DC +20 % / -15 % via the system bus

24 V DC +20 % / -15 %

8 A

35 mA

yes

yes

82 g

120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data

Module variants

Safety module, 2 digital inputs

Type	Qty.	Order No.
UR20-PF-O-2DI-SIL	1	1335050000

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

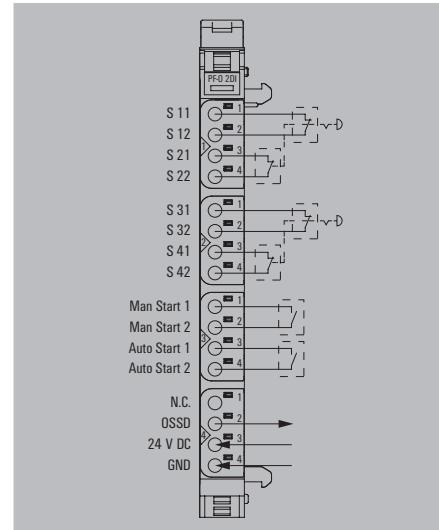
Electronics module
Basic module
Plug-in connector unit

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1335050000-SP	1	1347540000
UR20-BM-SIL-SP	5	1350970000
UR20-PK-1335050000-SP	5	1346570000

*¹⁾ 1 roll = 1000 label = 1 Qty.

*²⁾ 1 sheet = 60 label = 1 Qty.



Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1335050000



Let's connect.

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

Transmission rate of system bus

u-remote system bus

48 Mbps

Safety-related data

Achievable safety standard

IEC 61508 SIL 3 and DIN EN ISO 13849-1:2008 PL e

Level of diagnostic coverage

96.64 %

MTTF_d> 100 years (PFH = 6.27 * 10⁻⁹ 1/h)

SFF

98.58 %

HFT

1

Supply

Supply voltage for system and inputs

24 V DC +20 % / -15 % via the system bus

Supply voltage for outputs

24 V DC +20 % / -15 %

Maximum feed current for input modules

8 A

Current consumption (internal)

35 mA

Digital inputs

Wire breakage detection

yes

Short-circuit detection

yes

General data

Weight

84 g

Dimensions (H/W/D)

120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data**Module variants**

Safety module, 2 digital inputs, delayed

Type	Qty.	Order No.
UR20-PF-O-2DI-DELAY-SIL	1	1335040000

Accessories

Coding elements

KOSM BHZ5.00

Termination kit

100

Swivel marker

1483050000

Connection marker for pusher custom printing

UR20-EBK-ACC

Connection marker for pusher neutral

5

Module marker for custom printing

UR20-SM-ACC

Module marker for neutral

20

Thermotransfer version (Material: Polyester)

PM 2.7/2.6 MC SDR

Thermotransfer version (Material: Polyester)

192

Paper version for Laserprinter

1323700000

Replacement parts

Electronics module

DEK 5/8-11.5 MC NE WS

Basic module

100

Plug-in connector unit

1341610000

Note

DEK 5/8-11.5 MC NE WS

500

14249430000

THM UR20 GE *¹)

1

1429910000

THM UR20 WS *¹)

1

1429420000

ESO UR20 DIN A4 WS *²)

10

1429430000

UR20-EM-1335040000-SP

1

1347530000

UR20-BM-SIL-SP

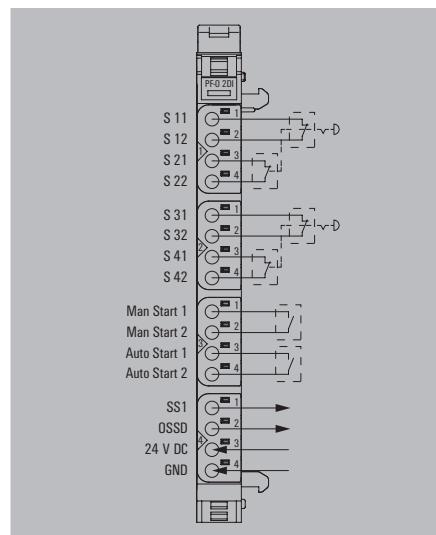
5

1350970000

UR20-PK-1335040000-SP

5

1484100000

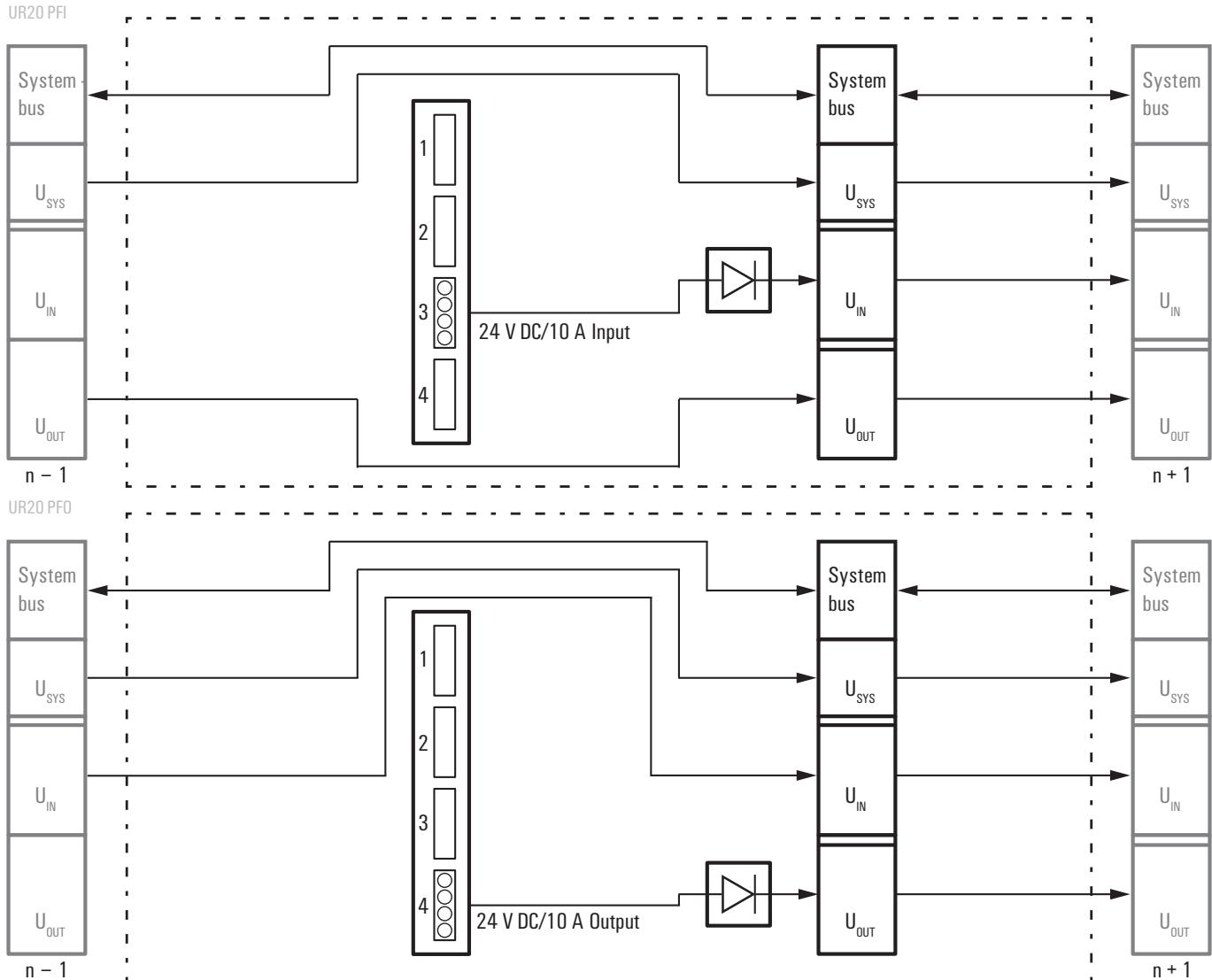
*¹) 1 roll = 1000 label = 1 Qty.*²) 1 sheet = 60 label = 1 Qty.

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.

Block diagram UR20-PF-I and 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**

Voltage supply for inputs

Maximum feed current for input modules

Current consumption (I_{IN} in the respective power segment)**General data**

Weight

Dimensions (H/W/D)

24 V DC +20 % / -15 %

10 A

10 mA

76 g

120 mm (with catch lever) x 11,5 mm x 76 mm

Ordering data**Module variants**

Power supply module

Type	Qty.	Order No.
UR20-PF-I	1	1334710000

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

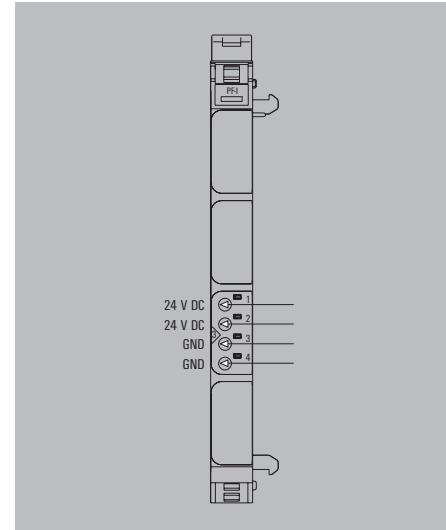
Electronics module

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)}	1	1429910000
THM UR20 WS ^{*1)}	1	1429420000
ESO UR20 DIN A4 WS ^{*2)}	10	1429430000
UR20-EM-1334710000-SP	1	1347380000
UR20-BM-PF-I-SP	5	1350940000
UR20-PK-1334710000-SP	5	1346460000

^{*1)} 1 roll = 1000 label = 1 Qty.^{*2)} 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1334710000



Let's connect.

PF-O

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

UR20-PF-O**Technical data****Supply**

Voltage supply for outputs
Maximum feed current for output modules

24 V DC +20 % / -15 %

10 A

10 mA

Current consumption (I_{OUT} in the respective power segment)**General data**

Weight

Dimensions (H/W/D)

76 g

120 mm (with catch lever) x 11,5 mm x 76 mm

Ordering data**Module variants**

Power supply module

Type	Qty.	Order No.
UR20-PF-O	1	1334740000

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

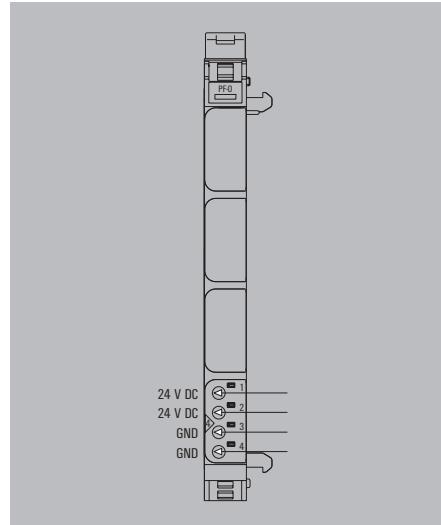
Electronics module

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1334740000-SP	1	1347420000
UR20-BM-PF-O-SP	5	1350950000
UR20-PK-1334740000-SP	5	1346480000

*¹⁾ 1 roll = 1000 label = 1 Qty.*²⁾ 1 sheet = 60 label = 1 Qty.

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1334740000



Let's connect.

IP20

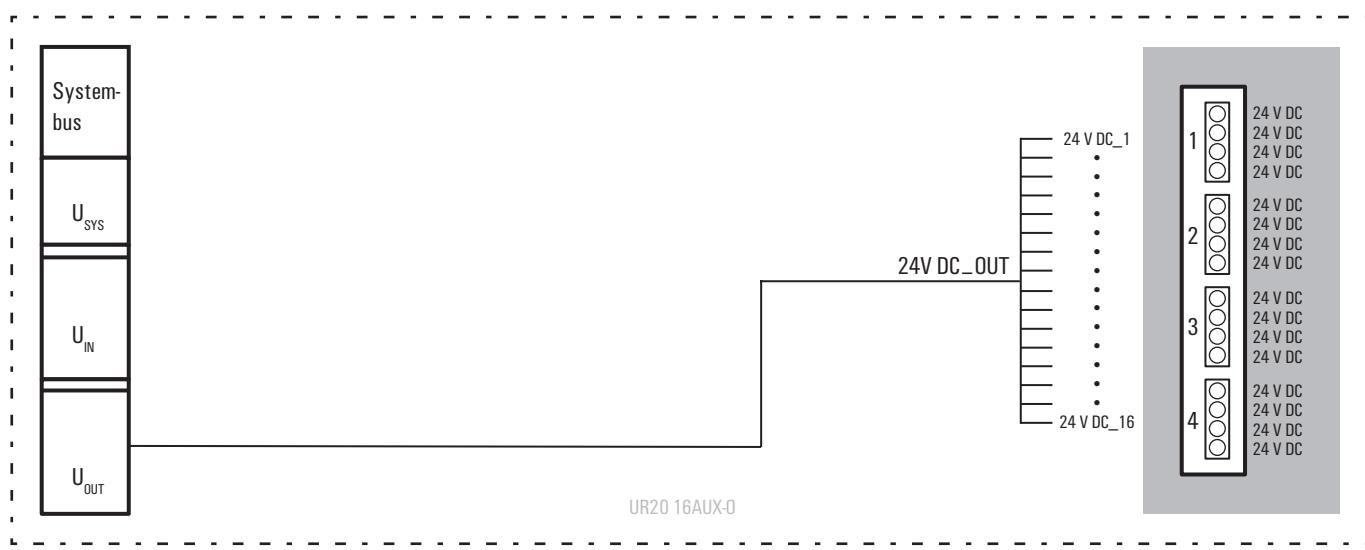
A

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.

UR20-16AUX-O block diagram example



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 % via Input- or output path / FE

General data

Weight

84 g

Dimensions (H/W/D)

120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

Ordering data**Module variants**

Potential distribution module

Type	Qty.	Order No.
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

Accessories

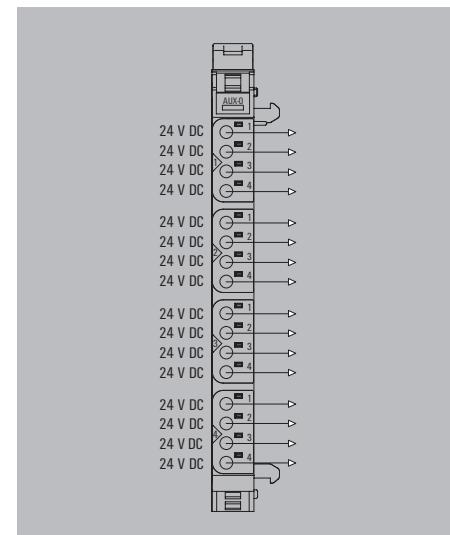
Coding elements

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⁾	1	1429910000
THM UR20 WS * ¹⁾	1	1429420000
ESO UR20 DIN A4 WS * ²⁾	10	1429430000
IE-CGFP8LE0015M40M40-E	1	1487980000

Replacement parts

Electronics 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
UR20-BM-SP	5	1350930000
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⁾ 1 roll = 1000 label = 1 Qty.*²⁾ 1 sheet = 60 label = 1 Qty.

Product standard

IEC 61131-2

EMC

EN 61000

ATEX

EN 60079

UL

UL 508

MSIP

MSIP-REM-WMG-1334770000

MSIP

MSIP-REM-WMG-1334780000

MSIP

MSIP-REM-WMG-1334790000

MSIP

MSIP-REM-WMG-1334800000

MSIP

MSIP-REM-WMG-1334810000

16AUX-I



Let's connect.

16AUX-O



Let's connect.

16AUX-FE



Let's connect.

16AUX-GND-I



Let's connect.

16AUX GND-O



Let's connect.

Empty module

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

UR20-ES**Technical data****General data**

Weight	70 g
Dimensions (H/W/D)	120 mm (with catch lever) x 11,5 mm x 76 mm

Ordering data**Module variants**

Type	Qty.	Order No.
UR20-ES	1	1315770000

Accessories

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⁾	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS * ²⁾	10	1429430000

Replacement parts

Electronics 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⁾ 1 roll = 1000 label = 1 Qty.	Product standard	IEC 61131-2
* ²⁾ 1 sheet = 60 label = 1 Qty.	EMC	EN 61000
	ATEX	EN 60079
	UL	UL 508
	MSIP	MSIP-REM-WMG-1315770000



Let's connect.

Termination kit

- Includes an end plate and two end brackets

UR20-EBK**Ordering data****Module variants**

Type	Qty.	Order No.
UR20-EBK-ACC	5	1346610000

Individual components

It goes without saying that Weidmüller also allows you to swap defective parts. The three-part modules can therefore be ordered as individual components.

Ordering data spare parts

Product	Order No.
UR20-FBC-PB-DP	1334870000
UR20-FBC-PN-RT	1334880000
UR20-FBC-EC	1334910000
UR20-FBC-MOD	1334930000
UR20-FBC-ON	1334900000
UR20-FBC-CAN	1334890000
UR20-FBC-EIP	1334920000
UR20-4DLP	1315170000
UR20-4DLP-3W	2009360000
UR20-8DLP-2W	1315180000
UR20-8DLP-3W	1394400000
UR20-8DLP-3W-HD	1315190000
UR20-16DLP	1315200000
UR20-16DLP-PLC-INT	1315210000
UR20-2DLP-TS	1460140000
UR20-4DI-P-TS	1460150000
UR20-4DI-N	1315350000
UR20-8DIN-3W	1315370000
UR20-16DIN	1315390000
UR20-16DIN-PLC-INT	1315400000
UR20-4DLW-230V-AC	1550070000
UR20-4DO-P	1315220000
UR20-4DO-P-2A	1315230000
UR20-4DO-PN-2A	1394420000
UR20-8DO-P	1315240000
UR20-8DO-P-2W-HD	1509830000
UR20-16DO-P	1315250000
UR20-16DO-P-PLC-INT	1315270000
UR20-4DO-N	1315410000
UR20-4DO-N-2A	1315420000
UR20-8DO-N	1315430000
UR20-16DO-N	1315440000
UR20-16DO-N-PLC-INT	1315450000
UR20-4RO-SSR-255	1315540000
UR20-4RO-CO-255	1315550000
UR20-1CNT-100-1DO	1315570000
UR20-1CNT-500	1315580000
UR20-2CNT-100	1315590000
UR20-2FCNT-100	1508080000
UR20-1SSI	1508090000
UR20-1COM-232-485-422	1315750000
UR20-1COM-SAI-PRO	2007430000
UR20-2PWM-PN-0.5A	1315600000
UR20-2PWM-PN-2A	1315610000
UR20-4AI-UI-12	1394390000
UR20-4AI-UI-16	1315620000
UR20-4AI-UI-16-DIAG	1315690000
UR20-4AI-UI-16-HD	1506920000
UR20-4AI-UI-16-DIAG-HD	1506910000
UR20-8AI-I-16-HD	1315650000
UR20-8AI-I-16-DIAG-HD	1315720000
UR20-8AI-PLC-INT	1315670000
UR20-4AI-UI-DIF-16-DIAG	1993880000
UR20-4AI-TC-DIAG	1315710000
UR20-4AI-RTD-DIAG	1315700000
UR20-4AI-R-HS-16-DIAG	2001670000
UR20-3EM-230V-AC	2007420000
UR20-4AO-UI-16	1315680000
UR20-4AO-UI-16-DIAG	1315730000
UR20-4AO-UI-16-HD	1510690000
UR20-4AO-UI-16-DIAG-HD	1506930000
UR20-PFI	1334710000
UR20-PF-0	1334740000
UR20-4DI-4DO-PN-FSOE	1529780000
UR20-8DI-PN-FSOE	1529800000
UR20-4DI-4DO-PN-FSPS	1335060000
UR20-8DLPN-FSPS	1335070000
UR20-PF-0-1DI-SIL	1335030000
UR20-PF-0-2DI-SIL	1335050000
UR20-PF-0-2DI-DELAY-SIL	1335040000
UR20-16AUX-I	1334770000
UR20-16AUX-O	1334780000
UR20-16AUX-FE	1334790000
UR20-16AUX-GND-I	1334800000
UR20-16AUX-GND-O	1334810000
UR20-ES	1315770000

All Plug-in connector units: Qty. - 5

Electronics module	Order No.
UR20-EM-1315170000-SP	1346640000
UR20-EM-2009360000-SP	2011260000
UR20-EM-1315180000-SP	1490220000
UR20-EM-1394400000-SP	1346650000
UR20-EM-1315190000-SP	1346670000
UR20-EM-1315200000-SP	1346680000
UR20-EM-1315210000-SP	1346690000
UR20-EM-1460140000-SP	1463690000
UR20-EM-1460150000-SP	1463680000
UR20-EM-1315350000-SP	1346870000
UR20-EM-1315370000-SP	1346880000
UR20-EM-1315390000-SP	1346920000
UR20-EM-1315400000-SP	1346930000
UR20-EM-1550070000-SP	1558880000
UR20-EM-1315220000-SP	1346700000
UR20-EM-1315230000-SP	1346710000
UR20-EM-1394420000-SP	1480950000
UR20-EM-1315240000-SP	1346720000
UR20-EM-1509830000-SP	1515450000
UR20-EM-1315250000-SP	1346730000
UR20-EM-1315270000-SP	1346740000
UR20-EM-13154110000-SP	1346940000
UR20-EM-1315420000-SP	1346950000
UR20-EM-1315430000-SP	1346970000
UR20-EM-1315440000-SP	1346980000
UR20-EM-1315450000-SP	1346990000
UR20-EM-1315540000-SP	1347120000
UR20-EM-1315550000-SP	1347130000
UR20-EM-1315570000-SP	1347140000
UR20-EM-1315580000-SP	1347170000
UR20-EM-1315590000-SP	1347150000
UR20-EM-1508080000-SP	1515440000
UR20-EM-1508090000-SP	1515490000
UR20-EM-1315750000-SP	1347350000
UR20-EM-2007430000-SP	2425350000
UR20-EM-1315600000-SP	1347180000
UR20-EM-1315610000-SP	1347190000
UR20-EM-1394390000-SP	1434230000
UR20-EM-1315620000-SP	1347200000
UR20-EM-1315690000-SP	1347280000
UR20-EM-1506920000-SP	1515420000
UR20-EM-1506910000-SP	1515430000
UR20-EM-1315650000-SP	1515450000
UR20-EM-1315720000-SP	1347320000
UR20-EM-1315670000-SP	1347250000
UR20-EM-1993880000-SP	2446190000
UR20-EM-1315710000-SP	1435740000
UR20-EM-1315700000-SP	1347290000
UR20-EM-2001670000-SP	2068640000
UR20-EM-2007420000-SP	1562270000
UR20-EM-1315680000-SP	1347270000
UR20-EM-1315730000-SP	1347330000
UR20-EM-1510690000-SP	1515470000
UR20-EM-1506930000-SP	1515480000
UR20-EM-1334710000-SP	1347370000
UR20-EM-1334740000-SP	1347420000
UR20-EM-1529780000-SP	1993030000
UR20-EM-1529800000-SP	1993040000
UR20-EM-1335060000-SP	1347550000
UR20-EM-1335070000-SP	1347570000
UR20-EM-1335030000-SP	1347520000
UR20-EM-1335050000-SP	1347540000
UR20-EM-1335040000-SP	1347530000
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

All basic modules: Qty. - 5

System overview

Below you will find assistance for putting together your system. Please note the maximum number of 64 active modules and the packaging units for the accessories! More detailed technical data and product descriptions can be found here in the catalogue in the corresponding chapter.

At the bottom right-hand side of this page, you will find assistance for supplying the current paths.

1. What field bus are you using?

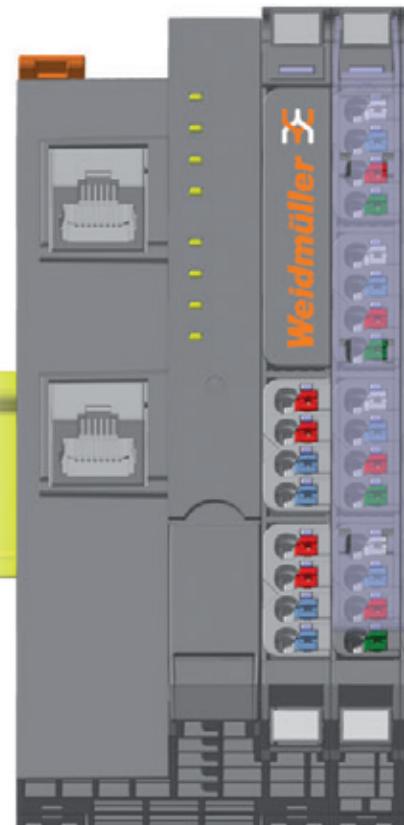
Bus	Type	Order No.	Page
PROFIBUS	UR20-FBC-PB-DP	1334870000	A.9
PROFINET	UR20-FBC-PN-IRT	1334880000	A.11
EtherCAT	UR20-FBC-EC	1334910000	A.13
Modbus	UR20-FBC-MOD-TCP	1334930000	A.15
EtherNet/IP	UR20-FBC-EIP	1334920000	A.17
DeviceNet	UR20-FBC-DN	1334900000	A.19
CANopen	UR20-FBC-CAN	1334890000	A.21

2. What signals do you want to process?

Analogue inputs		Page
UR20-4AI-UI-12	1394390000	A.59
UR20-4AI-UI-16	1315620000	A.60
UR20-4AI-UI-16-DIAG	1315690000	A.61
UR20-4AI-UI-16-HD	1506920000	A.62
UR20-4AI-UI-16-DIAG-HD	1506910000	A.63
UR20-8AI-16-HD	1315650000	A.64
UR20-8AI-16-DIAG-HD	1315720000	A.65
UR20-8AI-PLC-INT	1315670000	A.66
UR20-4AI-UI-16-DIAG	1993880000	A.67
UR20-4AI-TC-DIAG	1315710000	A.69
UR20-4AI-RTD-DIAG	1315700000	A.70
UR20-4AI-R-HS-16-DIAG	2001670000	A.71
UR20-3EM-230V-AC	2007420000	A.73
Analogue outputs		Page
UR20-4AO-UI-16	1315680000	A.75
UR20-4AO-UI-16-DIAG	1315730000	A.76
UR20-4AO-UI-16-HD	1510690000	A.77
UR20-4AO-UI-16-DIAG-HD	1506930000	A.78
Further functional modules		Page
UR20-1CNT-100-1DO	1315570000	A.81
UR20-2CNT-100	1315590000	A.82
UR20-1CNT-500	1315580000	A.83
UR20-2FCNT-100	1508080000	A.84
UR20-1SSI	1508090000	A.85
UR20-1COM-232-485-422	1315750000	A.86
UR20-1COM-SAI-PRO	2007430000	A.87
UR20-4DI-4DO-PN-FSOE	1529780000	A.89
UR20-8DI-PN-FSOE	1529800000	A.90
UR20-4DI-4DO-PN-FSPS	1335060000	A.91
UR20-8DI-PN-FSPS	1335070000	A.92
UR20-PF-0-1DI-SIL	1335030000	A.93
UR20-PF-0-2DI-SIL	1335050000	A.94
UR20-PF-0-2DI-DELAY-SIL	1335040000	A.95

2. What signals do you want to process?

Digital inputs	Order No.	Page
UR20-4DI-P	1315170000	A.23
UR20-4DI-P-3W	2009360000	A.24
UR20-8DI-P-2W	1315180000	A.25
UR20-8DI-P-3W	1394400000	A.26
UR20-8DI-P-3W-HD	1315190000	A.27
UR20-16DI-P	1315200000	A.28
UR20-16DI-P-PLC-INT	1315210000	A.29
UR20-2DI-P-TS	1460140000	A.30
UR20-4DI-P-TS	1460150000	A.31
UR20-4DI-N	1315350000	A.32
UR20-8DI-N-3W	1315370000	A.33
UR20-16DI-N	1315390000	A.34
UR20-16DI-N-PLC-INT	1315400000	A.35
UR20-4DI-2W-230V-AC	1550070000	A.36
Digital outputs	Page	
UR20-4DO-P	1315220000	A.39
UR20-4DO-2A	1315230000	A.40
UR20-4DO-PN-2A	1394420000	A.41
UR20-8DO-P	1315240000	A.42
UR20-8DO-P-2W-HD	1509830000	A.43
UR20-16DO-P	1315250000	A.44
UR20-16DO-P-PLC-INT	1315270000	A.45
UR20-4DO-N	1315410000	A.46
UR20-4DO-N-2A	1315420000	A.47
UR20-8DO-N	1315430000	A.48
UR20-16DO-N	1315440000	A.49
UR20-16DO-N-PLC-INT	1315450000	A.50
UR20-4RO-SSR-255	1315540000	A.51
UR20-4RO-CO-255	1315550000	A.52
UR20-2PWM-PN-0.5A	1315600000	A.55
UR20-2PWM-PN-2A	1315610000	A.56



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-I	1334710000	A.97
UR20-PF-O	1334740000	A.98

4. AUX and accessories

AUX	Order No.	Page
UR20-16AUX-I	1334780000	A.101
UR20-16AUX-O	1334780000	A.101
UR20-16AUX-FE	1334790000	A.101
UR20-16AUX-GND-I	1334800000	A.101
UR20-16AUX-GND-O	1334810000	A.101

Accessories	Page
End bracket	1346610000
Swivel marker	1339920000
Connection marker for pusher custom printing	1323700000
Connection marker for pusher neutral	1323710000
Module marker for custom printing	1341610000
Module marker for neutral	1341630000
Empty module	1315770000
Thermotransfer version (Material: Polyester)	1429910000
Thermotransfer version (Material: Polyester)	1429420000
Paper version for Laserprinter	1429430000

The additional supply calculation is different for each application. Simultaneity factors and current requirement must be known. To assist you, we have produced the example shown here in a simplified form.

Our example uses a row of 8-DO modules, i.e. units which can hold four actuator connections each. The actual current needed and therefore the position for a power-feed module to supply the current path can be determined from the mathematical combination of current requirement and simultaneity factor. Please note that u-remote provides an input and an 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 cal- culation 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 supplied by the UR20-PF-O module.
The 1.55 A calculated as remaining after the 10th module must not be added to the 10 A after the UR20-PF-O module!

Robust, powerful and communicative u-remote IP67

B

When constructing machines and plants, sensors and actuators have to be connected to the control unit such that all these signals can be collected locally using fieldbuses.

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 sub-bus system, this is done very flexibly and in a wide range of applications.



IP67

IP67

Introduction	B.2
Quick Reference IP67 remote I/O modules	B.6
u-remote IP67 – PROFINET, IO-Link, Multiprotocol	B.8
u-remote IP67 – PROFIBUS	B.14
SAI Active Universal – Overview	B.20
SAI Active Universal – CANopen	B.21
SAI Active Universal – DeviceNet™	B.26
SAI Active Universal Pro – Overview	B.30
SAI Active Universal Pro	B.32
Accessories for sensor cables	B.40

Remote I/O system in class of protection IP67

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

B

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 M12 L-coding 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!

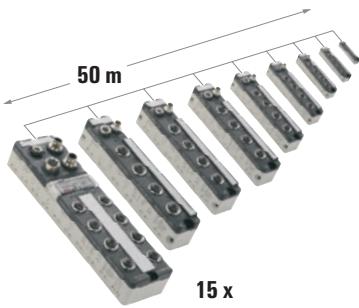
Efficient engineering

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



50 % reduced costs through flexible sub-bus concept

Sub-bus length of up to 50 m with up to 15 slaves per sub-bus 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 field bus systems.

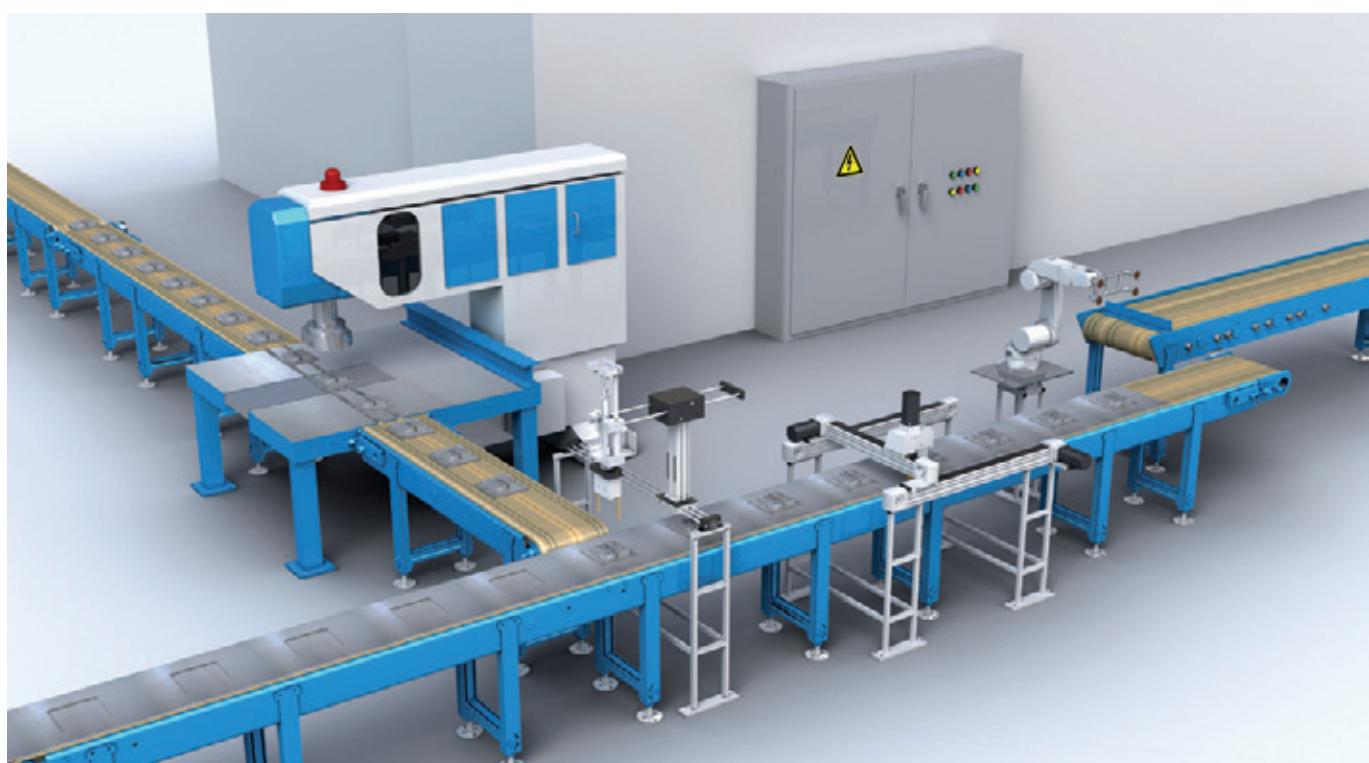


EtherNet/IP™

DeviceNet™

CANopen





Complex production processes mean that you have to co-ordinate lots of individual processing stages. Numerous sensors and actuators throughout the production facility are connected with the central control system. And in many cases, you have to bridge huge distances and process a large number of different signals.

Weidmüller's u-remote IP67 product range equips you for this production process chain in a practical way. Thanks to IP67-rated encapsulation, the remote I/O systems can be positioned directly where sensors and actuators are active. The SAI-PRO variants with sub-bus system also greatly increase your flexibility: the sub-bus system SAI-PRO can be extended to a length of up to 50 m with up to 15 modules. Up to 120 inputs or outputs are therefore possible on one fieldbus node.

Various versions of encapsulated SAI cables make the sensors and actuators accessible. You can also route fieldbus cables straight from the switch cabinet with the energy supply lines using modular, heavy-duty plug-in connectors of the RockStar® concept. This allows you to integrate several stages of production into your production facility with just one single module.

Other benefits of the u-remote family include a direct interface to your PLC programming environment and precise error analyses with visual status display. Let's connect.

IP67

B

Selection table

Order No.	Product designation	Connection system			Communication					MPI = PNP & EIP
		M8	M12	7/8"	CANopen	DeviceNet™	Modbus ASCII (RS-232/USB)	Subbus	PROFIBUS	
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-M60		X							X
2426280000	UR67-MP-HP-16DO-12-M60		X							X
2426290000	UR67-MP-HP-8IDIO-12-60M		X							X
2426320000	UR67-MP-78-8IDIO-12-60M			X						X
2426300000	UR67-MP-78-16DI-12-60M			X						X
2426310000	UR67-MP-78-16DO-12-60M			X						X
2426360000	UR67-PB-12-8DI-8-30K		X						X	
2426330000	UR67-PB-12-8DIO-8-30K		X						X	
2426370000	UR67-PB-78-16DI-12-60K			X					X	
2426340000	UR67-PB-78-16DIO-12-60K			X					X	
2426390000	UR67-PB-78-16DI-12-60M			X					X	
2426400000	UR67-PB-78-16DO-12-60M			X					X	
2426380000	UR67-PB-78-8DIDIO-12-60M			X					X	
SAI Aktiv Universal										
1906680000	SAI-AU M8 CAN 16DI		X		X					
1906690000	SAI-AU M8 CAN 16DI/8DO		X		X					
1906650000	SAI-AU M12 CAN 16DI			X	X					
1906660000	SAI AU M12 CAN 16DI/8DO			X	X					
1906670000	SAI-AU M12 CAN AI/AO/DI			X	X					
1906730000	SAI-AU M8 DN 16DI		X			X				
1906740000	SAI AU M8 DN 16DI/8DO		X			X				
1906700000	SAI-AU M12 DN 16DI			X		X				
1906710000	SAI AU M12 DN 16DI/8DO			X		X				
1906720000	SAI-AU M12 DN AI/AO/DI			X		X				
SAI Aktiv Universal Pro										
1938570000	SAI-AU M12 DN GW 16DI			X		X		X		
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	
1938720000	SAI-AU M12 SB 4Thermo			X					X	
1938710000	SAI-AU M12 SB 4PT100			X					X	

IO-Link	Inputs					Outputs			Supply voltage feed circuits	Special characteristics	Page
	Digital	Analogue	Counter	TC	RTD	Digital	Output current	Analogue			
4xTyp A & 4xTyp B										- Max. total current module = 16 A	B.10
4xTyp A & 4xTyp B										- Max. total current module = 16 A	B.10
	16						16	2 A		- Max. total current module = 9 A	B.11
							8	2 A		- Max. total current module = 9 A	B.11
							8	2 A		- Max. total current module = 9 A	B.12
	16						16	2 A		- Max. total current module = 9 A	B.13
										- Max. total current module = 9 A	B.13
	8										B.18
	8						8	0,5 A			B.18
	16										B.19
	16						16	1,6 A			B.19
	16										B.20
							16	1,6 A			B.20
							8	1,6 A			B.21
	16								2		B.26
	max. 16, min. 8 (can be configured)					max. 8, min. 0 (can be configured)	0,5 A		4	- Max. I/O channels = 16	B.26
	16								2		B.26
	max. 16, min. 8 (can be configured)					max. 8, min. 0 (can be configured)	0,5 A		4	- Max. I/O channels = 16	B.26
	4	4						2	-10...+10 V, 0...+10 V, 0...20 mA, 4...20 mA	2	B.27
	16								2		B.30
	max. 16, min. 8 (can be configured)					max. 8, min. 0 (can be configured)	0,5 A		4	- Max. I/O channels = 16	B.30
	16								2		B.30
	max. 16, min. 8 (can be configured)					max. 8, min. 0 (can be configured)	0,5 A		4	- Max. I/O channels = 16	B.30
	4	4						2	-10...+10 V, 0...+10 V, 0...20 mA, 4...20 mA	2	B.31
	16								2		B.36
	8						8	2 A			B.38
	max. 8, min. 0 (can be configured)					max. 8, min. 0 (can be configured)	0,5 A		2	- Max. I/O channels = 8	B.38
									2	- Max. total current, output = 4 A	B.38
	8										B.38
							8	2 A			B.38
									2	- Max. I/O channels = 8	B.38
									2	- Max. total current, output = 4 A	B.38
	max. 8, min. 0 (can be configured)					max. 8, min. 0 (can be configured)	0,5 A		2	- Max. I/O channels = 8	B.38
											B.39
								4	-10...+10 V, 0...+10 V, 0...20 mA, 4...20 mA	2	B.39
									2		B.40
											B.40
											B.41

Decentralised collection and forwarding of signals on the panel

u-remote modules in IP67: robust, versatile and flexible

B

The progressive decentralisation causes that more and more automation systems are being brought out from the control cabinet into the field. This opens up a wide range of opportunities but also conceals complex challenges.

u-remote IP67 modules bring more power to the system, as 16 A can be supplied through their L-coded plugs. The most compact design in the market and multi-protocol modules with PROFINET and Ethernet/IP are among the other outstanding features of the new member of the u-remote family.

The new IP67 Remote I/O modules increase the performance and efficiency of your plants and make optimum use of the available space thanks to the two designs available. The technical properties are impressive even at the system planning and assembly stage.



IP67 remote I/O modules are used wherever there are increased requirements in terms of particle and humidity protection. With u-remote, you can increase efficiency and open up new potential solutions - discover the variety!

Your special advantages:

More efficient and flexible system design

The increasing power-supply energy opens up more efficient design options: up to 17 x 16 DI modules can be wired in a line, which considerably reduces expense. Thanks to the L-coded plug, only one module and a cable set needs to be stocked each for PROFINET and EtherNet/IP.

Maximum power in the system

The L-coded plug makes a 16 A power supply possible. It allows a greater number of consumers which can be wired in a line and thus reduces the level of cabling.

**One module for two protocols**

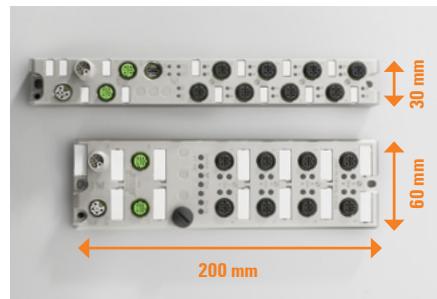
Whether PROFINET or Ethernet/IP: thanks to the multi-protocol module of u-remote, you only need one remote I/O module on stock.

**IO-link type A and B on one module**

The benefits of IO-link lie in the improved parameter and diagnostic properties for the connected sensors and actuators. On the type B ports actuators with up to 2 A can be connected. Additionally every port can be configured as an input or an output.

**Compact designs**

The 30 mm wide design is particularly suited to confined spaces. Even the short length of the modules and their low weight are to be highlighted as they offer advantages for many applications.



PROFINET

Remote I/O for digital signal processing

**UR67-PN-HP-8IOL-12-30M****UR67-PN-HP-8IOL-12-60M****Ordering data**

Module variants	IO-Link, 4x Type A, 4x Type B
Note	

Type	Qty.	Order No.
UR67-PN-HP-8IOL-12-30M	1	2426250000

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

Connections

Fieldbus (BUS-IN)	1x M12 female 4-pole, D-coded
Fieldbus (BUS-OUT)	1x M12 female 4-pole, D-coded
Supply voltage (AUX-IN)	1x M12 plug 5-pole, L-coded
Supply voltage (AUX-OUT)	1x M12 socket 5-pole, L-coded
I/O connections	8 x M12 socket 5-pole, A-coded

Connections

Fieldbus (BUS-IN)	1x M12 female 4-pole, D-coded
Fieldbus (BUS-OUT)	1x M12 female 4-pole, D-coded
Supply voltage (AUX-IN)	1x M12 plug 5-pole, L-coded
Supply voltage (AUX-OUT)	1x M12 socket 5-pole, L-coded
I/O connections	8 x M12 socket 5-pole, A-coded

Connections

Fieldbus (BUS-IN)	1x M12 female 4-pole, D-coded
Fieldbus (BUS-OUT)	1x M12 female 4-pole, D-coded
Supply voltage (AUX-IN)	1x M12 plug 5-pole, L-coded
Supply voltage (AUX-OUT)	1x M12 socket 5-pole, L-coded
I/O connections	8 x M12 socket 5-pole, A-coded

Voltage supply

Operating voltage	24 V ((18 V DC ... 30 V DC))
Current consumption module electronic	typ. 160 mA

Voltage supply

Operating voltage	24 V ((18 V DC ... 30 V DC))
Current consumption module electronic	typ. 160 mA

Voltage supply

Operating voltage	24 V ((18 V DC ... 30 V DC))
Current consumption module electronic	typ. 160 mA

Digital inputs

IO-Link standard	IO-Link v.1.1, IEC 61131-9
Galvanic isolation	Yes, 2000 V DC
Input current, low	Type 1 / IEC 61131-2
Input current, high	Type 1 / IEC 61131-2
Reverse polarity protection	Yes
Short-circuit protection	Yes
Overload protection	Yes
Status indicator	Channel wise, via LED, yellow
Diagnosis indication	Channel wise, via LED, red

Digital inputs

IO-Link standard	IO-Link v.1.1, IEC 61131-9
Galvanic isolation	Yes, 2000 V DC
Input current, low	Type 1 / IEC 61131-2
Input current, high	Type 1 / IEC 61131-2
Reverse polarity protection	Yes
Short-circuit protection	Yes
Overload protection	Yes
Status indicator	Channel wise, via LED, yellow
Diagnosis indication	Channel wise, via LED, red

Digital inputs

IO-Link standard	IO-Link v.1.1, IEC 61131-9
Galvanic isolation	Yes, 2000 V DC
Input current, low	Type 1 / IEC 61131-2
Input current, high	Type 1 / IEC 61131-2
Reverse polarity protection	Yes
Short-circuit protection	Yes
Overload protection	Yes
Status indicator	Channel wise, via LED, yellow
Diagnosis indication	Channel wise, via LED, red

Fieldbus

Bus system	PROFINET V2.3
Transmission rate	10/100 Mbit/s
Addressing	DCP

Fieldbus

Bus system	PROFINET V2.3
Transmission rate	10/100 Mbit/s
Addressing	DCP

Fieldbus

Bus system	PROFINET V2.3
Transmission rate	10/100 Mbit/s
Addressing	DCP

General data

L x W x H	225 mm / 30 mm / 30 mm
Weight	480 g
Protection degree	IP67
Operating temperature	-20 °C...70 °C
Housing main material / UL 94 flammability rating	Zinc diecast / UL 94

General data

L x W x H	225 mm / 30 mm / 30 mm
Weight	480 g
Protection degree	IP67
Operating temperature	-20 °C...70 °C
Housing main material / UL 94 flammability rating	Zinc diecast / UL 94

General data

L x W x H	200 mm / 59.6 mm / 17.6 mm
Weight	500 g
Protection degree	IP67
Operating temperature	-20 °C...70 °C
Housing main material / UL 94 flammability rating	Zinc diecast / UL 94

NoteDownload of GSDML-file on www.weidmueller.comDownload of GSDML-file on www.weidmueller.com

Multiprotokoll

Remote I/O for digital signal processing



EtherNet/IP™

Multiprotocol**Ordering data**

Module variants	16 digital inputs 16 digital outputs
Note	

Connections

Fieldbus (BUS-IN)	1x M12 female 4-pole, D-coded
Fieldbus (BUS-OUT)	1x M12 female 4-pole, D-coded
Supply voltage (AUX-IN)	1x M12 plug 5-pole, L-coded
Supply voltage (AUX-OUT)	1x M12 socket 5-pole, L-coded
I/O connections	8 x M12 socket 5-pole, A-coded

Voltage supply

Operating voltage	24 V ((18 V DC ... 30 V DC))
Current consumption module electronic	typ. 100 mA

Digital inputs

Input current, low	Type 1 / IEC 61131-2
Input current, high	Type 1 / IEC 61131-2
Reverse polarity protection	Yes
Short-circuit protection	Yes
Overload protection	Yes
Status indicator	Channel wise, via LED, yellow
Diagnosis indication	Channel wise, via LED, red

Digital outputs

max. current-carrying capacity per output signal	
Output voltage, low	
Output voltage, high	
Max. total current outputs	9 A
Reverse polarity protection	
Short-circuit protection	
Overload protection	
Status indicator	
Diagnosis indication	

Fieldbus

Bus system	PROFINET V2.3, EtherNet/IP, Multiprotocol
Transmission rate	10/100 Mbit/s
Addressing	Via rotary coding switch, DCP

General data

L x W x H	200 mm / 59.6 mm / 17.6 mm
Weight	500 g
Protection degree	IP67
Operating temperature	-20 °C...70 °C
Housing main material / UL 94 flammability rating	Zinc diecast / UL 94

UR67-MP-HP-16DI-12-M60**UR67-MP-HP-16DO-12-M60****Note**Download of configuration-file on www.weidmueller.comDownload of configuration-file on www.weidmueller.com

Multiprotokoll

Remote I/O for digital signal processing



EtherNet/IP™

Multiprotocol**Ordering data****Module variants**

8 digital inputs and 8 digital outputs

Note**UR67-MP-HP-8DIDO-12-60M****UR67-MP-78-8DIDO-12-60M****Connections**

Fieldbus (BUS-IN)

Fieldbus (BUS-OUT)

Supply voltage (AUX-IN)

Supply voltage (AUX-OUT)

I/O connections

Voltage supply

Operating voltage

Current consumption module electronic

Digital inputs

Input current, low

Input current, high

Reverse polarity protection

Short-circuit protection

Overload protection

Status indicator

Diagnosis indication

Digital outputs

max. current-carrying capacity per output signal

Output voltage, low

Output voltage, high

Max. total current outputs

Reverse polarity protection

Short-circuit protection

Overload protection

Status indicator

Diagnosis indication

Fieldbus

Bus system

Transmission rate

Addressing

General data

L x W x H

Weight

Protection degree

Operating temperature

Housing main material / UL 94 flammability rating

Type	Qty.	Order No.
UR67-MP-HP-8DIDO-12-60M	1	2426290000

Type	Qty.	Order No.
UR67-MP-78-8DIDO-12-60M	1	2426320000

NoteDownload of configuration-file on www.weidmueller.comDownload of configuration-file on www.weidmueller.com

Multiprotokoll

Remote I/O for digital signal processing



EtherNet/IP™

Multiprotocol**Ordering data**

Module variants	16 digital inputs 16 digital outputs
Note	

Connections

Fieldbus (BUS-IN)

Fieldbus (BUS-OUT)

Supply voltage (AUX-IN)

Supply voltage (AUX-OUT)

I/O connections

Voltage supply

Operating voltage

Current consumption module electronic

Digital inputs

Input current, low

Input current, high

Reverse polarity protection

Short-circuit protection

Overload protection

Status indicator

Diagnosis indication

Digital outputs

max. current-carrying capacity per output signal

Output voltage, low

Output voltage, high

Max. total current outputs

Reverse polarity protection

Short-circuit protection

Overload protection

Status indicator

Diagnosis indication

Fieldbus

Bus system

Transmission rate

Addressing

General data

L x W x H

Weight

Protection degree

Operating temperature

Housing main material / UL 94 flammability rating

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

Type	Qty.	Order No.
UR67-MP-78-16DI-12-60M	1	2426300000

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

Connections	1x M12 female 4-pole, D-coded 1x M12 female 4-pole, D-coded 1x 7/8" plug 5-pole 1x 7/8" socket 5-pole 8 x M12 socket 5-pole, A-coded
Voltage supply	
24 V ((18 V DC ... 30 V DC)) typ. 100 mA	
Digital inputs	
Type 1 / IEC 61131-2 Type 1 / IEC 61131-2 Yes Yes Yes Channel wise, via LED, yellow Channel wise, via LED, red	
Digital outputs	
max. current-carrying capacity per output signal Output voltage, low Output voltage, high Max. total current outputs Reverse polarity protection Short-circuit protection Overload protection Status indicator Diagnosis indication	
Fieldbus	
PROFINET V2.3, EtherNet/IP, Multiprotocol 10/100 Mbit/s Via rotary coding switch, DCP	
General data	
L x W x H Weight Protection degree Operating temperature Housing main material / UL 94 flammability rating	

1x M12 female 4-pole, D-coded 1x M12 female 4-pole, D-coded 1x 7/8" plug 5-pole 1x 7/8" socket 5-pole 8 x M12 socket 5-pole, A-coded	1x M12 female 4-pole, D-coded 1x M12 female 4-pole, D-coded 1x 7/8" plug 5-pole 1x 7/8" socket 5-pole 8 x M12 socket 5-pole, A-coded
Voltage supply	
24 V ((18 V DC ... 30 V DC)) typ. 100 mA	
Digital inputs	
Type 1 / IEC 61131-2 Type 1 / IEC 61131-2 Yes Yes Yes Channel wise, via LED, yellow Channel wise, via LED, red	
Fieldbus	
PROFINET V2.3, EtherNet/IP, Multiprotocol 10/100 Mbit/s Via rotary coding switch, DCP	
General data	
L x W x H Weight Protection degree Operating temperature Housing main material / UL 94 flammability rating	

1x M12 female 4-pole, D-coded 1x M12 female 4-pole, D-coded 1x 7/8" plug 5-pole 1x 7/8" socket 5-pole 8 x M12 socket 5-pole, A-coded	1x M12 female 4-pole, D-coded 1x M12 female 4-pole, D-coded 1x 7/8" plug 5-pole 1x 7/8" socket 5-pole 8 x M12 socket 5-pole, A-coded
Voltage supply	
24 V ((18 V DC ... 30 V DC)) typ. 100 mA	
Digital inputs	
Type 1 / IEC 61131-2 Type 1 / IEC 61131-2 Yes Yes Yes Channel wise, via LED, yellow Channel wise, via LED, red	
Fieldbus	
PROFINET V2.3, EtherNet/IP, Multiprotocol 10/100 Mbit/s Via rotary coding switch, DCP	
General data	
2 A min. (U _L -1) max. 2 V 9 A Yes Yes Yes Channel wise, via LED, yellow Channel wise, via LED, red	

NoteDownload of configuration-file on www.weidmueller.comDownload of configuration-file on www.weidmueller.com



Engineering tables for PROFINET and Multiprotocol

When planning the automation of a facility, you must have a wide variety of components available.

These engineering tables list all the components required for wiring up the u-remote PROFINET / EtherNet/IP based modules.

PROFINET/ Multiprotocol modules



PROFINET/ Multiprotocol accessories



Accessories for I/O level



Markers



Protective caps



Note: *) Can be found in our latest catalogue 8, signal and power transmission, order no. 2001350000

Ordering data

Description	Type	Qty.	Order No.
PROFINET and Multiprotocol modules			
I/O-Link, 4x Type A, 4x Type B	UR67-PN-HP-8IOL-12-30M	1	2426250000
I/O-Link, 4x Type A, 4x Type B	UR67-PN-HP-8IOL-12-60M	1	2426260000
16 digital inputs	UR67-MP-HP-16DI-12-M60	1	2426270000
16 digital outputs	UR67-MP-HP-16DO-12-M60	1	2426280000
8 digital inputs and 8 digital outputs	UR67-MP-HP-8DIDO-12-60M	1	2426290000
8 digital inputs and 8 digital outputs	UR67-MP-78-8DIDO-12-60M	1	2426320000
16 digital inputs	UR67-MP-78-16DI-12-60M	1	2426300000
16 digital outputs	UR67-MP-78-16DO-12-60M	1	2426310000
PROFINET/ EtherNet/IP accessories			
PROFINET/ EtherNet/IP cables with female plug and male plug		*)
PROFINET/ EtherNet/IP cables with female plug and other side open		*)
PROFINET/ EtherNet/IP cables with male plug and other side open		*)

Accessories for I/O level

Cable for I/O level	*
M12 plug	*)

Markers

Markers for 30 mm wide modules	MF 5/10 MC NE WS	250	1954050000
Markers for 60 mm wide modules	ESG 9/20 MC NE WS	200	1027290000

Protective caps

M8 Dust cap (Sensor connections)	SAI-SK M8	50	1802760000
M12 Dust cap (Sensor connections)	SAI-SK	30	9456050000
M12 Dust cap (Bus-out and power-out)	SAI-SK-M12-UNI	20	2330260000
M12 Dust cap (Bus-in and power-in)	SAI-SK plug M12	50	1781520000

IP67

B

u-remote IP67 PROFIBUS-DP modules

M12 or 7/8" power feed; 30 & 60 mm wide housing

B

PROFIBUS is with more than 43 million devices worldwide the most common fieldbus. In the manufacturing industry PROFIBUS-DP is used for communication between the controller and sensors or actuators in the field.

PROFIBUS allows simple and cost-saving topologies, bidirectional communication, extensive information and diagnostic features and a standardized integration the devices or device functions via device description files (GSD).





Adapt flexibly to the installation situation

Modules with 30 mm or 60 mm width and three housing variations for a flexible and efficient installation space usage supports you in solving difficult installation situations.



Suitable for application requirements

Whether particularly robust due to a zinc die-cast housing and fully potted modules or particularly easy for moving Applications- with Weidmüller PROFIBUS-DP IP67 modules give you the choice!



Secure connection guaranteed

Using standardized voltage supply connections in 7/8" or M12 (A-coded) connection technique, with B-coded fieldbus connectors and M8 or M12 connectors in the I/O level, you are positioned safely in the world- not only regarding the degree of protection but also supply security!



Channel-specific diagnostics

In case of maintenance work or if a fault occurs mostly every second counts- by a channel wise diagnosis based on LEDs and marking fields by each connection point you are ideally placed!

PROFIBUS

Remote I/O for digital signal processing

**Ordering data**

Module variants	8 digital inputs 8 universal channels
Note	

Connections

Fieldbus (BUS-IN)
Fieldbus (BUS-OUT)
Supply voltage (AUX-IN)

I/O connections

Voltage supply

Operating voltage
Current consumption module electronic

Digital inputs

Input current, low
Input current, high
Input filter
Reverse polarity protection
Short-circuit protection
Status indicator
Diagnosis indication

Digital outputs

max. current-carrying capacity per output signal

Output voltage, low

Output voltage, high

Max. total current outputs

Reverse polarity protection

Short-circuit protection

Status indicator

Diagnosis indication

Fieldbus

Bus system

Transmission rate

Addressing

General data

L x W x H

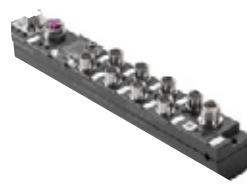
Weight

Protection degree

Operating temperature

Housing main material / UL 94 flammability rating

Certificate

UR67-PB-12-8DI-8-30K**UR67-PB-12-8DIO-8-30K**

Type	Qty.	Order No.
UR67-PB-12-8DI-8-30K	1	2426360000

Type	Qty.	Order No.
UR67-PB-12-8DIO-8-30K	1	2426330000

1x M12 plug 5-pole, B-coded	1x M12 female 5-pole, B-coded
1x M12 plug 5-pole	1x M12 plug 5-pole
8 x M8 socket 3-pole	8 x M8 socket 3-pole
24 V ((19 V DC ... 30 V DC))	24 V ((19 V DC ... 30 V DC))
typ. 65 mA	typ. 65 mA
< 15 mA in accordance with EN 61131-2 Type 1	< 15 mA in accordance with EN 61131-2 Type 1
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
1 ms	1 ms
Yes	Yes
Yes	Yes
Channel wise, yellow	Channel wise, yellow
Channel wise, via LED, red	Channel wise, via LED, red
0.5 A	0.5 A
min. (U _L -1)	min. (U _L -1)
max. 2 V	max. 2 V
4 A	4 A
Yes	Yes
Yes	Yes
Channel wise, yellow	Channel wise, yellow
Channel wise, via LED, red	Channel wise, via LED, red
Profibus-DP	Profibus-DP
Max. 12 Mbit/s (automatic detection)	Max. 12 Mbit/s (automatic detection)
Via rotary coding switch (1 - 126)	Via rotary coding switch (1 - 126)
205.4 mm / 30 mm / 40.4 mm	205.4 mm / 30 mm / 40.4 mm
200 g	200 g
IP67	IP67
-10 °C...60 °C	-10 °C...60 °C
PBT / UL 94	PBT / UL 94
CE, cULus	CE, cULus

NoteDownload of GSD-file on www.weidmueller.comDownload of GSD-file on www.weidmueller.com

PROFIBUS

Remote I/O for digital signal processing

**Ordering data**

Module variants	16 digital inputs 16 universal channels
Note	

Connections

Fieldbus (BUS-IN)	1x M12 plug 5-pole, B-coded
Fieldbus (BUS-OUT)	1x M12 female 5-pole, B-coded
Supply voltage (AUX-IN)	1x 7/8" plug 5-pole
Supply voltage (AUX-OUT)	1x 7/8" socket 5-pole
I/O connections	8 x M12 socket 5-pole, A-coded

Voltage supply

Operating voltage	24 V (19 V DC ... 30 V DC)
Current consumption module electronic	typ. 70 mA

Digital inputs

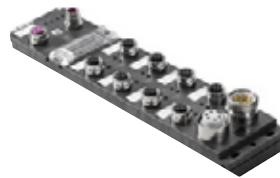
Input current, low	< 15 mA in accordance with EN 61131-2 Type 1
Input current, high	2 mA to 15 mA in accordance with EN 61131-2 Type 1
Input filter	1 ms
Reverse polarity protection	Yes
Short-circuit protection	Yes
Overload protection	Yes
Status indicator	Channel wise, yellow
Diagnosis indication	Channel wise, via LED, red, green

Digital outputs

max. current-carrying capacity per output signal	< 15 mA in accordance with EN 61131-2 Type 1
Output voltage, low	2 mA to 15 mA in accordance with EN 61131-2 Type 1
Output voltage, high	1 ms
Max. total current outputs	Yes
Reverse polarity protection	Yes
Short-circuit protection	Yes
Overload protection	Channel wise, yellow
Status indicator	Channel wise, via LED, red, green

Fieldbus

Bus system	Profibus-DP
Transmission rate	Max. 12 Mbit/s (automatic detection)
Addressing	Via rotary coding switch (1 - 126)
General data	
L x W x H	243 mm / 60 mm / 39.5 mm
Weight	380 g
Protection degree	IP67
Operating temperature	-10 °C...60 °C
Housing main material / UL 94 flammability rating	PBT / UL 94
Certificate	CE, cULus

Note**UR67-PB-78-16DI-12-60K****UR67-PB-78-16DIO-12-60K**

Type	Qty.	Order No.
UR67-PB-78-16DI-12-60K	1	2426370000

Type	Qty.	Order No.
UR67-PB-78-16DIO-12-60K	1	2426340000

1x M12 plug 5-pole, B-coded	1x M12 plug 5-pole, B-coded
1x M12 female 5-pole, B-coded	1x M12 female 5-pole, B-coded
1x 7/8" plug 5-pole	1x 7/8" plug 5-pole
1x 7/8" socket 5-pole	1x 7/8" socket 5-pole
8 x M12 socket 5-pole, A-coded	8 x M12 socket 5-pole, A-coded

24 V (19 V DC ... 30 V DC)	24 V (19 V DC ... 30 V DC)
typ. 70 mA	typ. 70 mA
< 15 mA in accordance with EN 61131-2 Type 1	< 15 mA in accordance with EN 61131-2 Type 1
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
1 ms	1 ms
Yes	Yes
Yes	Yes
Yes	Yes
Channel wise, yellow	Channel wise, yellow
Channel wise, via LED, red, green	Channel wise, via LED, red, green
1.6 A	1.6 A
max. 2 V	max. 2 V
min. (U _l - 1V)	min. (U _l - 1V)
9 A	9 A
Yes	Yes
Yes	Yes
Yes	Yes
Channel wise, yellow	Channel wise, yellow
Channel wise, via LED, red, green	Channel wise, via LED, red, green

PROFIBUS

Remote I/O for digital signal processing

**UR67-PB-78-16DI-12-60M****UR67-PB-78-16DO-12-60M****Ordering data**

Module variants	16 digital inputs 16 digital outputs
Note	

Type	Qty.	Order No.
UR67-PB-78-16DI-12-60M	1	2426390000

Type	Qty.	Order No.
UR67-PB-78-16DO-12-60M	1	2426400000

Connections

Fieldbus (BUS-IN)

Fieldbus (BUS-OUT)

Supply voltage (AUX-IN)

Supply voltage (AUX-OUT)

I/O connections

Voltage supply

Operating voltage

Current consumption module electronic

Digital inputs

Input current, low

Input current, high

Input filter

Reverse polarity protection

Short-circuit protection

Overload protection

Status indicator

Diagnosis indication

Digital outputs

max. current-carrying capacity per output signal

Output voltage, low

Output voltage, high

Max. total current outputs

Reverse polarity protection

Short-circuit protection

Overload protection

Status indicator

Diagnosis indication

Fieldbus

Bus system

Transmission rate

Addressing

System integration

General data

L x W x H

Weight

Protection degree

Operating temperature

Housing main material / UL 94 flammability rating

Certificate

Connections

1x M12 plug 5-pole, B-coded

1x M12 female 5-pole, B-coded

1x 7/8" plug 5-pole

1x 7/8" socket 5-pole

8 x M12 socket 5-pole, A-coded

24 V (18 V DC ... 30 V DC)

typ. 60 mA

< 15 mA in accordance with EN 61131-2 Type 1

2 mA to 15 mA in accordance with EN 61131-2 Type 1

3 ms

Yes

Yes

Yes

Channel wise, yellow, white

Channel wise, via LED, red

Profibus-DP

Max. 12 Mbit/s (automatic detection)

Via rotary coding switch (1 - 126)

GSD file

264.7 mm / 59.6 mm / 31 mm

605 g

IP67

-10 °C...60 °C

Zinc diecast / UL 94

CE, cULus

Connections

1x M12 plug 5-pole, B-coded

1x M12 female 5-pole, B-coded

1x 7/8" plug 5-pole

1x 7/8" socket 5-pole

8 x M12 socket 5-pole, A-coded

24 V (18 V DC ... 30 V DC)

typ. 60 mA

1.6 A

max. 2 V

min. (U_L - 1V)

9 A

Yes

Yes

Channel wise, yellow, white

Channel wise, via LED, red

Profibus-DP

Max. 12 Mbit/s (automatic detection)

Via rotary coding switch (1 - 126)

GSD file

264.7 mm / 59.6 mm / 31 mm

605 g

IP67

-10 °C...60 °C

Zinc diecast / UL 94

CE, cULus

NoteDownload of GSD-file on www.weidmueller.comDownload of GSD-file on www.weidmueller.com

PROFIBUS

Remote I/O for digital signal processing

**UR67-PB-78-8DIDO-12-60M****Ordering data**

Module variants	8 digital inputs and 8 digital outputs
Note	

Type	Oty.	Order No.
UR67-PB-78-8DIDO-12-60M	1	2426380000

Connections

Fieldbus (BUS-IN)	1x M12 plug 5-pole, B-coded
Fieldbus (BUS-OUT)	1x M12 female 5-pole, B-coded
Supply voltage (AUX-IN)	1x 7/8" plug 5-pole
Supply voltage (AUX-OUT)	1x 7/8" socket 5-pole
I/O connections	8 x M12 socket 5-pole, A-coded

Voltage supply

Operating voltage	24 V ((18 V DC ... 30 V DC))
Current consumption module electronic	typ. 60 mA

Digital inputs

Input current, low	< 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
Input filter	3 ms
Reverse polarity protection	Yes
Short-circuit protection	Yes
Overload protection	Yes
Status indicator	Channel wise, yellow
Diagnosis indication	Channel wise, via LED, red

Digital outputs

max. current-carrying capacity per output signal	1.6 A
Output voltage, low	max. 2 V
Output voltage, high	min. (U ₁ - 1V)
Max. total current outputs	9 A
Reverse polarity protection	Yes
Short-circuit protection	Yes
Overload protection	Yes
Status indicator	Channel wise, yellow
Diagnosis indication	Channel wise, via LED, red

Fieldbus

Bus system	Profibus-DP
Transmission rate	Max. 12 Mbit/s (automatic detection)
Addressing	Via rotary coding switch (1 - 126)
System integration	GSD file

General data

L x W x H	264.7 mm / 59.6 mm / 31 mm
Weight	605 g
Protection degree	IP67
Operating temperature	-10 °C...60 °C
Housing main material / UL 94 flammability rating	Zinc diecast / UL 94
Certificate	CE, cULus

NoteDownload of GSD-file on www.weidmueller.com



Engineering tables for PROFIBUS-DP

B

When planning the automation of a facility, you must have a wide variety of components available.

These engineering tables list all the components required for wiring up the u-remote PROFIBUS modules.

PROFIBUS modules



PROFIBUS accessories



Accessories for I/O level



Markers



Protective caps



Ordering data

Description	Type	Qty.	Order No.
PROFIBUS modules			
8 digital inputs	UR67-PB-12-8DI-8-30K	1	2426360000
8 universal channels	UR67-PB-12-8DIO-8-30K	1	2426330000
16 digital inputs	UR67-PB-78-16DI-12-60K	1	2426370000
16 universal channels	UR67-PB-78-16DIO-12-60K	1	2426340000
16 digital inputs	UR67-PB-78-16DI-12-60M	1	2426390000
16 digital outputs	UR67-PB-78-16DO-12-60M	1	2426400000
8 digital inputs and 8 digital outputs	UR67-PB-78-8DIDO-12-60M	1	2426380000

PROFIBUS accessories

PROFIBUS cables with female plug and male plug	*)
PROFIBUS cables with female plug and other side open	*)
PROFIBUS cables with male plug and other side open	*)

Accessories for I/O level

Cables for I/O level	*)
M12 plug	*)
M8 plug	*)

Markers

Markers for 30 mm wide modules	ESG 5/10 MC NE WS	400	1919940000
Markers for 60 mm wide modules	ESG 9/20 MC NE WS	200	1609940000

Protective caps

M8 Dust cap (Sensor connections)	SAI-SK M8	50	1802760000
M12 Dust cap (Sensor connections)	SAI-SK	30	9456050000
M12 Dust cap (Bus-out and power-out)	SAI-SK-M12-UNI	20	2330260000
M12 Dust cap (Bus-in and power-in)	SAI-SK plug M12	50	1781520000

Note: *) Can be found in our latest catalogue 8, signal and power transmission, order no. 2001350000

IP67

B

SAI Active Universal

B

Compact, basic versions of the Remote I/O system with IP67 protection

The SAI Active Universal consists of basic, compact designed variants that include a variety of modules for digital and analogue inputs and outputs. The housing has a sturdy construction in compliance with strict industrial requirements. It is resistant against aggressive materials, vibration, shock, temperature, water and dust.

The high quality connection system uses conventional, standardised M8 and M12 connectors with standards-compliant coding. They ensure a reliable wiring process with less risk of errors. Two M12 connections for the fieldbus allow for a continuous bus installation without any additional T-distributor. The functional earth connection is automatically created when installing on a metallic earthed base.





4 independent voltage circuits

The modules can be supplied with up to four different voltage potentials. The module voltage can be simultaneously used for the inputs. In addition, up to three feed points are available for outputs; these can be switched off individually depending on the application requirements. Plug in cross connectors can be used to merge voltage potentials on the module.



Efficient diagnostics and status alerts

The status of the I/Os is shown directly on the module using arrow icons. The arrows point to the label and the plug in position. Up to seven status LEDs are available for displaying additional information about the power supply, fieldbus status and group diagnostics. The information is simultaneously transmitted to the controller unit via the bus system.

DeviceNet™

CANopen

Freedom of choice

Total compliance with many industrial fieldbus standards: this permits integration with all conventional controllers so that the modules can be used in practically all applications. SAI Active Universal supports CANopen and DeviceNet™ communication protocols.

M8
Analogue
Digital
M12

A wide variety of variants

All SAI Active modules with digital inputs or digital outputs are optionally available with standard M8 or M12 connection systems. For modules in the 16DI/8DO series, the configuration can be customised to fit the application so that anywhere between 16DI to 8DI/8DO can be used. Output cables with up to 2 A per channel are used to connect almost any load. Analogue modules can be configured flexibly for the current of voltage outputs.

CANopen

Remote I/O for digital signal processing

**Ordering data**

Module variants
16 Digital In; 16 Digital In / 8 Digital Out
16 Digital In; 16 Digital In / 8 Digital Out

Note

Connections
Fieldbus (BUS-IN)
Fieldbus (BUS-OUT)
Supply voltage (AUX-IN)
Supply voltage (AUX-OUT)
I/O connections
Voltage supply
Operating voltage
Contact load
Max. total current module
Digital inputs
Permitted input voltage
Input voltage, low
Input voltage, high
Input current, low
Input current, high
Input filter
Digital outputs
max. current-carrying capacity per output signal
Switching frequency load (resistive / inductive / inrush)
Short-circuit proof
Output voltage, low
Output voltage, high
Max. total current of outputs
Fieldbus
Bus system
Transmission rate
Addressing
System integration
General data
L x W x H
Weight
Protection degree
Operating temperature
Storage temperature
Housing main material / UL 94 flammability rating
Certificate

SAI-AU

cULus
LISTED
IND.CNTL&Q
1YDQ

SAI-AU

cULus
LISTED
IND.CNTL&Q
1YDQ

Type	Qty.	Order No.
SAI-AU M8 CAN 16DI/8DO	1	1906690000
SAI-AU M12 CAN 16DI/8DO	1	1906660000

Type	Qty.	Order No.
SAI-AU M8 CAN 16DI	1	1906680000
SAI-AU M12 CAN 16DI	1	1906650000

1x M12 plug 5-pole, A-coded
1x M12 female 5-pole, A-coded
2x M12 plug 5-pole, A-coded
16 x M8 socket 3-pole / 8 x M12 socket 5-pole, A-coded
24 V ((18 V DC ... 30 V DC))
Per PIN max. 4 A
8 A
-30 V to +30 V (protected against polarity reversal)
<5 V in accordance with EN 61131-2 Type 1
>15 V in accordance with EN 61131-2 Type 1
< 15 mA in accordance with EN 61131-2 Type 1
2 mA to 15 mA in accordance with EN 61131-2 Type 1
3 ms
0.5 A, 2 A
max. 100 Hz / max. 1 Hz / max. 8 Hz
Yes, cut-off for short circuit and error message
0 V DC
Supply voltage less 0.7 V DC
7 A, 8 A
CANopen
Max. 1 Mbit/s (automatic detection)
Via rotary coding switch (1 – 127)
EDS file (Device-specific for each module)
210 mm / 54 mm / 32 mm
< 400 g
IP67
0 °C...60 °C
-25 °C...85 °C
Pocan, PBT / V-O
CE, cULus

Download of EDS-file on www.weidmueller.com

Note

Download of EDS-file on www.weidmueller.com

CANopen

Remote I/O for digital and analogue signal processing

**SAI-AU****Ordering data**

Module variants	Type	Oty.	Order No.
4 Analogue In / 2 Analogue Out / 4 Digital In	SAI-AU M12 CAN AI/AO/DI	1	1906670000

Note**Connections**

Fieldbus (BUS-IN)
Fieldbus (BUS-OUT)
Supply voltage (AUX-IN)
Supply voltage (AUX-OUT)
I/O connections

Voltage supply

Operating voltage
Contact load
Max. total current module

Digital inputs

Permitted input voltage
Input voltage, low
Input voltage, high
Input current, low
Input current, high
Input filter

Digital outputs

max. current-carrying capacity per output signal
Switching frequency load (resistive / inductive / inrush)
Short-circuit proof
Output voltage, low
Output voltage, high
Max. total current of outputs

Fieldbus

Bus system
Transmission rate
Addressing
System integration

General data

L x W x H
Weight
Protection degree
Operating temperature
Storage temperature
Housing main material / UL 94 flammability rating
Certificate

Type	Oty.	Order No.
SAI-AU M12 CAN AI/AO/DI	1	1906670000

1x M12 plug 5-pole, A-coded
1x M12 female 5-pole, A-coded
1x M12 plug 5-pole, A-coded
1x M12 female 5-pole, A-coded

24 V ((18 V DC ... 30 V DC))
Per PIN max. 4 A
8 A

-30 V to +30 V (protected against polarity reversal)
<5 V in accordance with EN 61131-2 Type 1
>15 V in accordance with EN 61131-2 Type 1
< 15 mA in accordance with EN 61131-2 Type 1
2 mA to 15 mA in accordance with EN 61131-2 Type 1
3 ms

CANopen
Max. 1 Mbit/s (automatic detection)
Via rotary coding switch (1 – 127)
EDS file (Device-specific for each module))

210 mm / 54 mm / 32 mm
< 400 g
IP67
0 °C...60 °C
-25 °C...85 °C
Pocan, PBT / V-0
CE, cULus

Note

Download of EDS-file on www.weidmueller.com

Engineering tables for CANopen

When planning the automation of a facility, you must have a wide variety of components available.

These engineering tables list all the components required for wiring up the SAI Active modules.

B

CANopen modules



CANopen accessories



Sensor/actuator accessories



Markers



Protective caps



Ordering data

Description	Type	Qty.	Order No.
CANopen modules			
16 digital inputs	SAI-AU M12 CAN 16DI	1	1906650000
8 digital inputs and 8 universal channels	SAI-AU M12 CAN 16DI/8DO	1	1906660000
4 analogue inputs, 2 analogue outputs, 4 digital inputs	SAI-AU M12 CAN AI/AO/DI	1	1906670000
16 digital inputs	SAI-AU M8 CAN 16DI	1	1906680000
8 digital inputs and 8 universal channels	SAI-AU M8 CAN 16DI/8DO	1	1906690000

CANopen accessories

CANopen cables with female plug and male plug	*)		
CANopen cables with female plug and other side open	*)		
CANopen cables with male plug and other side open	*)		
CANopen plug-in connector	*)		
CANopen terminating resistor	SAIEND CAN-M12 5P A-COD	1	1784760000

Sensor/actuator accessories

Sensor/actuator cables	*)
Sensor/actuator plugs	*)

Markers

Semi-transparent markers for PrintJet printing	ESG 8/13.5/43.3 SAI AU	5	1912130000
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Protective caps

M8 Dust cap (Sensor connections)	SAI-SK M8	50	1802760000
M12 Dust cap (Sensor connections)	SAI-SK	30	9456050000
M12 Dust cap (Bus-out and power-out)	SAI-SK-M12-UNI	20	2330260000
M12 Dust cap (Bus-in and power-in)	SAI-SK plug M12	50	1781520000

Note: *) Can be found in our latest catalogue 8, signal and power transmission, order no. 2001350000

IP67

B

DeviceNet™

Remote I/O for digital signal processing

**Ordering data****Module variants**

- 16 Digital In; 16 Digital In / 8 Digital Out
- 16 Digital In; 16 Digital In / 8 Digital Out

Note**SAI-AU****SAI-AU****Connections**

Fieldbus (BUS-IN)

Fieldbus (BUS-OUT)

Supply voltage (AUX-IN)

Supply voltage (AUX-OUT)

I/O connections

Voltage supply

Operating voltage

Contact load

Max. total current module

Digital inputs

Permitted input voltage

Input voltage, low

Input voltage, high

Input current, low

Input current, high

Input filter

Digital outputs

max. current-carrying capacity per output signal

Switching frequency load (resistive / inductive / inrush)

Short-circuit proof

Output voltage, low

Output voltage, high

Max. total current of outputs

Fieldbus

Bus system

Transmission rate

Addressing

System integration

General data

L x W x H

Weight

Protection degree

Operating temperature

Storage temperature

Housing main material / UL 94 flammability rating

Certificate

Type	Qty.	Order No.
SAI-AU M8 DN 16DI	1	1906730000
SAI-AU M12 DN 16DI	1	1906700000

Type	Qty.	Order No.
SAI-AU M8 DN 16DI/8DO	1	1906740000
SAI-AU M12 DN 16DI/8DO	1	1906710000

Note**Note****Note**

DeviceNet™

Remote I/O for digital and analogue signal processing

**SAI-AU****Ordering data**

Module variants	Type	Oty.	Order No.
4 Analogue In / 2 Analogue Out / 4 Digital In	SAI-AU M12 DN AI/AO/DI	1	1906720000

Note**Connections**

Fieldbus (BUS-IN)

Fieldbus (BUS-OUT)

Supply voltage (AUX-IN)

Supply voltage (AUX-OUT)

I/O connections

Voltage supply

Operating voltage

Contact load

Max. total current module

Digital inputs

Permitted input voltage

Input voltage, low

Input voltage, high

Input current, low

Input current, high

Input filter

Analogue inputs

Measurement range [analogue input]

Maximum input voltage in relation to GND

Input resistance (load)

Max. input current (differential)

Short-circuit proof [analogue input]

Resolution [analogue input] / Precision [analogue input]

Analogue outputs

Measurement range [analogue output]

Output interval

Short-circuit proof [analogue output]

Resolution [analogue output] / Precision [analogue output]

Fieldbus

Bus system

Transmission rate

Addressing

System integration

General data

L x W x H

Weight

Protection degree

Operating temperature

Storage temperature

Housing main material / UL 94 flammability rating

Certificate

Type	Oty.	Order No.
SAI-AU M12 DN AI/AO/DI	1	1906720000

1x M12 plug 5-pole, A-coded
1x M12 female 5-pole, A-coded

1x M12 plug 5-pole, A-coded
1x M12 female 5-pole, A-coded

8 x M12 socket 5-pole, A-coded

24 V ((18 V DC ... 30 V DC))
Per PIN max. 4 A

8 A

-30 V to +30 V (protected against polarity reversal)
<5 V in accordance with EN 61131-2 Type 1

>15 V in accordance with EN 61131-2 Type 1

< 15 mA in accordance with EN 61131-2 Type 1

2 mA to 15 mA in accordance with EN 61131-2 Type 1

3 ms

-10 V ... +10 V, 0 V ... 10V, 0 ... 20 mA, 4...20 mA
35 V

<125 Ohm

-50 mA to +50 mA (protected against polarity reversal)

Yes

12-bit / < 0.2 %

-10 V ... +10 V, 0 V ... 10V, 0 ... 20 mA, 4...20 mA

5 ms to 250 ms (can be configured)

Yes

12-bit / < 0.2 %

DeviceNet

Max. 500 kBit/s (automatic detection)

Via rotary coding switch (0 – 63)

EDS file ((Device-specific for each module))

210 mm / 54 mm / 32 mm

< 400 g

IP67

0 °C...60 °C

-25 °C...85 °C

Pocan, PBT / V-0

CE, cULus

Note

Engineering tables for DeviceNet™

IP67

B

When planning the automation of a facility, you must have a wide variety of components available.

These engineering tables list all the components required for wiring up the SAI Active modules.

DeviceNet™ modules



DeviceNet™ accessories



Sensor/actuator accessories



Markers



Protective caps



Ordering data

Description	Type	Qty.	Order No.
DeviceNet™ modules			
16 digital inputs	SAI-AU M12 DN 16DI	1	1906700000
8 digital inputs and 8 universal channels	SAI-AU M12 DN 16DI/8DO	1	1906710000
4 analogue inputs, 2 analogue outputs, 4 digital inputs	SAI-AU M12 DN AI/AO/DI	1	1906720000
16 digital inputs	SAI-AU M8 DN 16DI	1	1906730000
8 digital inputs and 8 universal channels	SAI-AU M8 DN 16DI/8DO	1	1906740000

DeviceNet™ accessories

DeviceNet™ cables with female plug and male plug	*)		
DeviceNet™ cables with female plug and other side open	*)		
DeviceNet™ cables with male plug and other side open	*)		
DeviceNet™ plug-in connector	*)		
DeviceNet™ terminating resistor	SAIEND CAN-M12 5P A-COD	1	1784760000

Sensor/actuator accessories

Sensor/actuator cables	*)
Sensor/actuator plugs	*)

Markers

Semi-transparent markers for PrintJet printing	ESG 8/13.5/43.3 SAI AU	5	1912130000
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Protective caps

M8 Dust cap (Sensor connections)	SAI-SK M8	50	1802760000
M12 Dust cap (Sensor connections)	SAI-SK	30	9456050000
M12 Dust cap (Bus-out and power-out)	SAI-SK-M12-UNI	20	2330260000
M12 Dust cap (Bus-in and power-in)	SAI-SK plug M12	50	1781520000

Note: *) Can be found in our latest catalogue 8, signal and power transmission, order no. 2001350000

IP67

B

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. 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 SAI fieldbus module.

In addition to the digital input and output modules, we also offer counter unit modules, thermal modules, RTD 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.





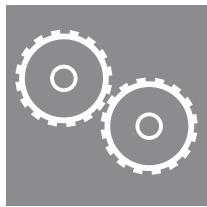
Cost-effective Subbus system

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.

Gateway modules with digital inputs
DeviceNet
SAI-AU GW

UR20-1COM-SAI-PRO

Ordering data

Module variants	16 Digital In
Note	

Type	Qty.	Order No.
SAI-AU M12 DN GW 16DI	1	1938570000

Type	Qty.	Order No.
UR20-1COM-SAI-PRO	1	2007430000

Note: Technical data for this product can be found in Chapter A

Connections

- Fieldbus (BUS-IN)
- Fieldbus (BUS-OUT)
- Supply voltage (AUX-IN)
- Connection to Subbus (SUB-OUT)
- I/O connections

- 1x M12 plug 5-pole, A-coded
- 1x M12 female 5-pole, A-coded
- 1x M12 plug 5-pole, A-coded
- 1 x M8 female 4-pole, A-coded
- 8 x M12 socket 5-pole, A-coded

Voltage supply

- Operating voltage
- Contact load
- Max. total current module

- 24 V ((18 V DC ... 30 V DC))
- Per PIN max. 4 A
- 8 A

Digital inputs

- Permitted input voltage
- Input voltage, low
- Input voltage, high
- Input current, low
- Input current, high
- Input filter

- 30 V to +30 V (protected against polarity reversal)
- <5 V in accordance with EN 61131-2 Type 1
- >15 V in accordance with EN 61131-2 Type 1
- < 15 mA in accordance with EN 61131-2 Type 1
- 2 mA to 15 mA in accordance with EN 61131-2 Type 1
- 1 ms, 3 ms, 5 ms, 10 ms, configurable

Fieldbus

- Bus system
- Transmission rate
- Addressing
- System integration

- DeviceNet
- Max. 500 kBit/s (automatic detection)
- Via rotary coding switch (0 – 63)
- EDS file

General data

- L x W x H
- Weight
- Protection degree
- Operating temperature
- Storage temperature
- Housing main material / UL 94 flammability rating
- Certificate

- 210 mm / 54 mm / 32 mm
- < 350 g
- IP67
- 0 °C...60 °C
- 25 °C...85 °C
- Pocan, PBT / V-0
- CE, cULus

Note

Engineering table for DeviceNet™

When planning the automation of a facility, you must have a wide variety of components available.

These engineering tables list all the components required for wiring up the SAI Active modules.

DeviceNet™ modules



DeviceNet™ accessories



Subbus cables / terminating resistor



Sensor/actuator accessories



Markers



Protective caps



Note: *) Can be found in our latest catalogue 8, signal and power transmission, order no. 2001350000

Ordering data

Description	Type	Qty.	Order No.
DeviceNet™ modules			
DeviceNet™ Gateway, 16 digital inputs	SAI-AU M12 DN GW 16DI	1	1938570000
Subbus module, 8 digital inputs	SAI-AU M12 SB 8DI	1	1938610000
Subbus module, 8 universal channels	SAI-AU M12 SB 8 DIO	1	1938640000
Subbus module, 8 digital inputs	SAI-AU M8 SB 8DI	1	1938600000
Subbus module, 8 universal channels	SAI-AU M8 SB 8 DIO	1	1938630000
Subbus module, 4 analogue inputs	SAI-AU M12 SB 4AI	1	1938690000
Subbus module, 4 analogue outputs	SAI-AU M12 SB 4AO	1	1938700000
Subbus module, 4 analogue PT100 inputs	SAI-AU M12 SB 4PT100	1	1938710000
Subbus module, 4 analogue Thermo inputs	SAI-AU M12 SB 4Thermo	1	1938720000
Subbus module, 2 counter inputs	SAI-AU M12 SB 2Counter	1	1938730000
Subbus modules, 8 digital 2 A outputs	SAI-AU M8 SB 8DO 2A	1	1938660000
Subbus modules, 8 digital 2 A outputs	SAI-AU M12 SB 8DO 2A	1	1938680000

DeviceNet™ accessories

DeviceNet™ cables with female plug and male plug	*)		
DeviceNet™ cables with female plug and other side open	*)		
DeviceNet™ cables with male plug and other side open	*)		
DeviceNet™ plug-in connector			
DeviceNet™ terminating resistor	SAIEND CAN-M12 5P A-COD	1	1784760000

Subbus cables / terminating resistor

Subbus cables	*)		
Subbus terminating resistor	SAIEND CAN M8 4P	1	1955340000

Sensor/actuator accessories

Sensor-actuator cables	*)
Sensor-actuator plugs	*)

Markers

Semi-transparent markers for PrintJet printing	ESG 8/13.5/43.3 SAI AU	5	1912130000
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Protective caps

M8 Dust cap (Sensor connections)	SAI-SK M8	50	1802760000
M12 Dust cap (Sensor connections)	SAI-SK	30	9456050000
M12 Dust cap (Bus-out and power-out)	SAI-SK-M12-UNI	20	2330260000
M12 Dust cap (Bus-in and power-in)	SAI-SK plug M12	50	1781520000

Subbus modules with digital inputs/outputs

SAI-AU Digital



SAI-AU Digital



Ordering data

Module variants	Type	Qty.	Order No.
8 Digital In; 8 Digital In / 8 Digital Out	SAI-AU M8 SB 8DI	1	1938600000
8 Digital In; 8 Digital In / 8 Digital Out	SAI-AU M12 SB 8DI	1	1938610000
8 Digital Out 2A			
8 Digital Out 2A			
Note			
Connections			
Supply voltage (AUX-IN)	1 x M8 plug 4-pole, A-coded		
Connection to Subbus (SUB-IN)	1 x M8 female 4-pole, A-coded		
Connection to Subbus (SUB-OUT)	8 x M8 socket 3-pole		
I/O connections			
Voltage supply			
Operating voltage	24 V ((18 V DC ... 30 V DC))		
Contact load			
Max. total current module			
Digital inputs			
Permitted input voltage	-30 V to +30 V (protected against polarity reversal)		
Input voltage, low	<5 V in accordance with EN 61131-2 Type 1		
Input voltage, high	>15 V in accordance with EN 61131-2 Type 1		
Input current, low	< 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		
Input filter	1 ms, 3 ms, 5 ms, 10 ms, configurable		
Separation of potentials to module electronics [digital inputs]	none		
Digital outputs			
max. current-carrying capacity per output signal			
Separation of potentials to module electronics [digital outputs]			
Switching frequency, resistive load			
Switching frequency, inductive load			
Switching frequency, lamp load			
Short-circuit proof			
Output voltage, low			
Output voltage, high			
Max. total current outputs			
Fieldbus			
Bus system	Subbus		
Addressing	automatic		
System integration	automatic		
General data			
L x W x H	155 mm / 30 mm / 32 mm		
Weight	< 200 g		
Protection degree	IP67		
Operating temperature	0 °C...60 °C		
Storage temperature	-25 °C...85 °C		
Housing main material / UL 94 flammability rating	Pocan, PBT / 5VA		
Certificate	CE, cULus		
Note			

**Subbus modules with
analogue inputs/outputs**

SAI-AU analogue



SAI-AU Analog



Ordering data

Module variants	4 Analogue Out / 4 Analogue In
Note	

Type	Qty.	Order No.
SAI-AU M12 SB 4AO	1	1938700000

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

Connections

Connection to Subbus (SUB-IN)
Connection to Subbus (SUB-OUT)

I/O connections

Voltage supply

Operating voltage

Analogue inputs

Measurement range [analogue input]

Maximum input voltage in relation to GND

Input resistance (load)

Max. input current (differential)

Short-circuit proof [analogue input]

Resolution [analogue input] / Precision [analogue input]

Analogue outputs

Measurement range [analogue output]

Output interval

Short-circuit proof [analogue output]

Resolution [analogue output] / Precision [analogue output]

Fieldbus

Bus system

Addressing

System integration

General data

L x W x H

Weight

Protection degree

Operating temperature

Storage temperature

Housing main material / UL 94 flammability rating

Certificate

Connections

1 x M8 plug 4-pole, A-coded

1 x M8 female 4-pole, A-coded

4 x M12 female, 5-pole A-coded

24 V ((18 V DC ... 30 V DC))

-10 V ... +10 V, 0 V ... 10V, 0 ... 20 mA, 4...20 mA

5 ms to 250 ms (can be configured)

Yes

12-bit / < 0.2 %

Subbus

automatic

automatic

155 mm / 30 mm / 32 mm

< 200 g

IP67

0 °C...60 °C

-25 °C...85 °C

Pocan, PBT / 5VA

CE, cULus

Connections

1 x M8 plug 4-pole, A-coded

1 x M8 female 4-pole, A-coded

4 x M12 female, 5-pole A-coded

24 V ((18 V DC ... 30 V DC))

-10 V ... +10 V, 0 V ... 10V, 0 ... 20 mA, 4...20 mA

35 V

<125 Ohm

-50 mA to +50 mA (protected against polarity reversal)

Yes

12-bit / < 0.2 %

Subbus

automatic

automatic

155 mm / 30 mm / 32 mm

< 200 g

IP67

0 °C...60 °C

-25 °C...85 °C

Pocan, PBT / 5VA

CE, cULus

Note

Subbus modules with functional inputs**SAI-AU Counter****Ordering data**

Module variants	2 counter inputs / 2 gate outputs
Note	

Type	Oty.	Order No.
SAI-AU M12 SB 2Counter	1	1938730000

Connections

Supply voltage (AUX-IN)
Connection to Subbus (SUB-IN)
Connection to Subbus (SUB-OUT)
I/O connections

1x M12 plug 5-pole, A-coded
1 x M8 plug 4-pole, A-coded
1 x M8 female 4-pole, A-coded
4 x M12 female, 5-pole A-coded

Voltage supply

Operating voltage
Contact load

24 V ((18 V DC ... 30 V DC))
Per PIN max. 4 A

Functional inputs

Counting breadth
Switching frequency
Number of inputs
Fieldbus
Bus system
Addressing
System integration
General data
L x W x H
Weight
Protection degree
Operating temperature
Storage temperature
Housing main material / UL 94 flammability rating
Certificate

32 Bit
100 kHz
2 x enables, 2 x counters, 2 x count directions
Subbus
automatic
automatic
180 mm / 30 mm / 32 mm
< 200 g
IP67
0 °C...60 °C
-25 °C...85 °C
Pocan, PBT / 5VA
CE, cULus

Note

Subbus modules with functional inputs**SAI-AU Thermo****Ordering data**

Module variants	4 thermal inputs
Note	

Type	Qty.	Order No.
SAI-AU M12 SB 4Thermo	1	1938720000

Connections

Connection to Subbus (SUB-IN)
Connection to Subbus (SUB-OUT)

I/O connections

Voltage supply

Operating voltage

Functional inputs

Sensor
Temperature range
Resolution
Conversion time
Measurement error
Input filter
cold junction compensation

Fieldbus

Bus system
Addressing
System integration

General data

L x W x H
Weight
Protection degree
Operating temperature
Storage temperature
Housing main material / UL 94 flammability rating
Certificate

1 x M8 plug 4-pole, A-coded

1 x M8 female 4-pole, A-coded

4 x M12 female, 5-pole A-coded

24 V ((18 V DC ... 30 V DC))

Types J, K, L, B, E, N, R, S, T, U: mV readings

Typical for sensor, Preset Type K, -100 °C to 1370 °C

0.1 °C per digit

250 ms (can be configured to 70 ms)

< ± 0.5% (of measuring range limit)

configurable

External PT1000 connection on pins 1 and 3 (GND)

Subbus

automatic

automatic

155 mm / 30 mm32 mm

< 200 g

IP67

0 °C...60 °C

-25 °C...85 °C

Pocan, PBT / 5VA

CE, cULus

Note

Subbus modules with functional inputs**SAI-AU PT100****Ordering data**

Module variants	4 PT100 inputs
Note	

Type	Oty.	Order No.
SAI-AU M12 SB 4PT100	1	1938710000

Connections

Connection to Subbus (SUB-IN)
Connection to Subbus (SUB-OUT)

I/O connections

Voltage supply

Operating voltage

Functional inputs

Sensor

Resolution

Conversion time

Measurement error

Input filter

Measurement range for PT sensors

Measurement range for Ni sensors

Resistance measurement

Potentiometer

Measurement current

Fieldbus

Bus system

Addressing

System integration

General data

L x W x H

Weight

Protection degree

Operating temperature

Storage temperature

Housing main material / UL 94 flammability rating

Certificate

Connections

1 x M8 plug 4-pole, A-coded
1 x M8 female 4-pole, A-coded

4 x M12 female, 5-pole A-coded

Voltage supply

24 V ((18 V DC ... 30 V DC))

N100, N1000, N120, PT100, PT1000, PT200, PT300, PT500,
Potentiometer connection, Resistance measurement

0.1 °C per digit

250 ms (can be configured to 65 ms)

< ± 1 °C

configurable

-200 °C ... + 850 °C

-60 °C ... + 250 °C

max. 4000 Ohm

100 to 4000 Ω (three-wire connection)

Typically 0.5 mA

Fieldbus

Subbus

automatic

automatic

155 mm / 30 mm / 32 mm

< 200 g

IP67

0 °C...60 °C

-25 °C...85 °C

Pocan, PBT / 5VA

CE, cULus

Note**Note**

IP67

B

Sensor Cables u-remote

B

Weidmüller is also offering the required sensor and actuator cables as a supplement to the new, innovative u-remote system. Generally, there are two different courses of action for cabling.

- Circular plug cables assembled on one end
- Cables assembled on both ends with u-remote plug-in connectors already connected

To make things easier to understand, only the M8 and M12 cables have been shown in this diagram. Actuator cables can also be found in catalogue 8.

Standard cable lengths

The cable lengths listed under order data are all 1.5 m. To order any other standard cable lengths, simply change the last four numbers in the order number.

Additional lengths can be supplied at the request of the customer.

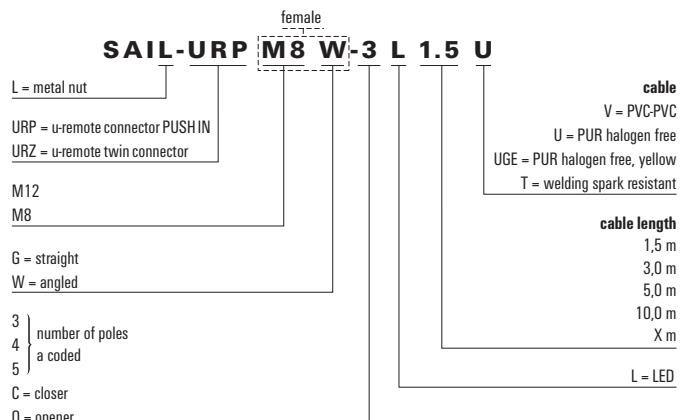
Order data

Type	Length	Order No.
	1.5 m	xxxxxx0150
	3.0 m	xxxxxx0300
	5.0 m	xxxxxx0500
	10.0 m	xxxxxx1000

The PUR cable used here is black, halogen-free and suitable for dragline cable carriers. The PVC cable is suitable for dragline cable carriers. Further technical details are available in catalogue 8.

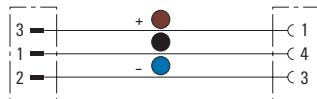
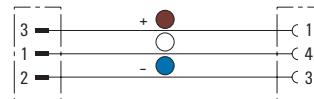
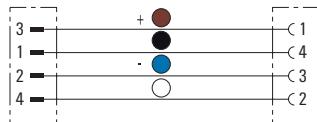
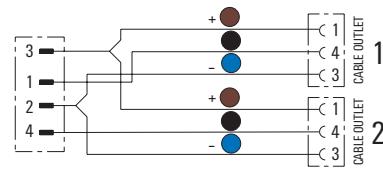
The minimum order quantity for each type of cable is 1 unit. This means that sample parts and the demand for replacement parts are also easy to manage.

Description code example



Connecting cables

u-remote plug / M12
u-remote plug / M8

Halogen-free PUR**PVC****3-pin / NO contact****NC contact****4-pin****Twin / NO contact****Technical data**

Rated current
Rated voltage
Temperature range of housing
Core cross-section
Protection degree
Contact surface
Sheath material
Insulation

Note**Ordering data****Module variants**

- NO contact / u-remote plug - M12 straight socket
- NO contact / u-remote plug - M12 angled socket
- NC contact / u-remote plug - M12 straight socket
- NC contact / u-remote plug - M12 angled socket
 - 4-pole / u-remote plug - M12 straight socket
 - 4-pole / u-remote plug - M12 angled socket
 - 3-pole / u-remote plug - M8 straight socket
 - 3-pole / u-remote plug - M8 angled socket
- 4-pole / u-remote plug - M12 angled socket - LED
- 3-pole / u-remote plug - M8 angled socket - LED

- Twin / NO contact / u-remote plug - M12 straight socket
- Twin / NO contact / u-remote plug - M12 angled socket
- Twin / 3-pole / u-remote plug - M8 straight socket
- Twin / 3-pole / u-remote plug - M8 angled socket

Note**Accessories****Mounting tool**

Tool set with torque function

Note

Type	Qty.	Order No.
SAIL-URPM12G-C1.5U	1	1475070150
SAIL-URPM12W-C1.5U	1	1475080150
SAIL-URPM12G-O-1.5U	1	1475090150
SAIL-URPM12W-O-1.5U	1	1475120150
SAIL-URPM12G-4-1.5U	1	1475130150
SAIL-URPM12W-4-1.5U	1	1475140150
SAIL-URPM8G-3-1.5U	1	1475601050
SAIL-URPM8W-3-1.5U	1	1475170150
SAIL-URPM12W-2L-1.5U	1	1475450150
SAIL-URPM8W-2L-1.5U	1	1475470150
SAIL-URZM12G-C1.5U	1	1475030150
SAIL-URZM12W-C1.5U	1	1475040150
SAIL-URZM8G-3-1.5U	1	1475050150
SAIL-URZM8W-3-1.5U	1	1475060150

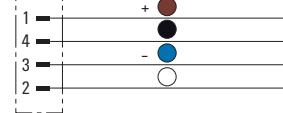
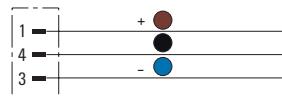
Type	Qty.	Order No.
SAIL-URPM12G-C1.5V	1	1475280150
SAIL-URPM12W-C1.5V	1	1475290150
SAIL-URPM12G-O-1.5V	1	1475300150
SAIL-URPM12W-O-1.5V	1	1475310150
SAIL-URPM12G-4-1.5V	1	1475320150
SAIL-URPM12W-4-1.5V	1	1475330150
SAIL-URPM8G-C-1.5V	1	1475340150
SAIL-URPM8W-C-1.5V	1	1475350150
SAIL-URPM12W-2L-1.5V	1	1475500150
SAIL-URPM8W-2L-1.5V	1	1475510150

M12 cables with connector at one end only**3-pin**

Female

**4-pin**

Female

**Technical data**

Rated current	4 A
Rated voltage	250 V
Temperature range of housing	-25...+85 °C
Core cross-section	0.34 mm ²
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Contact surface	Gold-plated
Sheath material	PVC
Insulation	PVC

Note**Ordering data****Female, straight**

M12 straight socket, PVC

M12 straight socket, halogen-free PUR

M12 straight socket, halogen-free PUR, yellow

M12 straight socket, halogen-free PUR, resistant to welding beads

Female, angled

M12 angled socket, PVC

M12 angled socket, halogen-free PUR

M12 angled socket, halogen-free PUR, yellow

M12 angled socket, halogen-free PUR, resistant to welding beads

Note**Accessories****Mounting tool**

Tool set with torque function

Note

Type	Qty.	Order No.
SAIL-M12BG-3-1.5V	1	1925570150
SAIL-M12BG-3-1.5U	1	9457820150
SAIL-M12BG-3-1.5UGE	1	1092910150
SAIL-M12BG-3-1.5T	1	1968590150

Type	Qty.	Order No.
SAIL-M12BG-4-1.5T	1	1968580150
SAIL-M12BG-4-1.5U	1	9457730150
SAIL-M12BG-4-1.5UGE	1	1092920150
SAIL-M12BG-4-1.5V	1	1925580150

Type	Qty.	Order No.
SAIL-M12BW-3-1.5V	1	1925630150
SAIL-M12BW-3-1.5U	1	9457320150
SAIL-M12BW-3-1.5UGE	1	1092940150
SAIL-M12BW-3-1.5T	1	1968560150

Type	Qty.	Order No.
SAIL-M12BW-4-1.5V	1	1925640150
SAIL-M12BW-4-1.5U	1	9457740150
SAIL-M12BW-4-1.5UGE	1	1092960150
SAIL-M12BW-4-1.5T	1	1968570150

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

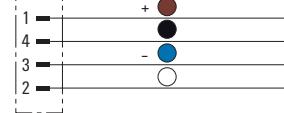
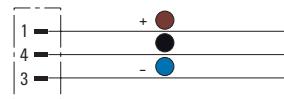
Type	Qty.	Order No.
Screwty Set -DM	1	1920000000

M8 cables with connector at one end only**3-pin**

Female

**4-pin**

Female

**Technical data**

Rated current	4 A
Rated voltage	60 V
Temperature range of housing	-25...+85 °C
Core cross-section	0.25 mm ²
Protection degree	IP65, IP66, IP67, IP68, when screwed in
Contact surface	Gold-plated
Sheath material	PVC
Insulation	PVC

Note**Ordering data****Female, straight**

M8 straight socket, PVC
M8 straight socket, halogen-free PUR
M8 straight socket, halogen-free PUR, yellow

Female, angled

M8 angled socket, PVC
M8 angled socket, halogen-free PUR
M8 angled socket, halogen-free PUR, yellow

Note**Accessories****Mounting tool**

Tool set with torque function

Note

Type	Qty.	Order No.
SAIL-M8BG-3-1.5V	1	1927240150
SAIL-M8BG-3-1.5U	1	9457450150
SAIL-M8BG-3-1.5UGE	1	1093190150

Type	Qty.	Order No.
SAIL-M8BW-3-1.5V	1	1927320150
SAIL-M8BW-3-1.5U	1	9457380150
SAIL-M8BW-3-1.5UGE	1	1093220150

Type	Qty.	Order No.
SAIL-M8BG-4-1.5V	1	1927260150
SAIL-M8BG-4-1.5U	1	9457850150
SAIL-M8BG-4-1.5UGE	1	1093200150
SAIL-M8BW-4-1.5V	1	1927340150
SAIL-M8BW-4-1.5U	1	9456150150
SAIL-M8BW-4-1.5UGE	1	1093240150

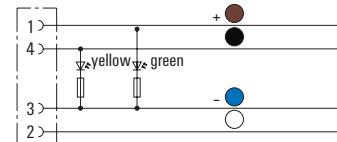
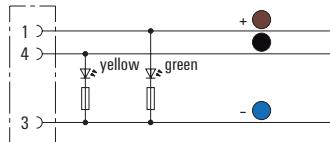
Type	Qty.	Order No.
Screwy Set -DM	1	1920000000

M12/M8 cables with connector at one end only with LED
3-pin / 2 LEDs

Female


4-pin / 2 LEDs

Female


Technical data

Rated current
Rated voltage
Temperature range of housing
Core cross-section
Protection degree
Contact surface
Sheath material
Insulation

Note
Ordering data
Female, angled

M12 angled socket, PVC

M12 angled socket, halogen-free PUR

M12 angled socket, halogen-free PUR, yellow

M12 angled socket, halogen-free PUR, resistant to welding beads

M8 angled socket, PVC

M8 angled socket, halogen-free PUR

M8 angled socket, halogen-free PUR, yellow

Note
Accessories
Mounting tool

Tool set with torque function

Note

4 A
24 V
-25...+85 °C
M12: 0.34 mm ² / M8: 0.25 mm ²
IP65, IP66, IP67, IP68, when screwed in

Gold-plated

PVC

PVC

4 A
24 V
-25...+85 °C
M12: 0.34 mm ² / M8: 0.25 mm ²
IP65, IP66, IP67, IP68, when screwed in

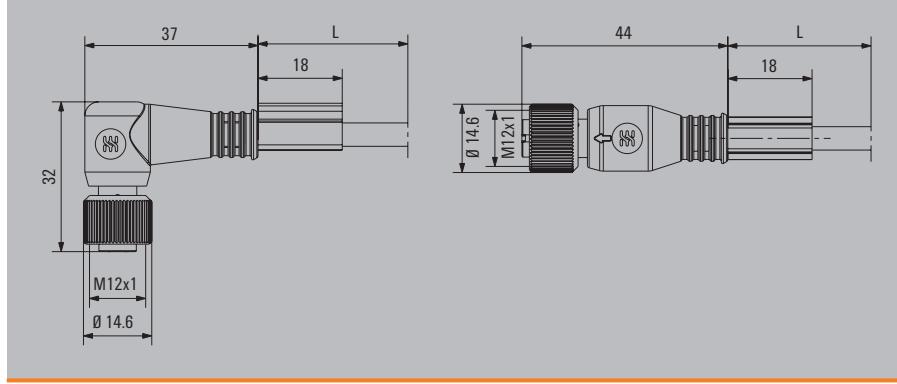
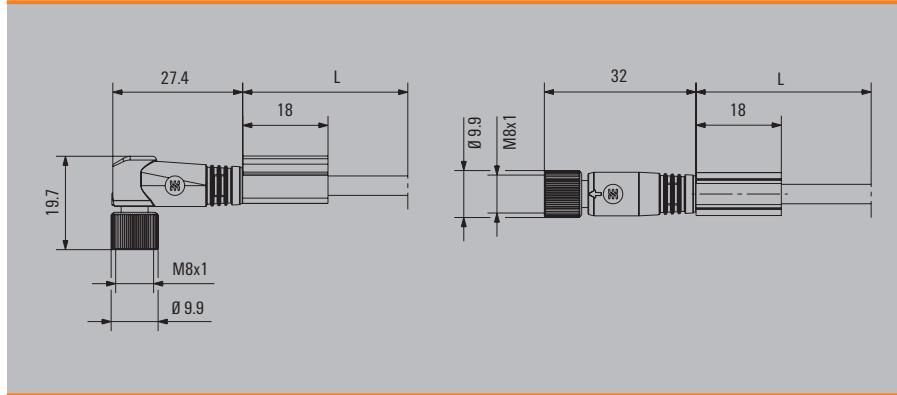
Gold-plated

PVC

PVC

Type	Qty.	Order No.
SAIL-M12BW-3L1.5V	1	1925460150
SAIL-M12BW-3L1.5U	1	9457800150
SAIL-M12BW-3L1.5UGE	1	1114880150
SAIL-M12BW-3L1.5T	1	1004330150
SAIL-M8BW-3L1.5V	1	1927350150
SAIL-M8BW-3L1.5U	1	9457460150
SAIL-M8BW-3L1.5UGE	1	1093210150

Type	Qty.	Order No.
SAIL-M12BW-4-2L1.5V	1	1925470150
SAIL-M12BW-4-2L1.5U	1	9456380150
SAIL-M12BW-4-2L1.5UGE	1	1092950150
SAIL-M12BW-4-2L1.5T	1	1007000150
SAIL-M8BW-4L1.5V	1	1927360150
SAIL-M8BW-4L1.5U	1	1906400150
SAIL-M8BW-4L1.5UGE	1	1093230150

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



IP67

B

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