

Remote I/O Catalogue 2016

Let's connect.

Electronic interface technology



Dear Customers,

The PDF versions of our catalogues offer practical additional functions, helping you to find your way around our product range and simplifying the ordering process.

In addition to the catalogue, the PDF also contains:

- Internal page links
- Links to the online catalogue

Try it out for yourself. Click the order number to obtain more detailed information and close-up images via your web browser. The links in the PDF file also enable you to go directly to the next desired catalogue page.

Further Weidmüller product catalogues can be accessed by clicking the following:



Remote I/O

2016



Smooth machine start-up

thanks to wirelessly 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 IP 67 version directly on the panel or in the cabinet in an IP 20 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

IP 20



A.1 More Performance. Simplified.

u-remote.

IP 67



B.1 Modular Communication. Robust.

SAI aktiv.

More Performance. Simplified. u-remote.



Weidmüller u-remote – our innovative remote I/O concept with IP 20 which focuses purely on user benefits: tailored planning, faster installation, safer start-up, minimised downtimes. For considerably improved performance and greater productivity.



IP 20

IP 20	u-remote	A.2
	Introduction	A.6
	Field bus coupler	A.8
	Digital input modules	A.22
	Digital output modules	A.38
	Pulse width modulation modules	A.54
	Analogue input modules	A.58
	Temperature modules	A.68
	Analogue output modules	A.72
	Digital counter- and communication- modules	A.78
	Safe I/O modules and safe power-feed modules	A.86
	Power-feed modules	A.94
	Accessories	A.98
	System overview	A.102

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.

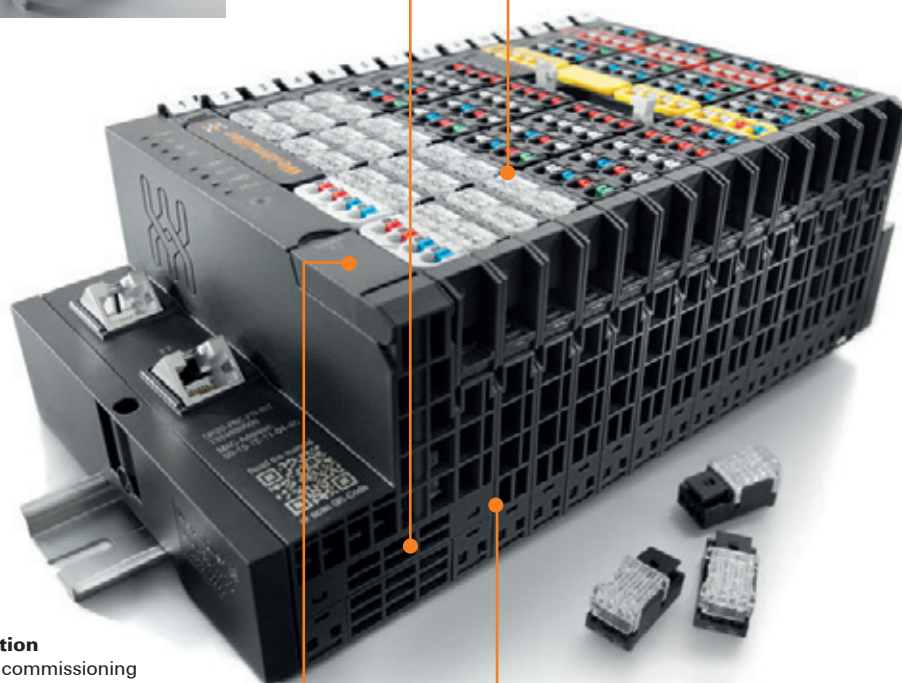


Why waste space?

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.

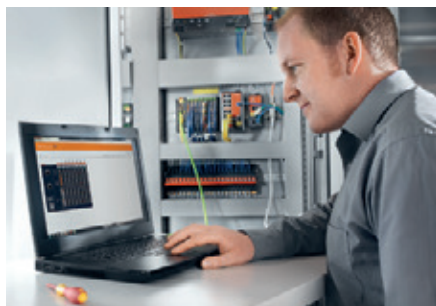
**Simply plug and go**

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.

**Diagnostics, even without a control connection**

u-remote simplifies machine commissioning section-by-section and accelerates maintenance work with its integrated web server. Thanks to the high performance diagnostic tool, you can simulate the functionality of inputs and outputs prior to control connection.

You can conduct plain text error analyses using any standard browser – whether you're working on-site or remotely.

**Intelligently separated**

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

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.



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.



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.



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.



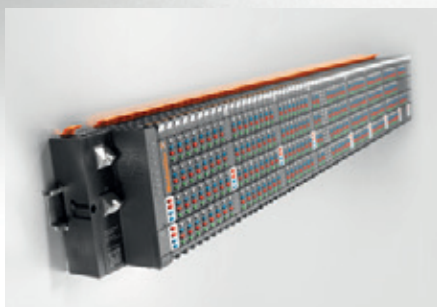
Direct insertion – direct savings

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.



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.



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.

IP 20

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



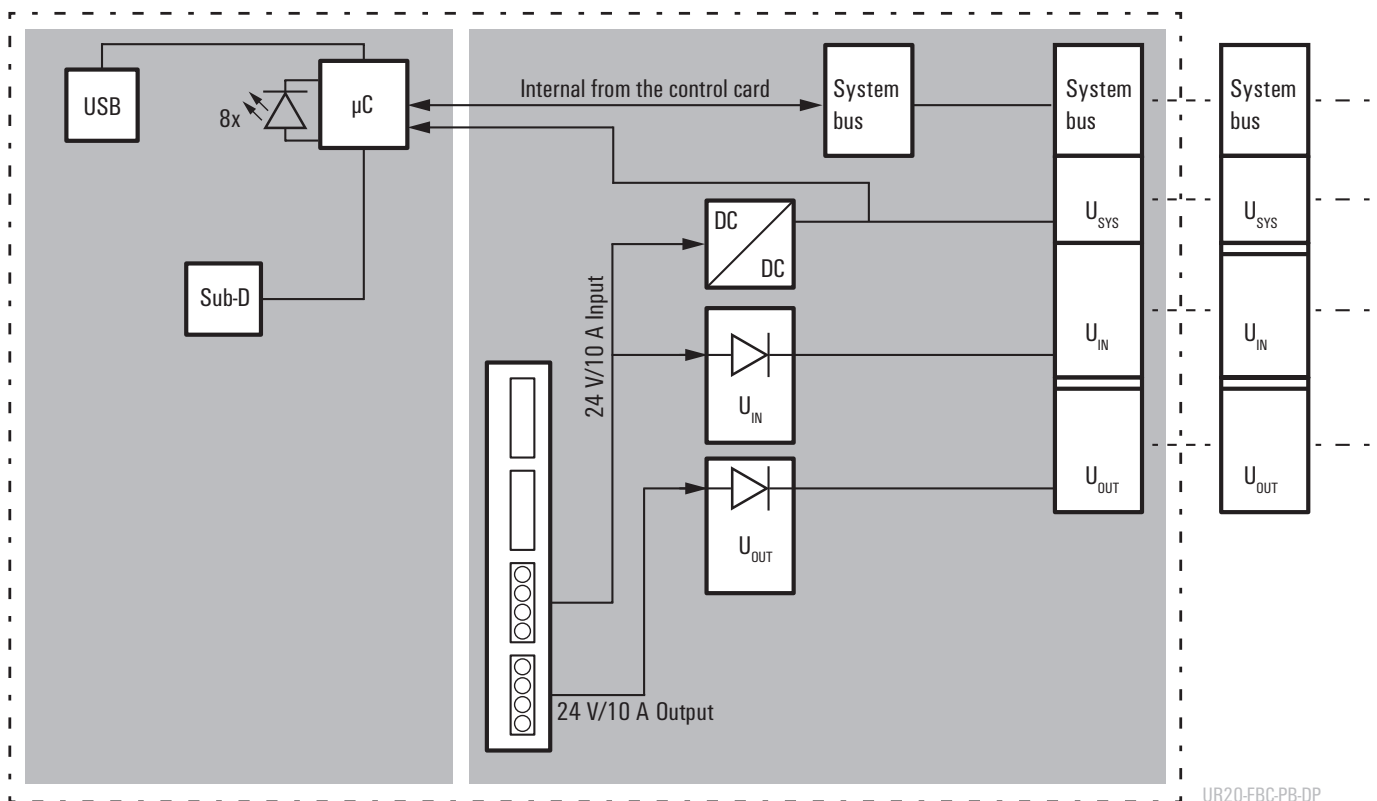
In automation technology, the PROFIBUS-DP standard enables the controlled incorporation of sensors and actuators via one central control unit. The UR20-FBC-PB-DP field bus coupler is a PROFIBUS-DP-V1 participant certified by the Profibus user organisation. With options for connecting up to 64 u-remote 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
Field bus protocol
Process data
Parameter data
Diagnostic data
Max. number of I/O modules
Configuration interface
Transmission rate of field bus
Transmission speed of u-remote system bus

9-pin SUB-D connector
PROFIBUS DP-V1
488 Bytes
244 Bytes
244 Bytes
64
Micro USB 2.0
12 Mbps
48 Mbps

Supply

Supply voltage for system and inputs
Supply voltage for outputs
Feed current for input modules, max.
Feed current for output modules, max.
Current consumption (I_N in power segment of field bus coupler), typ.

24 V DC +20 % / -15 %
24 V DC +20 % / -15 %
10 A
10 A
100 mA

General data

Weight
Dimensions (H/W/D)

220 g
120 mm (with catch lever 128 mm) x 52 mm x 76 mm

Note

Download of GSD-file on www.weidmueller.com

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
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

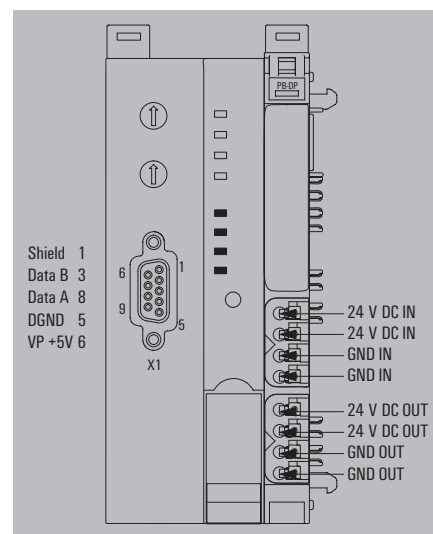
Plug-in connector unit

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 SDRVPE	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-1334870000-SP	5	1361520000
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^{*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



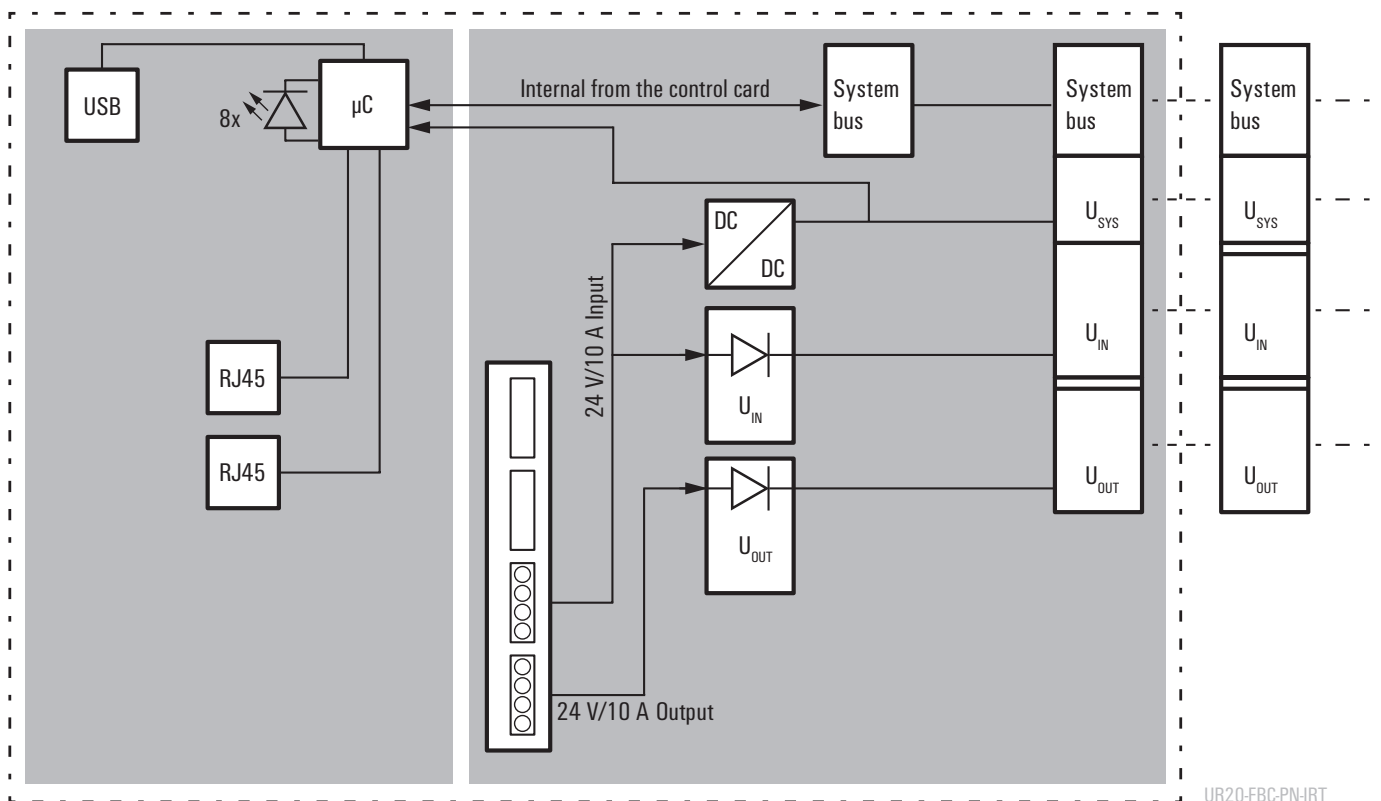
PROFINET is gaining in importance as a rapidly growing Industrial Ethernet Standard. By supporting real-time functionality (RT) and isochronous real-time functionality (IRT), the technology complies with modern system and application requirements to a large extent. The UR20-FBC-PN-IRT field bus coupler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



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
Field bus protocol
Process data
Parameter data
Diagnostic data
Fast startup
Max. number of I/O modules
Configuration interface
Transmission rate of field bus
Transmission speed of u-remote system bus

Supply

Supply voltage for system and inputs
Supply voltage for outputs
Feed current for input modules, max.
Feed current for output modules, max.
Current consumption (I_{IN} in power segment of field bus coupler), typ.

General data

Weight
Dimensions (H/W/D)

Note

2 x RJ45
PROFINET IO (RT/IRT)
1.024 Bytes
1.485 Bytes
1.485 Bytes
yes
64
Micro USB 2.0
100 Mbps
48 Mbps

24 V DC +20 % / -15 %
24 V DC +20 % / -15 %
10 A
10 A
116 mA

220 g
120 mm (with catch lever 128 mm) x 52 mm x 76 mm

Download of GSDML-file on www.weidmueller.com

Ordering data

Module variants

Field bus coupler, PROFINET IRT

Note

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

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

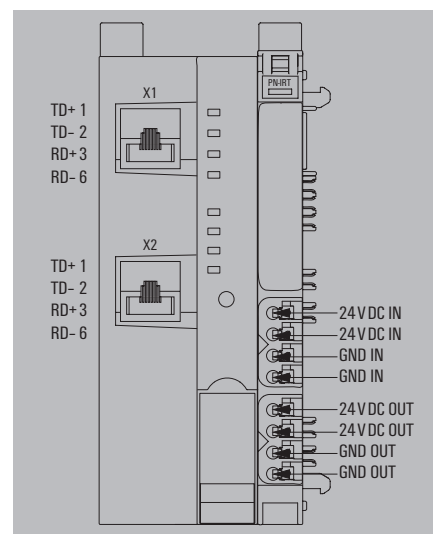
Plug-in connector unit

Note

Type	Qty.	Order No.
KDSM 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-1334880000-SP	5	1484120000
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*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

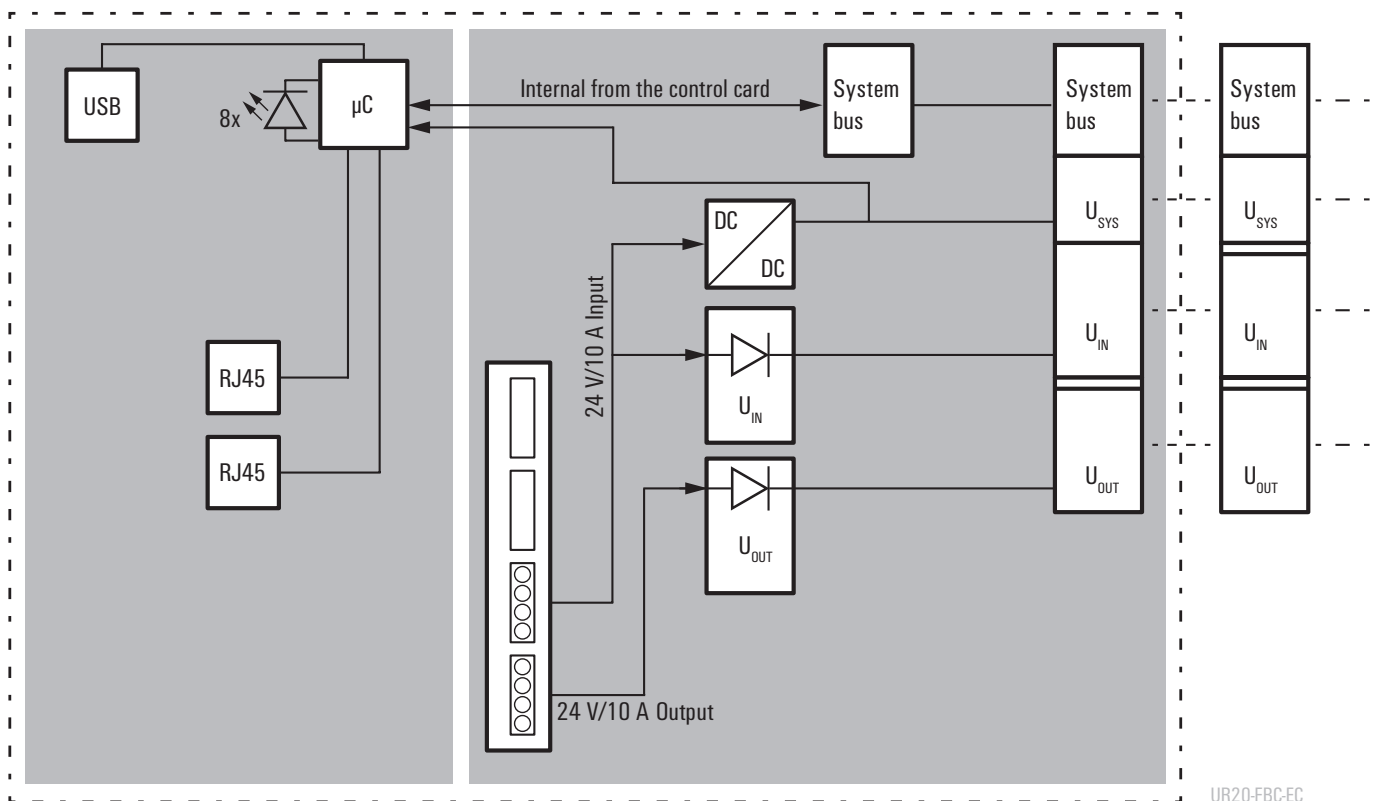
EtherCAT is a popular field bus standard for systems with stringent time requirements. The UR20-FBC-EC field bus coupler is an EtherCAT participant certified by the EtherCAT Technology Group. With options for connecting up to 64 u-remote participants, it serves as the head module for the u-remote system 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
Field bus protocol
Process data
Parameter data
Diagnostic data
Max. number of modules
Configuration interface
Transmission rate of field bus
Transmission speed of u-remote system bus

2 x RJ-45

EtherCAT

1024 Byte

64 x 64 = 4KB

64 x 50 Bytes

64

Micro USB 2.0

100 Mbps

48 Mbps

Supply

Supply voltage for system and inputs
Supply voltage for outputs
Feed current for input modules, max.
Feed current for output modules, max.
Current consumption (I_N in power segment of field bus coupler), typ.

24 V DC +20 % / -15 %

24 V DC +20 % / -15 %

10 A

10 A

130 mA

General data

Weight
Dimensions (H/W/D)

220 g

120 mm (with catch lever 128 mm) x 52 mm x 76 mm

Note

Download of ESI-file on www.weidmueller.com

Ordering data

Module variants

Field bus coupler, EtherCAT

Note

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

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)

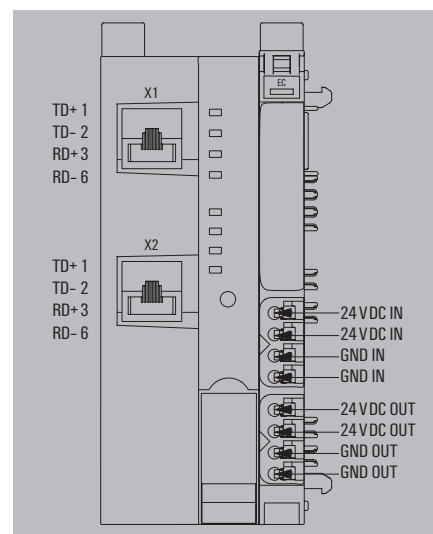
Replacement parts

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
ESD UR20 DIN A4 WS ^{*2)}	10	1429430000
IE-C6FP8LE0015M40M40-E	1	1487980000

UR20-PK-1334910000-SP	5	1484440000
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^{*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



Let's connect.

Modbus-TCP field bus coupler

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

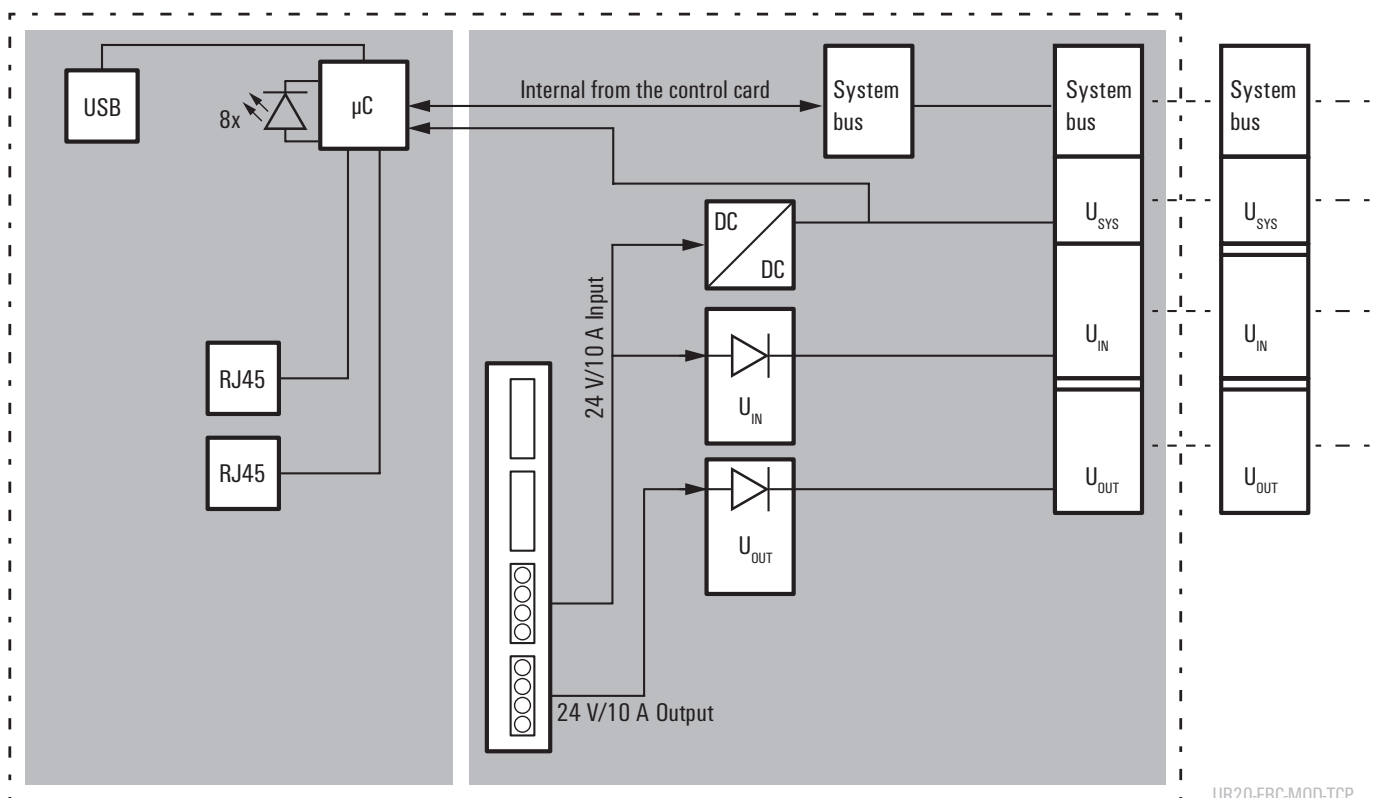
System safety around the globe is provided by the Modbus-TCP version, which is stated in IEC 61158 as an Industrial Ethernet Standard. The UR20-FBC-MOD-TCP from Weidmüller is a field bus coupler designed in accordance with IEC 61158. With options for connecting up to 64 u-remote participants, it serves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

Modbus-TCP

- 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
Field bus protocol
Process data
Parameter data
Diagnostic data
Max. number of modules
Configuration interface
Transmission rate of field bus
Transmission speed of u-remote system bus

2 x RJ-45
Modbus TCP
8 kBytes
1.024 Bytes
1.024 Bytes
64
Micro USB 2.0
100 Mbps
48 Mbps

Supply

Supply voltage for system and inputs
Supply voltage for outputs
Feed current for input modules, max.
Feed current for output modules, max.
Current consumption (I_{IN} in power segment of field bus coupler), typ.

24 V DC +20 % / -15 %
24 V DC +20 % / -15 %
10 A
10 A
112 mA

General data

Weight
Dimensions (H/W/D)

220 g
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

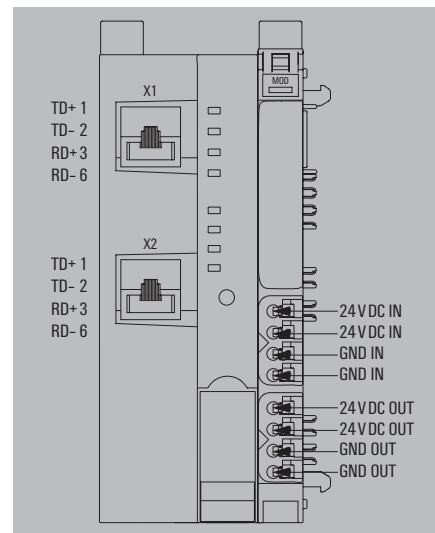
Accessories

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)

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-1334930000-SP	5	1484130000
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^{*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™

Web server tool;
two RJ45 Ports; 100 Mbps

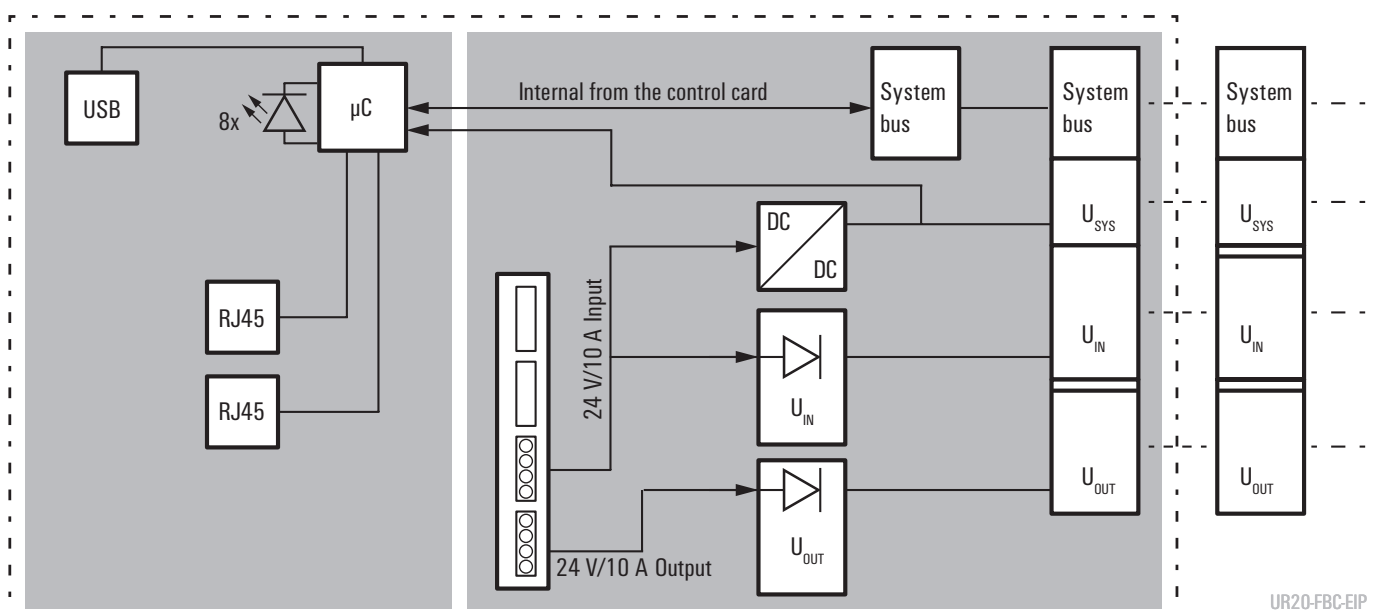
It is based on standard Ethernet technology such as TCP and UDP so it provides in addition to the transmission of unicast messages between two participants, the possibility of sending I/O data via multicast cyclically to multiple recipients. The UR20-FBC-EIP from Weidmüller is a field bus coupler designed 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
Field bus protocol
Process data
Parameter data
Diagnostic data
Max. number of I/O modules
Configuration interface
Transmission rate of field bus
Transmission speed of u-remote system bus

2 x RJ-45

Ethernet/IP

max. 2*494 Byte

max. 64*64 Byte

max. 64*47 Byte

64

Micro USB 2.0

100 Mbps

48 Mbps

Supply

Supply voltage for system and inputs
Supply voltage for outputs
Feed current for input modules, max.
Feed current for output modules, max.
Current consumption (I_N in power segment of field bus coupler), typ.

24 V DC +20 % / -15 %

24 V DC +20 % / -15 %

10 A

10 A

112 mA

General data

Weight
Dimensions (H/W/D)

220 g

120 mm (with catch lever 128 mm) x 52 mm x 76 mm

Note

Download of EDS-file on www.weidmueller.com

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

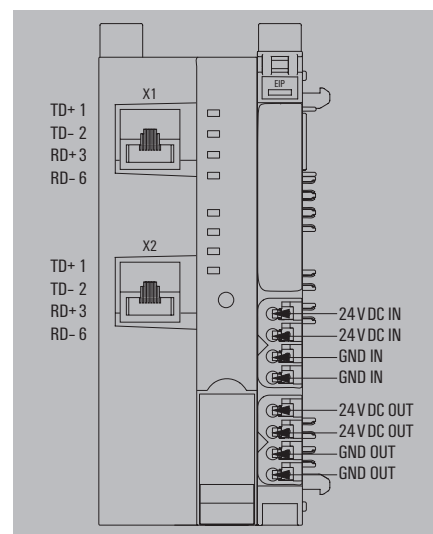
Plug-in connector unit

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
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^{*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.

Web server tool;

More Performance. Simplified.

The diagram illustrates the internal architecture of the UR20-FBC-DN control card, divided into three main functional areas:

- Left Section (Input/Interface):** Contains a USB port connected to a microcontroller (μC). An 8x optoisolator is positioned between the USB and the μC . A 5 pole socket is also connected to the μC .
- Middle Section (Power and Control):** Features a 24 V/10 A Input terminal block and a 24 V/10 A Output terminal block. The input is connected to a DC/DC converter, which then feeds into the System bus. The output is connected to two output voltage monitors, U_{IN} and U_{OUT} , which also feed into the System bus.
- Right Section (System Bus and Outputs):** Shows the System bus connected to a stack of output voltage monitors: U_{SYS} , U_{IN} , and U_{OUT} . These are further connected to the final output terminals on the right, which are labeled U_{SYS} , U_{IN} , and U_{OUT} .

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
Field bus protocol
Process data
Parameter data
Diagnostic data
Max. number of I/O modules
Configuration interface
Transmission rate of field bus
Transmission speed of u-remote system bus

Supply

Supply voltage for system and inputs
Supply voltage for outputs
Feed current for input modules, max.
Feed current for output modules, max.
Current consumption (I_N in power segment of field bus coupler), typ.

General data

Weight
Dimensions (H/W/D)

Note

Socket for 5-pole PCB plug-in connector

DeviceNet

1008 Byte

64*64 Byte = 4 KB

64*47 Byte

64

Micro USB 2.0

max. 500 kBit/s

max. 48 Mbps

24 V DC +20 % / -15 %

24 V DC +20 % / -15 %

10 A

10 A

75 mA (+ 15 mA from DeviceNet supply)

225 g

120 mm (with catch lever) 128 mm x 52 mm x 76 mm

Download of EDS-file on www.weidmueller.com

Ordering data

Module variants

Field bus coupler, DeviceNet

Note

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

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)
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

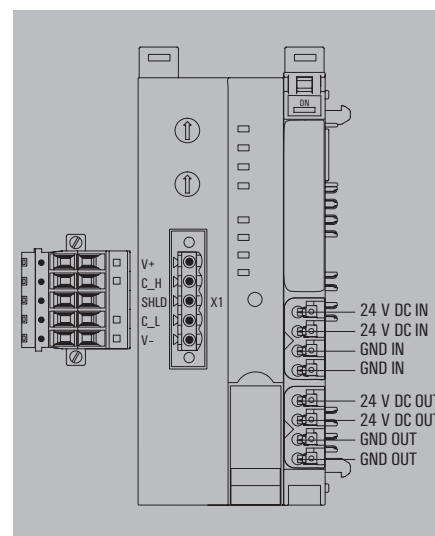
Note

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

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



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



Let's connect.

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
Field bus protocol
Process data
Parameter data
Diagnostic data
Max. number of I/O modules
Configuration interface
Transmission rate of field bus
Transmission speed of u-remote system bus

9-pole Sub-D socket

CANopen

488 Byte

244 Byte

244 Byte

64

Micro USB 2.0

max. 1 Mbps

max. 48 Mbps

Supply

Supply voltage for system and inputs
Supply voltage for outputs
Feed current for input modules, max.
Feed current for output modules, max.
Current consumption (I_{IN} in power segment of field bus coupler), typ.

24 V DC +20 % / -15 %

24 V DC +20 % / -15 %

10 A

10 A

90 mA

General data

Weight
Dimensions (H/W/D)

227 g

120 mm (with catch lever) 128 mm x 52 mm x 76 mm

Note

Download of EDS-file on www.weidmueller.com

Ordering data

Module variants

Field bus coupler, CANopen

Note

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

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

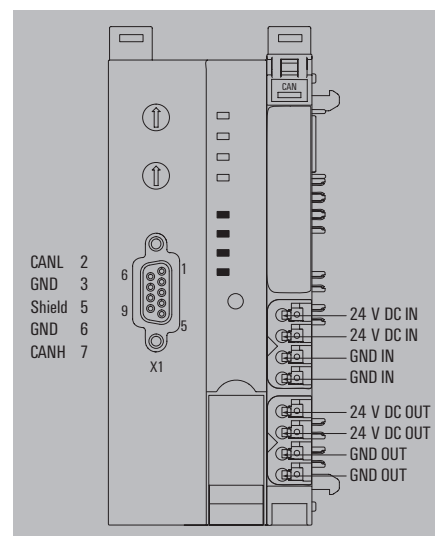
Note

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-1334890000-SP

5

2003530000

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

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



Let's connect.

Digital input modules

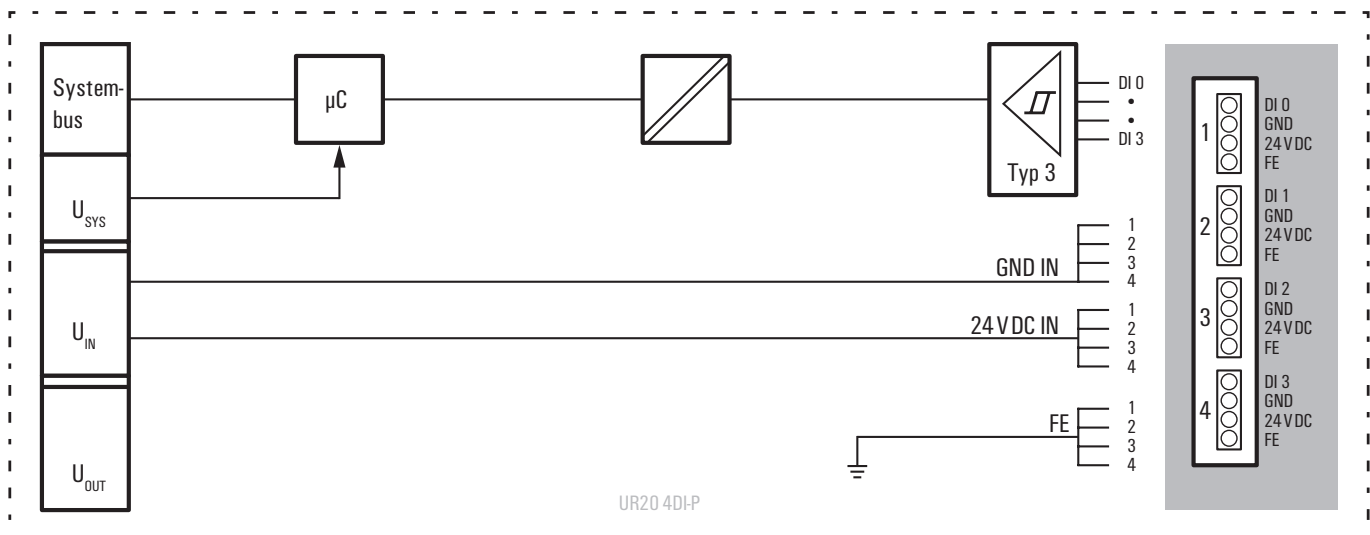
P- or N-switching; Reverse polarity protection, up to 3-wire +FE

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 μ s resolution. Further solutions are possible with the module UR20-4DI-2W-230V-AC which works with accurate current up to 230V 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	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} in the respective power segment)	< 12 mA + sensor feed
Digital inputs	
Number	4
Input Type	Types 1 and 3, IEC 61131-2
Input filter	adjustable, up to 40 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	yes
Sensor connection	2-wire, 3-wire, 3-wire+FE
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
General data	
Weight	87 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data

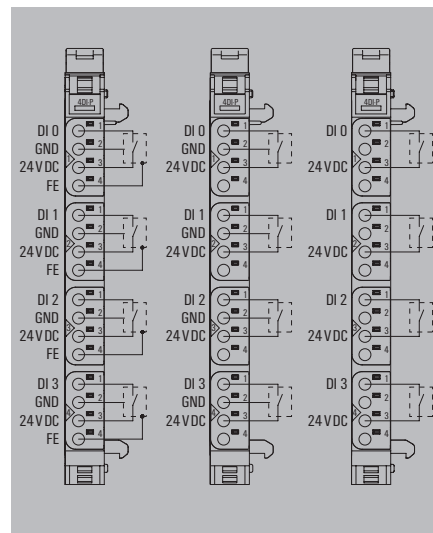
Module variants
Digital input module, 4 channels

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

Accessories

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.

Digital input modules

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

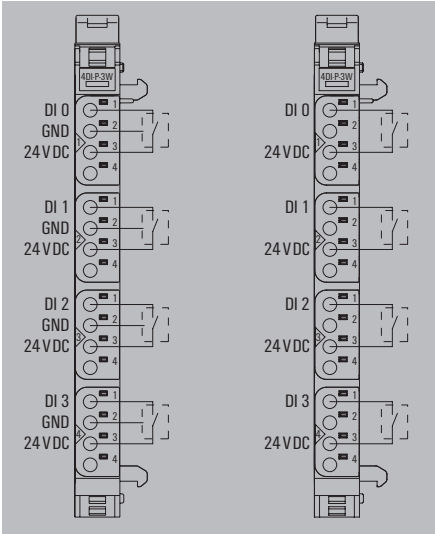
Module variants
Digital input module, 4 channels, 3-wire

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

Accessories

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-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 (in preparation)	EN 61000
ATEX (in preparation)	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	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} in the respective power segment)	< 22 mA
Digital inputs	
Number	8
Input Type	Types 1 and 3, IEC 61131-2
Input filter	adjustable, up to 40 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	yes
Sensor connection	2-wire
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
General data	
Weight	83 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

Ordering data

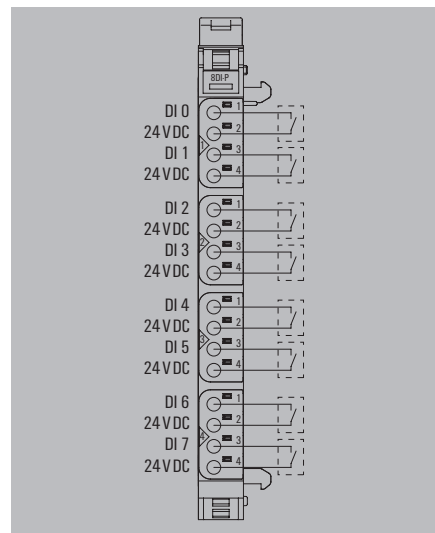
Module variants
Digital input module, 8 channels, 2-wire

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

Accessories

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-1315080000-SP	1	1346650000
UR20-BM-SP	5	1350930000
UR20-PK-1315180000-SP	5	1346430000
*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.

Digital input modules

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	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} in the respective power segment)	< 22 mA + sensor feed
Digital inputs	
Number	8
Input Type	Types 1 and 3, IEC 61131-2
Input filter	adjustable, up to 40 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	yes
Sensor connection	2-wire, 3-wire
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
General data	
Weight	83 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

Ordering data

Module variants
Digital input module, 8 channels, 3-wire

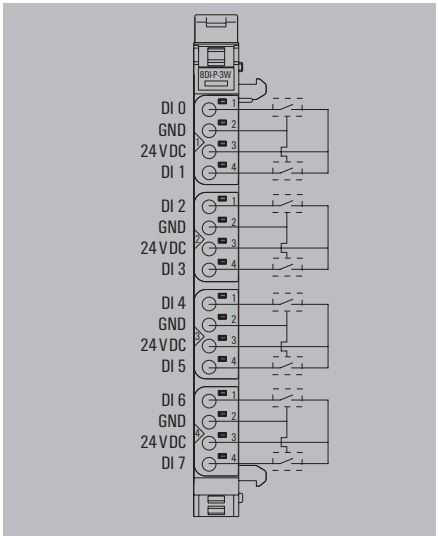
Type	Qty.	Order No.
UR20-8DI-P-3W	1	1394400000

Accessories

Accessories	
Coding elements	KOSM BHZ5.00
Termination kit	UR20-EBK-ACC
Swivel marker	UR20-SM-ACC
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS
Module marker for custom printing	DEK 5/8-11.5 MC SDR
Module marker for neutral	DEK 5/8-11.5 MC NE WS
Thermotransfer version (Material: Polyester)	THM UR20 GE * ¹⁾
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾
Paper version for Laserprinter	ESO UR20 DIN A4 WS * ²⁾
Replacement parts	
Electronics module	UR20-EM-1394400000-SP
Basic module	UR20-BM-SP
Plug-in connector unit	UR20-PK-1394400000-SP
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	1434220000
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.



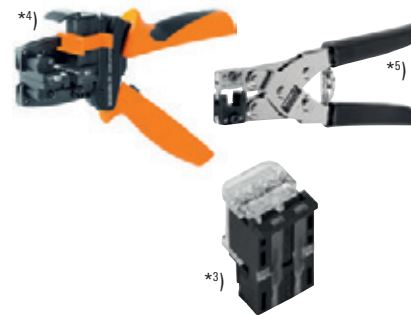
Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1394400000



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	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} in the respective power segment)	< 30 mA + sensor feed
Digital inputs	
Number	8
Input Type	Types 1 and 3, IEC 61131-2
Input filter	adjustable, up to 40 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	maximum 150 mA per channel
Sensor connection	2-wire, 3-wire
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
General data	
Weight	83 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, 8 channels, 3-wire, HD plug

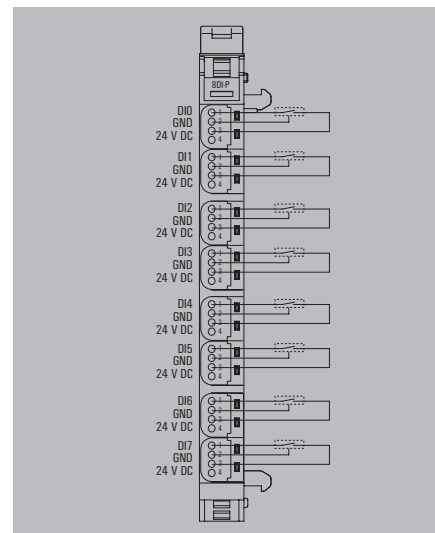
Type	Qty.	Order No.
UR20-8DI-P-3W-HD	1	1315190000

Accessories

Accessories	
Coding elements	KDSM BHZ5.00
Termination kit	UR20-EBK-ACC
Swivel marker	UR20-SM-ACC
*3) HD-Plug	UR20-PGO.35
*4) Stripping tool	multi-stripax 6-16
*5) Pressing tool	PWZ-UR20-HD
Module marker for custom printing	DEK 5/8-11.5 MC SDR
Module marker for neutral	DEK 5/8-11.5 MC NE WS
Thermotransfer version (Material: Polyester)	THM UR20 GE *1)
Thermotransfer version (Material: Polyester)	THM UR20 WS *1)
Paper version for Laserprinter	ESD UR20 DIN A4 WS *2)
Replacement parts	
Electronics module	UR20-EM-1315190000-SP
Basic module	UR20-BM-SP
Plug-in connector unit	UR20-PK-1315190000-SP
Note	

Type	Qty.	Order No.
KDSM 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
ESD 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.

Digital input modules

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	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} in the respective power segment)	< 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	no
Sensor connection	1-wire
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
General data	
Weight	87 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

Ordering data

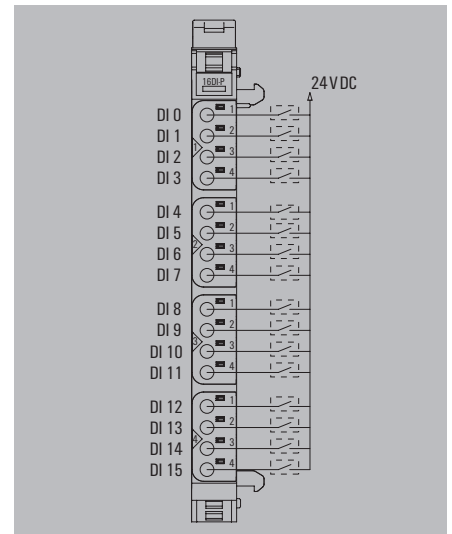
Module variants
Digital input module, 16 channels

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

Accessories

Accessories	
Coding elements	KOSM BHZ5.00
Termination kit	UR20-EBK-ACC
Swivel marker	UR20-SM-ACC
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS
Module marker for custom printing	DEK 5/8-11.5 MC SDR
Module marker for neutral	DEK 5/8-11.5 MC NE WS
Thermotransfer version (Material: Polyester)	THM UR20 GE * ¹⁾
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾
Paper version for Laserprinter	ESO UR20 DIN A4 WS * ²⁾
Replacement parts	
Electronics module	UR20-EM-1315200000-SP
Basic module	UR20-BM-SP
Plug-in connector unit	UR20-PK-1315200000-SP
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	
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} external)	
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	
external	
PLC interface	
yes	
yes	
no	
73 g	
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

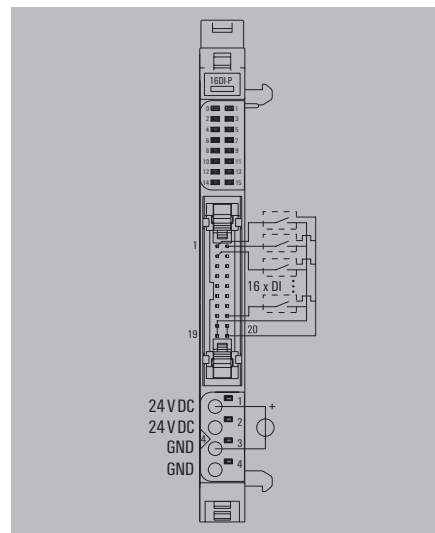
Type	Qty.	Order No.
UR20-16DI-P-PLC-INT	1	1315210000

Accessories

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.
KDSM 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-1315210000-SP	1	1346690000
UR20-BM-SP	5	1350930000
UR20-PK-1315210000-SP	5	1346590000

*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-1315210000



Let's connect.

Digital input modules

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	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} in the respective power segment)	< 10 mA + sensor feed
Digital Inputs	
Number	2
Input Type	Type 1 und 3, IEC 61131-2
Input filter	adjustable, up to 40 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	yes
Sensor connection	2-wire, 3-wire, 3-wire+FE
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
Data width Timestamp	16 Bit
Resolution Timestamp	1 µs
General data	
Weight	83 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data

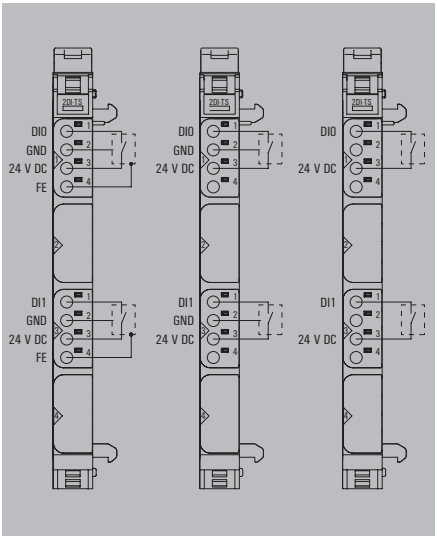
Module variants
Digital input module, 2 channels, Timestamp

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

Accessories

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.
KDSM 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



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 μ s Timestamp resolution

UR20-4DI-P-TS



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} in the respective power segment)	< 10 mA + sensor feed
Digital Inputs	
Number	4
Input Type	Types 1 and 3, IEC 61131-2
Input filter	adjustable, up to 40 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	yes
Sensor connection	2-wire, 3-wire, 3-wire+FE
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
Data width Timestamp	16 Bit
Resolution Timestamp	1 μ s
General data	
Weight	87 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, 4 channels, Timestamp

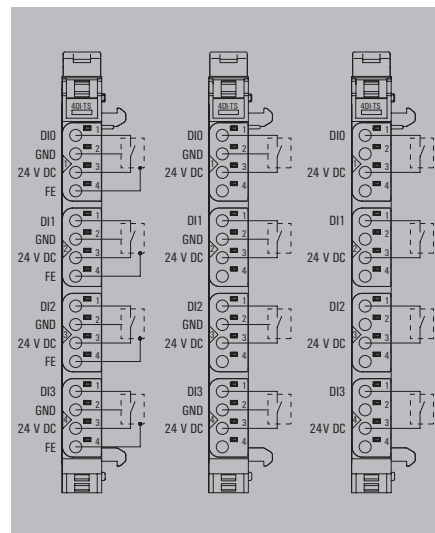
Type	Qty.	Order No.
UR20-4DI-P-TS	1	1460150000

Accessories

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.
KDSM 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



Let's connect.

Digital input modules

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	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}	< 12 mA + sensor feed
Inputs	
Number	4
Input Type	N-switching, comparable to Type 1 and Type 3 (IEC 61131-2)
Input filter	adjustable, up to 40 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	max. 2 A per plug, total max. 8 A
Sensor connection	2-wire, 3-wire, 3-wire + FE
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
General Data	
Weight	87 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data

Module variants
Digital input module, 4 channels

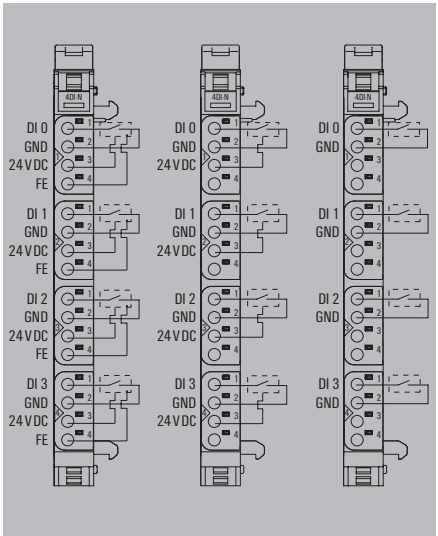
Type	Qty.	Order No.
UR20-4DI-N	1	1315350000

Accessories

Accessories	
Coding elements	KDSM BHZ5.00
Termination kit	UR20-EBK-ACC
Swivel marker	UR20-SM-ACC
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS
Module marker for custom printing	DEK 5/8-11.5 MC SDR
Module marker for neutral	DEK 5/8-11.5 MC NE WS
Thermotransfer version (Material: Polyester)	THM UR20 GE * ¹⁾
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾
Paper version for Laserprinter	ESO UR20 DIN A4 WS * ²⁾
Replacement parts	
Electronics module	UR20-EM-1315350000-SP
Basic module	UR20-BM-SP
Plug-in connector unit	UR20-PK-1315350000-SP
Note	

Type	Qty.	Order No.
KDSM 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



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)	

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	

Ordering data

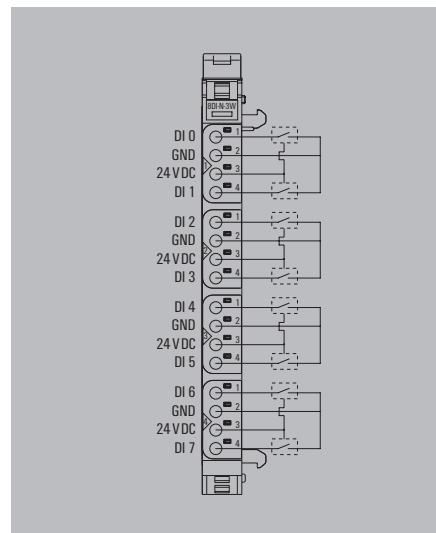
Module variants
Digital input module, 8 channels, 3-wire

Type	Qty.	Order No.
UR20-8DI-N-3W	1	1315370000

Accessories

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-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 (in preparation)	UL 508



Let's connect.

Digital input modules

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

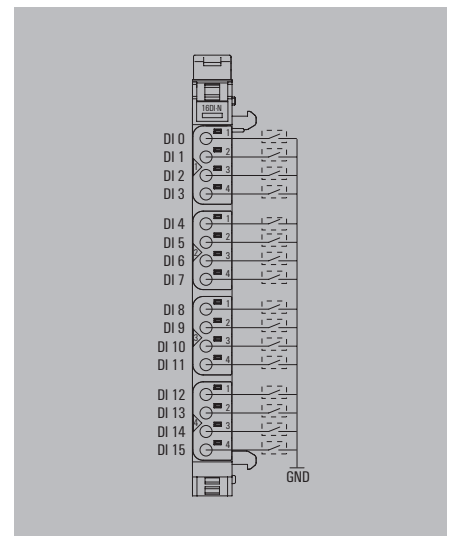
System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbps
Galvanic isolation	DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption from system current path I_{SYS}	8 mA
Current consumption from input current path I_{IN}	< 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	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	Type	Qty.	Order No.
Digital input module, 16 channels	UR20-16DI-N	1	1315390000

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE * ¹⁾	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-1315390000-SP	1	1346920000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315390000-SP	5	1559790000
* 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-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	
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	
< 15 mA	
16	
N-switching, comparable to Type 1 and Type 3 (IEC 61131-2)	
3 ms	
-5 V referred to system power supply U_{SYS}	
-11 V referred to system power supply U_{SYS}	
external	
PLC interface	
yes	
yes	
no	
73 g	
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

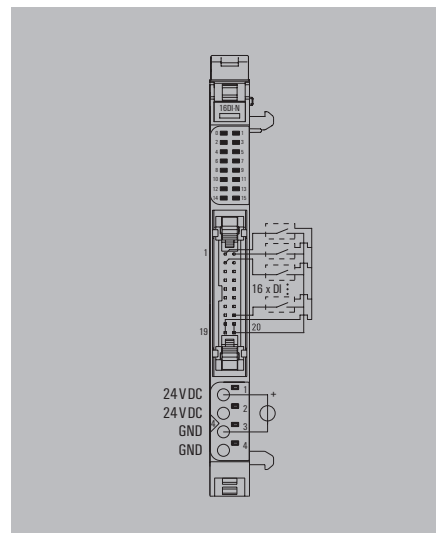
Type	Qty.	Order No.
UR20-16DI-N-PLC-INT	1	1315400000

Accessories

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.
KDSM 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-1315400000-SP	1	1346930000
UR20-BM-SP	5	1350930000
UR20-PK-1315400000-SP	5	1559800000

*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

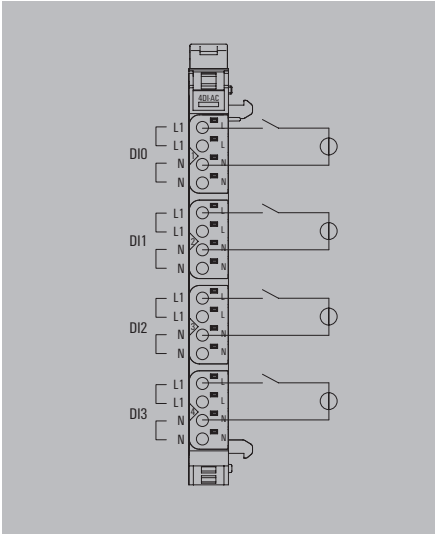
Type	Qty.	Order No.
UR20-4DI-2W-230V-AC	1	1550070000

Accessories

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
ESD 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.

Digital output modules

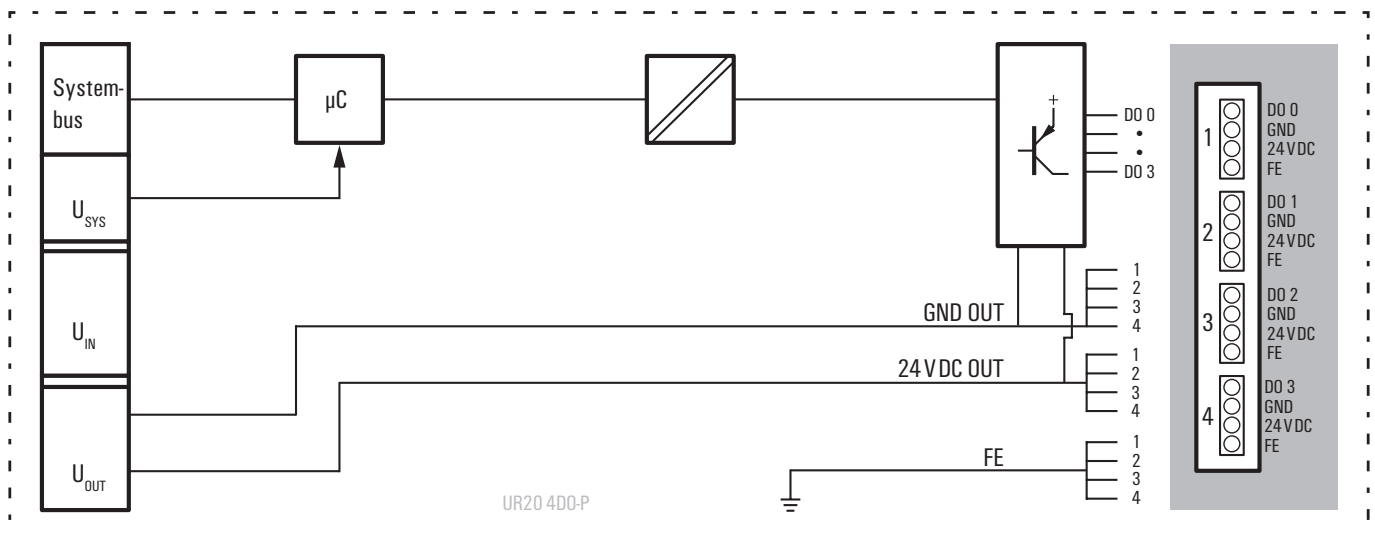
P- or N-switching; short-circuit-proof; up to 3-wire+FE

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	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_{OUT} in the respective power segment)	10 mA + load
Digital outputs	
Number	4
Type of load	ohmic, inductive, lamp load
Response time, high	100 μ s
Response time, low	250 μ s
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)
	Inductive load (DC 13)
	Lamp load (12 W)
Actuator connection	2-wire, 3-wire, 3-wire+FE
Short-circuit-proof	thermal
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 μ s (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

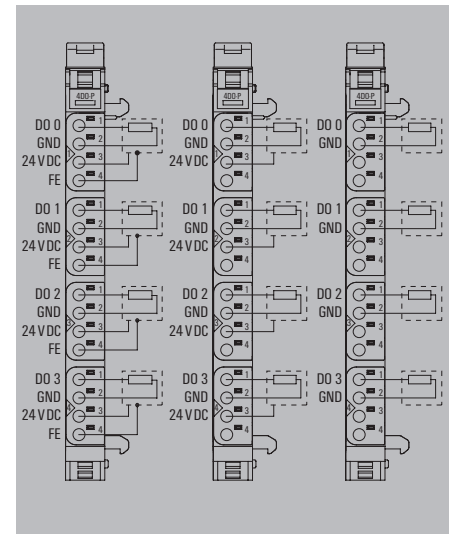
Type	Qty.	Order No.
UR20-4DO-P	1	1315220000

Accessories

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-1315220000-SP	1	1346700000
UR20-BM-SP	5	1350930000
UR20-PK-1315220000-SP	5	1483960000

^{*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.

Digital output modules

4D0-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

UR20-4D0-P-2A



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_{OUT} in the respective power segment)	10 mA + load
Digital outputs	
Number	4
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	thermal
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 µs (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, 2 A

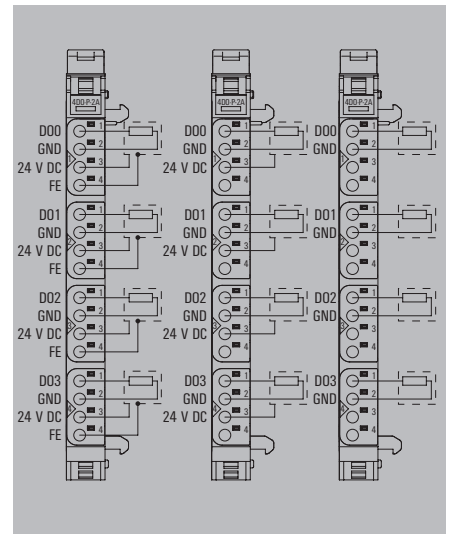
Type	Qty.	Order No.
UR20-4D0-P-2A	1	1315230000

Accessories

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-1315230000-SP	1	1346710000
UR20-BM-SP	5	1350930000
UR20-PK-1315230000-SP	5	1483970000

^{*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)	

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 μ s	
250 μ s	
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 μ s (ambient temperature dependent)	
87 g	
120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm	

Ordering data

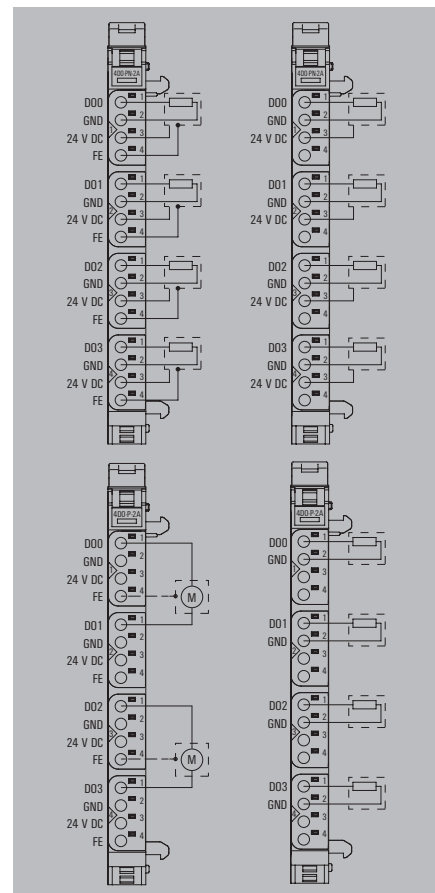
Module variants	
Digital output module, 4 channels, positively or negatively switching	

Type	Qty.	Order No.
UR20-4DO-PN-2A	1	1394420000

Accessories

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.
KDSM 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-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



Let's connect.

Digital output modules

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	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_{OUT} in the respective power segment)	15 mA + load
Digital outputs	
Number	8
Type of load	ohmic, inductive, lamp load
Response time, high	100 μ s
Response time, low	250 μ s
Output current per channel, max.	0.5 A
Output current per module, max.	4 A
Switching frequency max.	
	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 μ s (ambient temperature dependent)
General data	
Weight	87 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, 8 channels

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

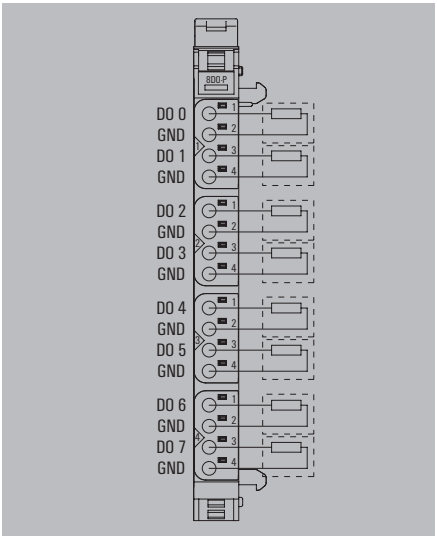
*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.

Accessories

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-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.



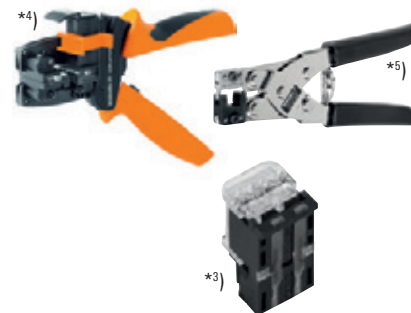
Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315240000



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)

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 + load

8
ohmic, inductive, lamp load
max. 50 μ s
max. 100 μ s
0.5 A
4

1 kHz
0.2 Hz
1 kHz
2-wire
thermal
yes
yes
no
150 mJ / channel
< 100 μ s (ambient temperature dependent)

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

Ordering data**Module variants**

Digital output module, 8 channels, HD-plug

Note

Type	Qty.	Order No.
UR20-8DO-P-2W-HD	1	1509830000

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

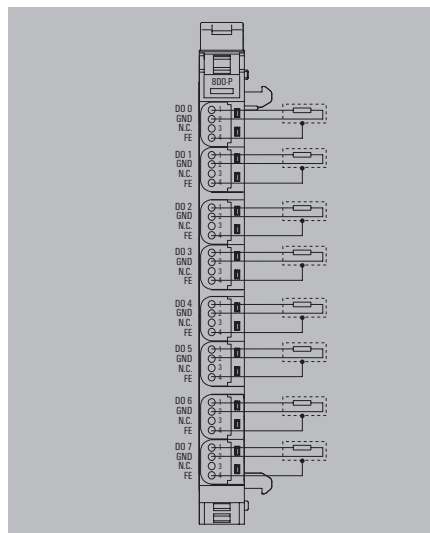
Electronics module
Basic module
Plug-in connector unit

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-1509830000-SP	1	1515450000
UR20-BM-SP	5	1350930000
UR20-PK-1509830000-SP	5	1559720000

*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.

Digital output modules

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	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_{OUT} in the respective power segment)	20 mA + load
Digital outputs	
Number	16
Type of load	ohmic, inductive, lamp load
Response time, high	100 μ s
Response time, low	250 μ s
Output current per channel, max.	0.5 A
Output current per module, max.	8 A
Switching frequency max.	
	1 kHz
	Resistive load (min. 47 Ω)
	Inductive load (DC 13)
	Lamp load (12 W)
Actuator connection	1-wire
Short-circuit-proof	thermal
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 μ s (ambient temperature dependent)
General data	
Weight	83 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, 16 channels

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

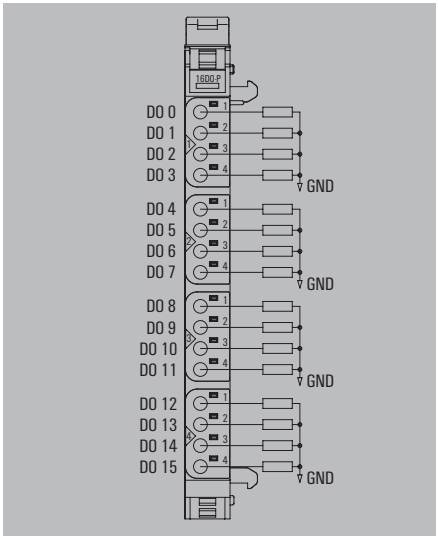
*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.

Accessories

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-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 μ s
250 μ s
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 μ s (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

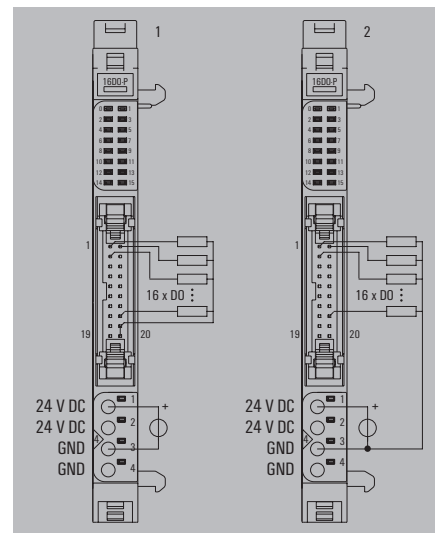
Type	Qty.	Order No.
UR20-16DO-P-PLC-INT	1	1315270000

Accessories

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.

Digital output modules

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	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 output current path I_{OUT}	10 mA + load
Outputs	
Number	4, N-switching
Type of load	ohmic, inductive, lamp load
Response time, high	100 μ s
Response time, low	250 μ s
Output current per channel, max.	0.5 A
Output current per module, max.	2 A
Switching frequency max.	1 kHz
	2 Hz without free-wheeling diode; 1 kHz with suitable free wheeling diode
Resistive load (min. 47 Ω)	10 Hz
Inductive load (DC 13)	2-wire, 3-wire, 3-wire + FE
Lamp load (12 W)	yes
Actuator connection	yes
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	86 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data

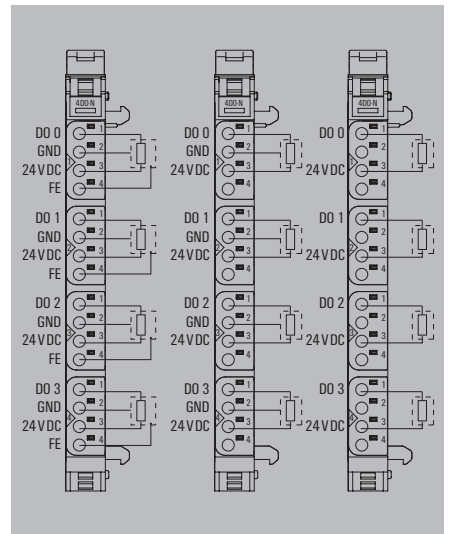
Module variants
Digital output module, 4 channels

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

Accessories

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-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 (in preparation)	EN 60079
UL (in preparation)	UL 508



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	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 output current path I_{OUT}	10 mA + load
Outputs	
Number	4, N-switching
Type of load	ohmic, inductive, lamp load
Response time, high	100 μ s
Response time, low	250 μ s
Output current per channel, max.	2 A
Output current per module, max.	8 A
Switching frequency max.	1 kHz
	2 Hz without free-wheeling diode; 1 kHz with suitable free wheeling diode
	10 Hz
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

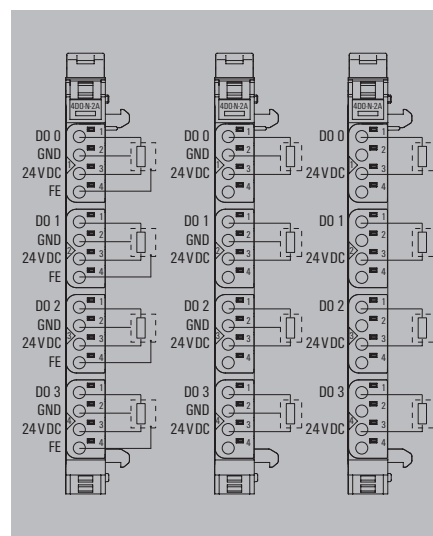
Type	Qty.	Order No.
UR20-4DO-N-2A	1	1315420000

Accessories

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

^{*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 508



Let's connect.

Digital output modules

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 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
10 mA + load
8, N-switching
ohmic, inductive, lamp load
100 μ s
250 μ s
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 μ s
87 g
120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data

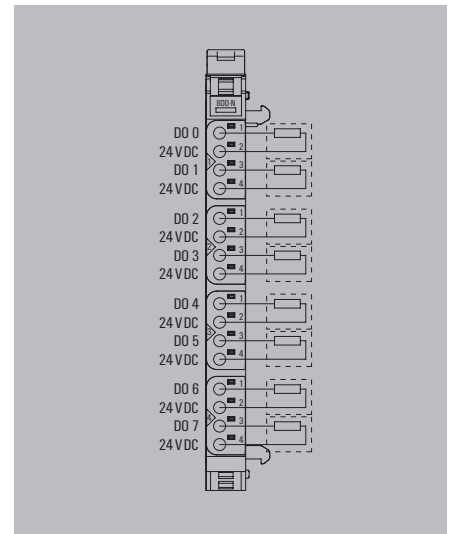
Module variants
Digital output module, 8 channels

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

Accessories

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-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 (in preparation)	EN 60079
UL (in preparation)	UL 508



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	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_{OUT} in the respective power segment)	15 mA + load
Digital outputs	
Number	16, N-switching
Type of load	ohmic, inductive, lamp load
Response time, high	100 μ s
Response time, low	250 μ s
Output current per channel, max.	0.5 A
Output current per module, max.	8 A
Switching frequency max.	1 kHz
	2 Hz
	10 Hz
Actuator connection	1-wire
Short-circuit-proof	thermal
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 μ s
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, 16 channels

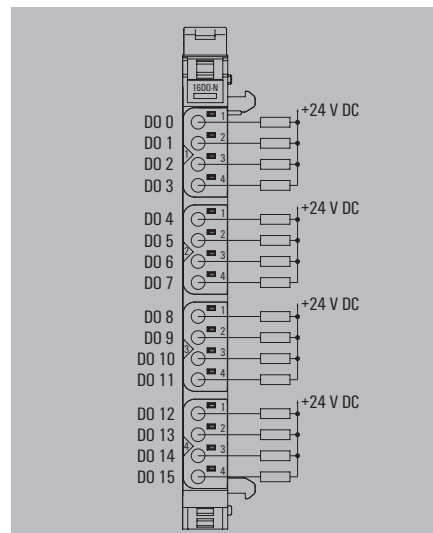
Type	Qty.	Order No.
UR20-16DO-N	1	1315440000

Accessories

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-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 (in preparation)	EN 61000
ATEX (in preparation)	EN 60079
UL (in preparation)	UL 61010-2-201
MSIP (in preparation)	MSIP-REM-WMG-1315440000



Let's connect.

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 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 μ s
250 μ s
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 μ s
83 g
120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data

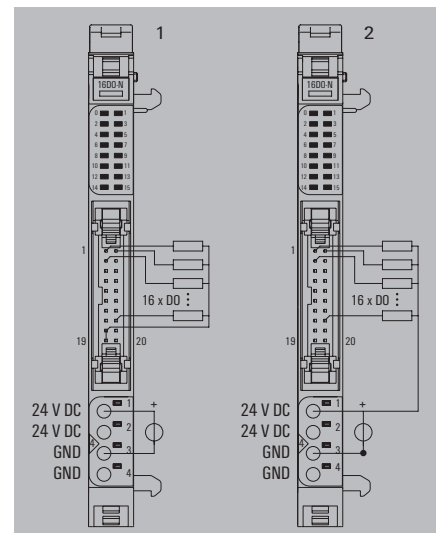
Module variants
Digital output module, 16 channels, PLC interface

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

Accessories

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-1315450000-SP	1	1346990000
UR20-BM-SP	5	1350930000
UR20-PK-1315450000-SP	5	2000540000
^{*1)} 1 roll = 1000 label = 1 Qty. ^{*2)} 1 sheet = 60 label = 1 Qty.		



Product standard	IEC 61131-2
EMC (in preparation)	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**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

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

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

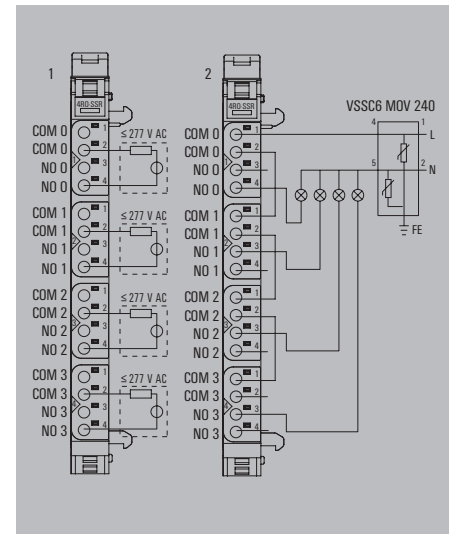
Replacement parts

Electronics module
Basic module
Plug-in connector unit

Note

Type	Qty.	Order No.
KDSM 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



Let's connect.

Digital output modules

4RO-C0-255

- 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-C0-255



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_{OUT} in the respective power segment)	< 15 mA
Digital outputs	
Number	4
Type	Change-over contact
Response time, high	20 ms
Response time, low	20 ms
Output current per channel, max.	5 A at 60 °C / 6 A at 55 °C
Output current per module, max.	20 A at 60 °C / 24 A at 55 °C
Switching frequency max.	5 Hz
Short-circuit-proof	no
Non reactive	yes
Switching voltage max.	277 V AC/DC *)
Module diagnosis	yes
Individual channel diagnosis	no
General data	
Weight	83 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, relay

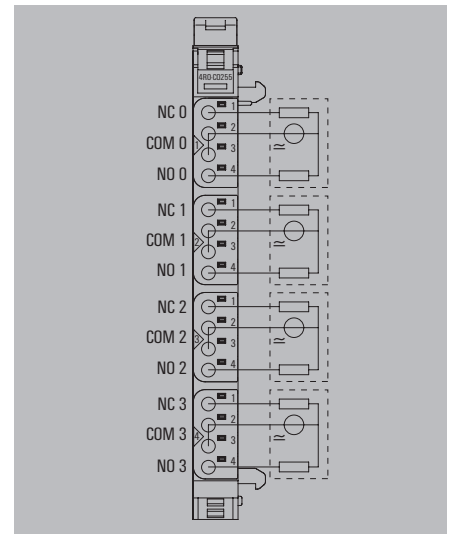
Type	Qty.	Order No.
UR20-4RO-C0-255	1	1315550000

Accessories

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.
KDSM 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.

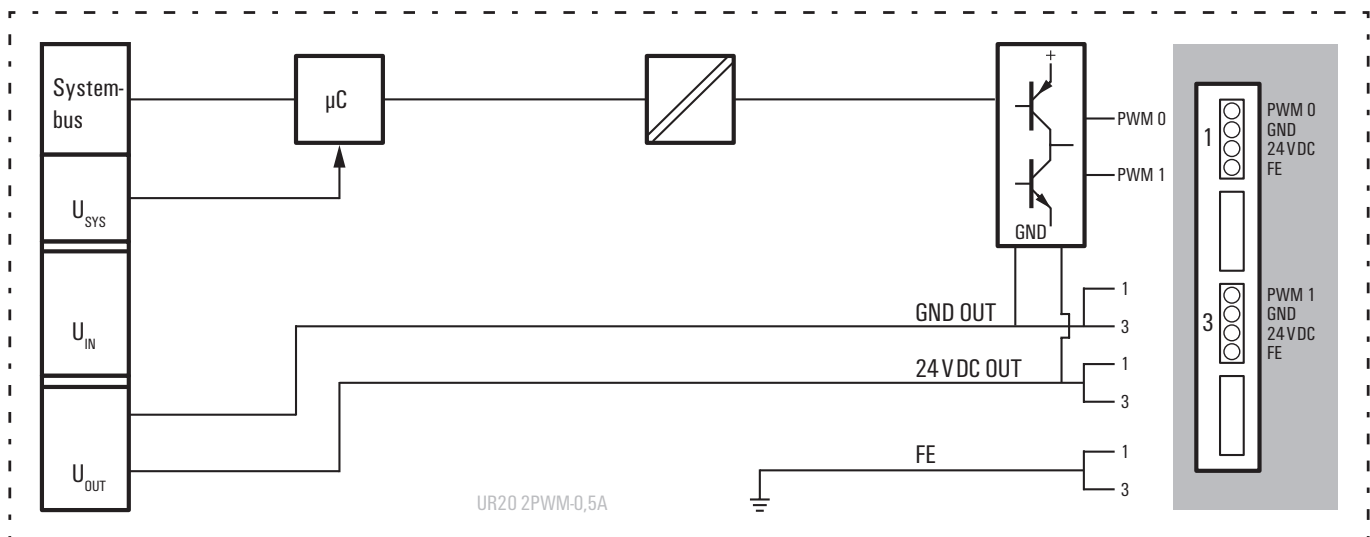
Pulse width modulation modules

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	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_{OUT} in the respective power segment)	40 mA + Load
Digital outputs	
Number	2
Type	PWM push/pull output stage
Resolution	32 Bit
Accuracy	1 Bit
Response time, high	< 100 ns
Response time, low	< 100 ns
Output current per channel, max.	0.5 A
Output current per module, max.	1 A
Switching frequency max.	
Resistive load (min. 47 Ω)	static, 6 Hz to 40 kHz
Inductive load (DC 13)	static, 6 Hz to 40 kHz
Lamp load (12 W)	static, 6 Hz to 40 kHz
Actuator connection	yes
Short-circuit-proof	yes
Module diagnosis	yes
Individual channel diagnosis	no
Non reactive	yes
Pulse duty factor	0 - 100 % push/pull or push parameterisable
General data	
Weight	77 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, PWM, 2 channels, 0.5 A

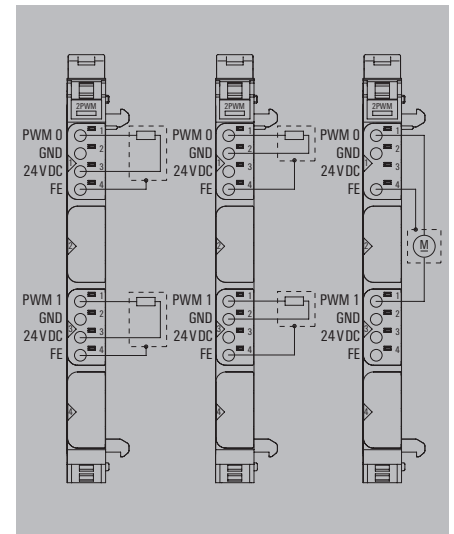
Type	Qty.	Order No.
UR20-2PWM-PN-0.5A	1	1315600000

Accessories

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.
KDSM 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-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.



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



Let's connect.

Pulse width modulation modules

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	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_{OUT} in the respective power segment)	40 mA + Load
Digital outputs	
Number	2
Type	DO PWM push/pull output stage
Resolution	32 Bit
Accuracy	1 Bit
Response time, high	< 100 ns
Response time, low	< 100 ns
Output current per channel, max.	2 A
Output current per module, max.	4 A
Switching frequency max.	
Resistive load (min. 47 Ω)	static, 6 Hz to 40 kHz
Inductive load (DC 13)	static, 6 Hz to 40 kHz
Lamp load (12 W)	static, 6 Hz to 40 kHz
Actuator connection	yes
Short-circuit-proof	yes
Module diagnosis	yes
Individual channel diagnosis	no
Non reactive	yes
Pulse duty factor	0 - 100 % push/pull or push parameterisable
General data	
Weight	82 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

Ordering data

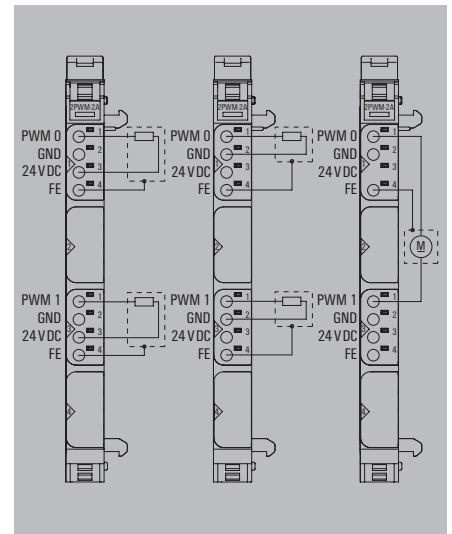
Module variants
Digital output module, PWM, 2 channels, 2 A

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

Accessories

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



Let's connect.

Analogue input modules

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

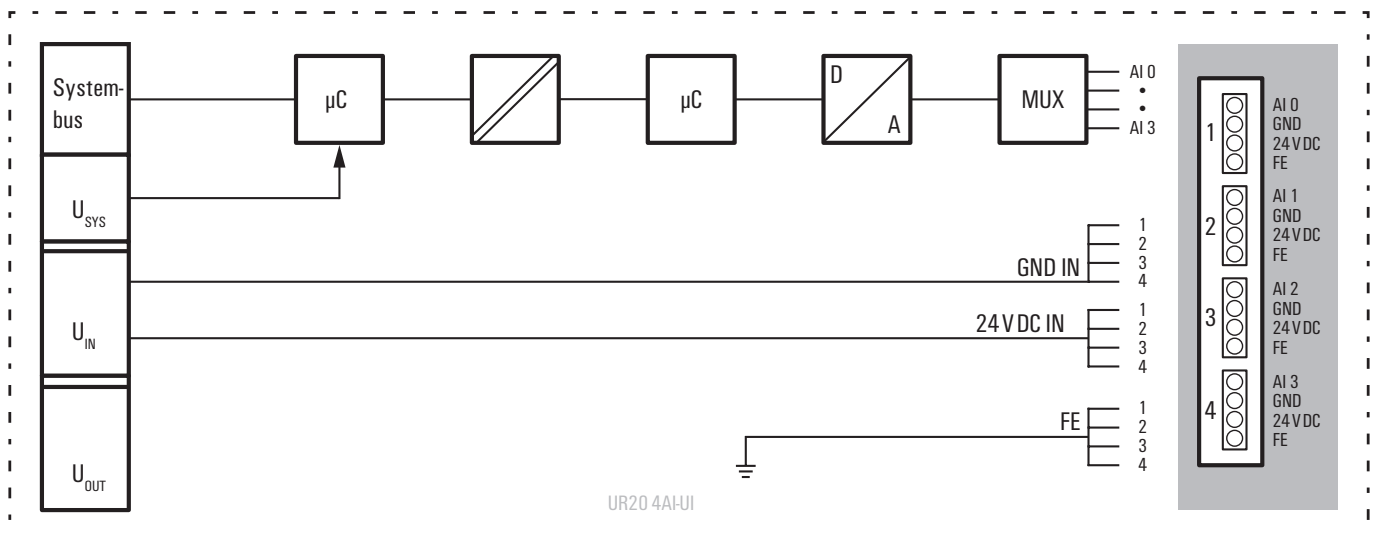
Analogue input modules of the u-remote system are available in many variants with different resolutions and wiring solutions.

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-16

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

UR20-4AI-UI-16



Technical data

System data	
Interface	u-remote system bus
Transmission 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} in the respective power segment)	25 mA + sensor feed
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
Sensor supply	yes
Sensor connection	2-wire, 3-wire, 3-wire+FE
Conversion time	1 ms
Internal resistance U	100 k Ω
Internal resistance I	41.2 Ω
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
Short-circuit-proof	yes
General data	
Weight	89 g
Dimensions (H/W/D)	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

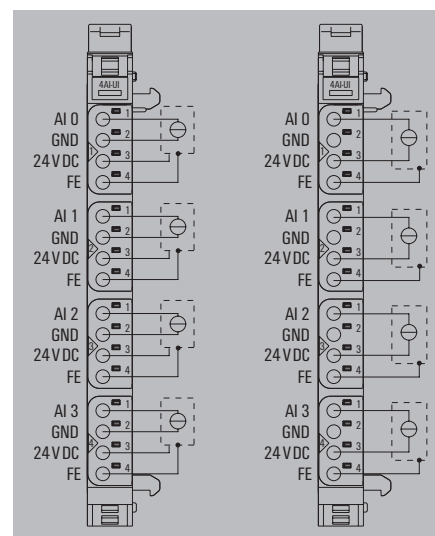
Type	Qty.	Order No.
UR20-4AI-UI-16	1	1315620000

Accessories

Accessories	
Coding elements	KDSM BH25.00
Termination kit	UR20-EBK-ACC
Swivel marker	UR20-SM-ACC
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS
Module marker for custom printing	DEK 5/8-11.5 MC SDR
Module marker for neutral	DEK 5/8-11.5 MC NE WS
Thermotransfer version (Material: Polyester)	THM UR20 GE * ¹⁾
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾
Paper version for Laserprinter	ESO UR20 DIN A4 WS * ²⁾
Replacement parts	
Electronics module	UR20-EM-1315620000-SP
Basic module	UR20-BM-SP
Plug-in connector unit	UR20-PK-1315620000-SP
Note	

Type	Qty.	Order No.
KDSM BH25.00	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.

Analogue input modules

4AI-UI-16-DIAG

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

UR20-4AI-UI-16-DIAG



Technical data

System data	
Interface	u-remote system bus
Transmission 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} in the respective power segment)	25 mA + sensor feed
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
Sensor supply	yes
Sensor connection	2-wire, 3-wire, 3-wire+FE
Conversion time	1 ms
Internal resistance U	100 k Ω
Internal resistance I	approx. 45 Ω
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	yes
Short-circuit-proof	yes
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
Analogue input module, 4 channels, 16 bits, diagnosis functions

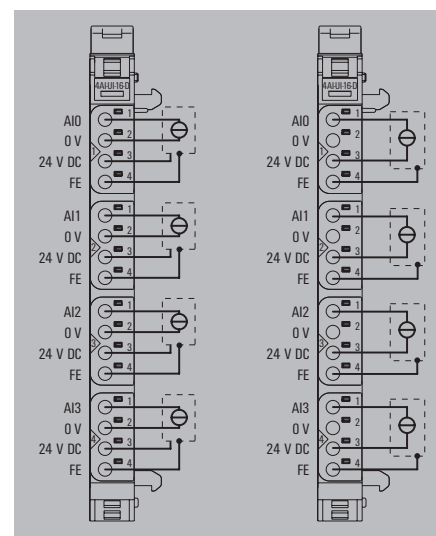
Type	Qty.	Order No.
UR20-4AI-UI-16-DIAG	1	1315690000

Accessories

Accessories	
Coding elements	KDSM BH25.00
Termination kit	UR20-EBK-ACC
Swivel marker	UR20-SM-ACC
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS
Module marker for custom printing	DEK 5/8-11.5 MC SDR
Module marker for neutral	DEK 5/8-11.5 MC NE WS
Thermotransfer version (Material: Polyester)	THM UR20 GE ^{*1)}
Thermotransfer version (Material: Polyester)	THM UR20 WS ^{*1)}
Paper version for Laserprinter	ESO UR20 DIN A4 WS ^{*2)}
Replacement parts	
Electronics module	UR20-EM-1315690000-SP
Basic module	UR20-BM-SP
Plug-in connector unit	UR20-PK-1315690000-SP
Note	

Type	Qty.	Order No.
KDSM BH25.00	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.

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

Technical data

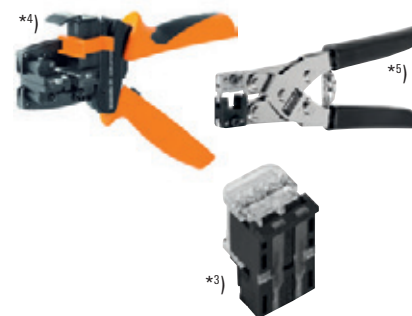
System data	
Interface	
Transmission rate of system bus	
Galvanic isolation	
Supply	
Voltage supply	
Current consumption (I_{IN} in power segment of field bus coupler), typ.	
Current consumption (I_{IN} in the respective power segment)	
Analogue inputs	
Number	
Input	
Resolution	
Accuracy	
Sensor supply	
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

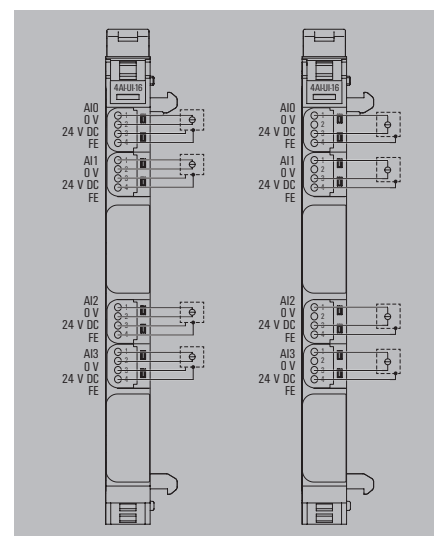
Module variants
Analogue input module, 4 channels, 16 bits, HD plug

Accessories

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

UR20-4AI-UI-16-HD

Note: Please order connector separately



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

Type	Qty.	Order No.
KDSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
UR20-PGO.35	8	1469340000
multi-stripax G-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



Let's connect.

Analogue input modules

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

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} in the respective power segment)	25 mA + sensor feed
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
Sensor supply	yes
Sensor connection	2-wire, 3-wire, 3-wire+FE
Conversion time	1 ms
Internal resistance U	100 k Ω
Internal resistance I	approx. 45 Ω
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	yes
Short-circuit-proof	yes
General data	
Weight	89 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

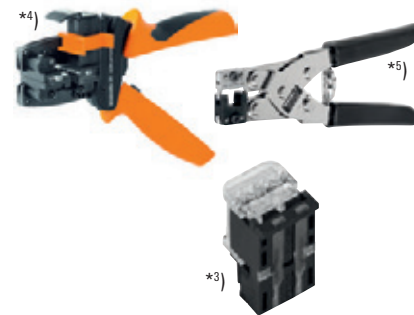
Ordering data

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

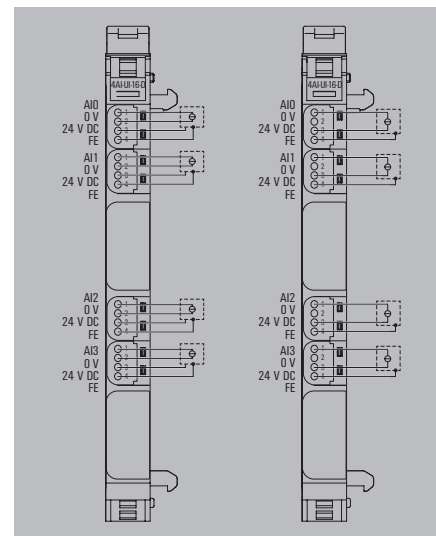
Accessories

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

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



Note: Please order connector separately



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

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-1506910000-SP	1	1515430000
UR20-BM-SP	5	1350930000
UR20-PK-1506910000-SP	5	1518820000

*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.

4AI-UI-12

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

UR20-4AI-UI-12



Technical data

System data	
Interface	u-remote system bus
Transmission 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} in the respective power segment)	25 mA + sensor feed
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	12 Bit
Accuracy	0,25 % FSR
Sensor supply	yes
Sensor connection	2-wire, 3-wire, 3-wire+FE
Conversion time	1 ms
Internal resistance U	100 k Ω
Internal resistance I	41.2 Ω
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
Short-circuit-proof	yes
General data	
Weight	87 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data

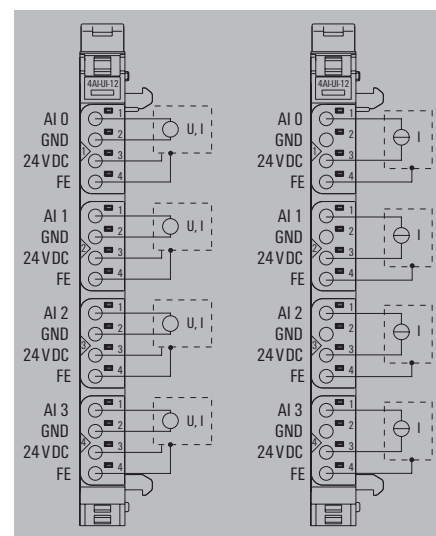
Module variants
Analogue input module, 4 channels, 12 bits

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

Accessories

Accessories	
Coding elements	KDSM BHZ5.00
Termination kit	UR20-EBK-ACC
Swivel marker	UR20-SM-ACC
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS
Module marker for custom printing	DEK 5/8-11.5 MC SDR
Module marker for neutral	DEK 5/8-11.5 MC NE WS
Thermotransfer version (Material: Polyester)	THM UR20 GE * ¹⁾
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾
Paper version for Laserprinter	ESO UR20 DIN A4 WS * ²⁾
Replacement parts	
Electronics module	UR20-EM-1394390000-SP
Basic module	UR20-BM-SP
Plug-in connector unit	UR20-PK-1394390000-SP
Note	

Type	Qty.	Order No.
KDSM 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



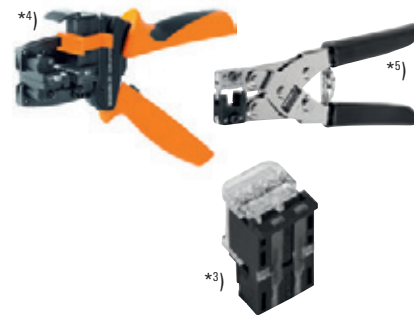
Let's connect.

Analogue input modules

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	u-remote system bus
Transmission rate of system bus	48 Mbps
Galvanic isolation	500 V DC 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} in the respective power segment)	20 mA + sensor feed
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	73 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11.5 mm x 76 mm

Ordering data

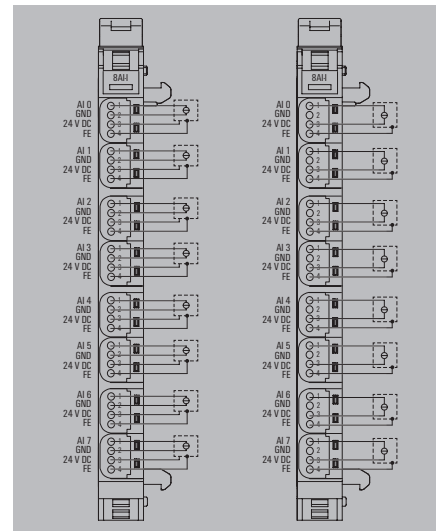
Module variants
Analogue output module, 8 channels, 16 Bits, HD-plug

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

Accessories

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.
KDSM BHZ5.00	100	1483050000
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
UR20-PG0.35	8	1469340000
multi-stripax G-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
ESD UR20 DIN A4 WS *2)	10	1429430000
UR20-EM-1315650000-S	1	1347240000
UR20-BM-SP	5	1350930000
UR20-PK-1315650000-SP	5	1559740000
*1) 1 roll = 1000 label = 1 Qty.		
*2) 1 sheet = 60 label = 1 Qty.		



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

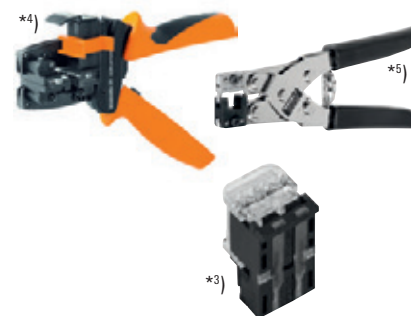


Let's connect.

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	
Input	
Resolution	
Accuracy	
Sensor supply	
Sensor connection	
Conversion time	
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	
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	

Ordering data

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

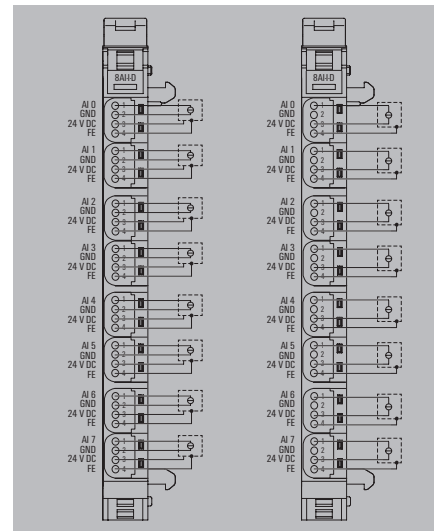
Type	Qty.	Order No.
UR20-8AI-I-16-DIAG-HD	1	1315720000

Accessories

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 BHZ.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-1315720000-SP	1	1347320000
UR20-BM-SP	5	1350930000
UR20-PK-1315720000-SP	5	1559750000

*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.

Analogue input modules

8AI-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-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

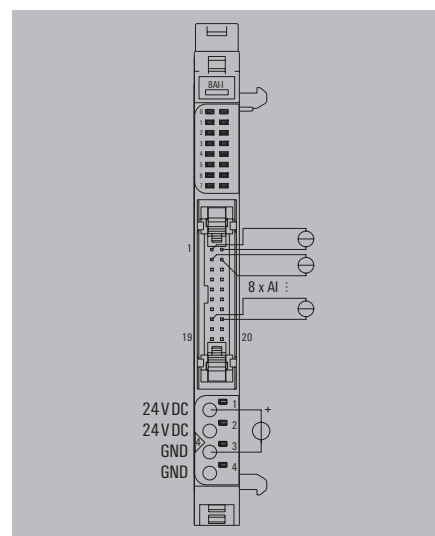
Type	Qty.	Order No.
UR20-8AI-PLC-INT	1	1315670000

Accessories

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
PLC interface element
Pre-assembled cable, 1m
Note

Type	Qty.	Order No.
KDSM 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-1315670000-SP	1	1347250000
UR20-BM-SP	5	1350930000
UR20-PK-1315670000-SP	5	1483950000
RS 16IO 1W H S	1	9445700000
PAC-UNIV-HE20-LCH-1M	1	7789306010

^{*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



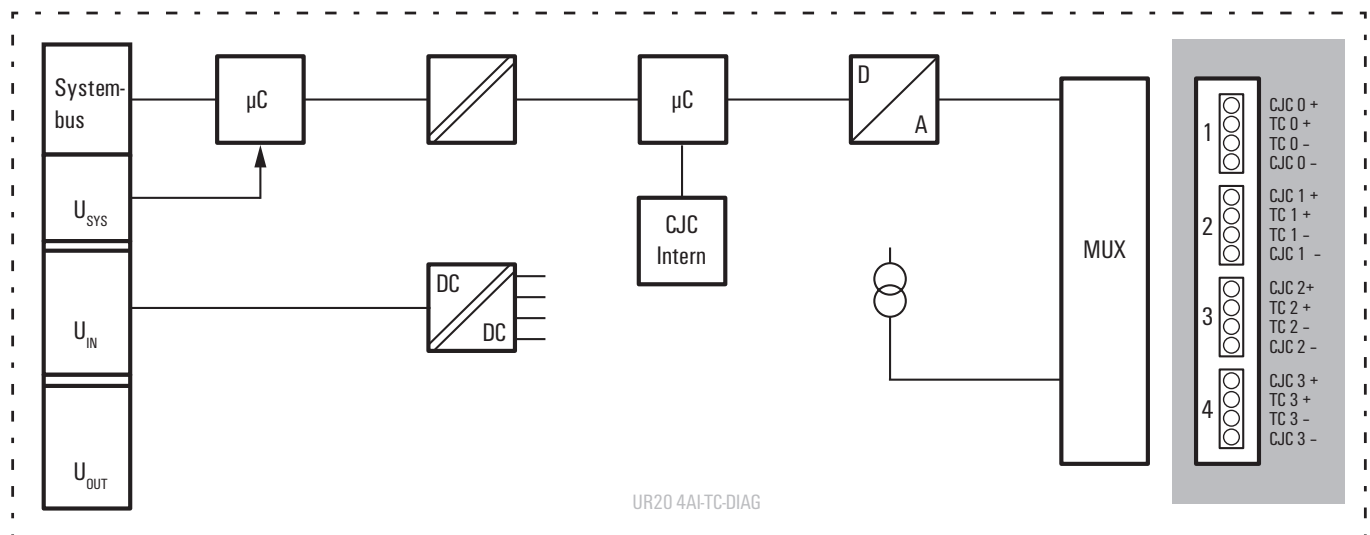
Let's connect.

Temperature modules

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.

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 μ V
2-wire
internal and external (int. accuracy $\leq$ 3 K)
50 ppm/K
-200...+2315 °C
36...240 ms, adjustable
> 1 M Ω
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

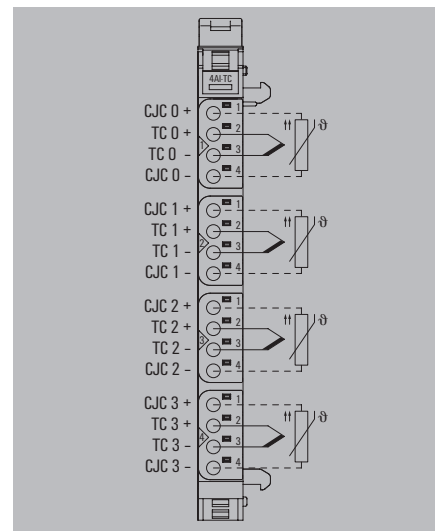
Type	Qty.	Order No.
UR20-4AI-TC-DIAG	1	1315710000

Accessories

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
ESD UR20 DIN A4 WS ^{*2)}	10	1429430000
UR20-EM-1315710000-SP	1	1435740000
UR20-BM-SP	5	1350930000
UR20-PK-1315710000-SP	5	1484050000

^{*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	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} in the respective power segment)	20 mA
Analogue inputs	
Number	4
Sensor type	Pt100, Pt200, Pt500, Pt1000, Ni100, Ni120, Ni200, Ni500, Ni1000, Cu10, resistors with 40 Ω , 80 Ω , 150 Ω , 300 Ω , 500 Ω , 1 k Ω , 2 k Ω , 4 k Ω
Resolution	16 Bit
Sensor current	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 k Ω , 2 k Ω , 4 k Ω)
Accuracy	0.2 % FSR, 0.3 % FSR for Ni sensors, 0.6 % FSR for Cu10
Sensor connection	2-wire, 3-wire, 4-wire
Temperature coefficient	50 ppm/K
Temperature range	-200...+850 °C
Conversion time	36...240 ms adjustable
Internal resistance	> 1 M Ω
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	yes
General data	
Weight	91 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm) x 11,5 mm x 76 mm

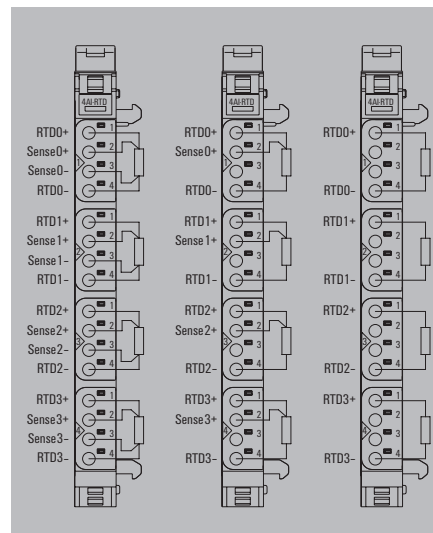
Ordering data

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

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-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.

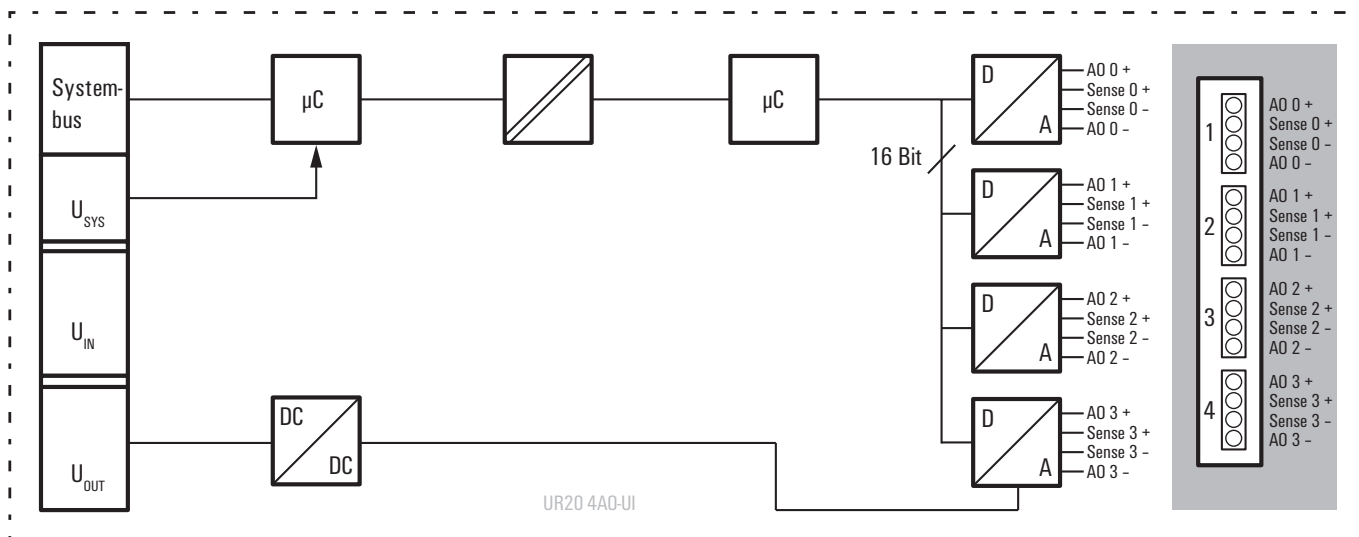
Analogue output module

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

The analogue output module controls up to 4 analogue actuators with $\pm 10\text{ V}$, $\pm 5\text{ V}$, $0\ldots 10\text{ V}$, $0\ldots 5\text{ V}$, $2\ldots 10\text{ V}$, $1\ldots 5\text{ V}$, $0\ldots 20\text{ mA}$ or $4\ldots 20\text{ mA}$ 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

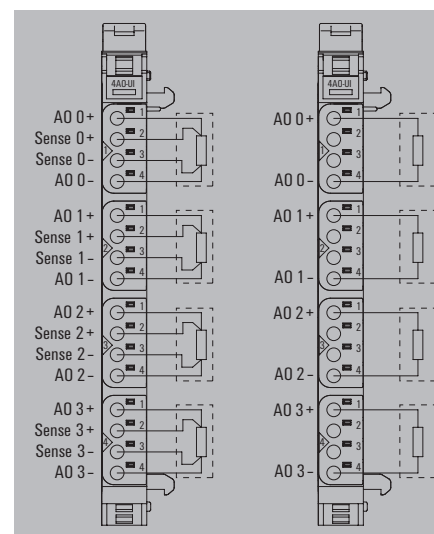
System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbps
Galvanic isolation	DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I_{IN} in power segment of field bus coupler), typ.	8 mA
Current consumption (I_{OUT} in the respective power segment)	85 mA
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 k Ω (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
Replacement values	yes
General data	
Weight	83 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11,5 mm x 76 mm

Ordering data

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

Accessories

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-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.

Analogue output module

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	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_{OUT} in the respective power segment)	85 mA
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 k Ω (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	yes
Replacement values	yes
General data	
Weight	98 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11,5 mm x 76 mm

Ordering data

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

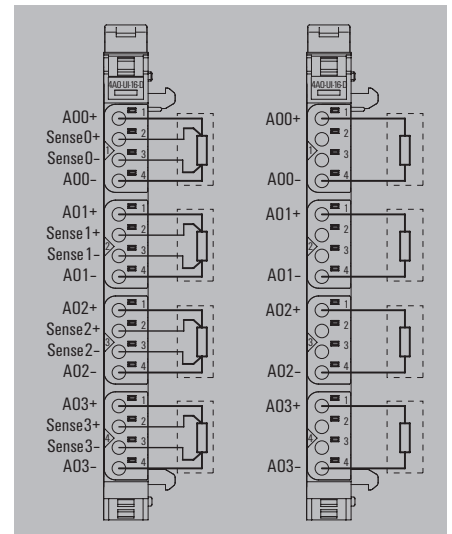
Type	Qty.	Order No.
UR20-4AO-UI-16-DIAG	1	1315730000

Accessories

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.
KDSM BH25.00	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 reactive
- Short-circuit-proof

Technical data

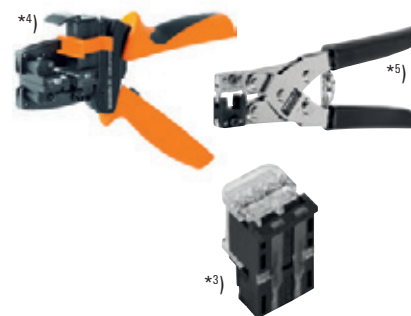
System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbps
Galvanic isolation	DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / - 15 % via the system bus
Current consumption (I_{IN} in power segment of field bus coupler), typ.	8 mA
Current consumption (I_{OUT} in the respective power segment)	85 mA
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	$\pm 0,1$ % FSR max., 0,05 % FSR typ.
Load resistance, voltage output	$> 1\text{ k}\Omega$ (at $> 50^\circ\text{C}$ ambient temperature max. sum of sensor current = 25 mA)
Load resistance, current output	$< 600\ \Omega$
Actuator connection	2-wire (current and voltage; automatic detection), 4-wire (voltage)
Temperature coefficient	20 ppm Voltage / 31 ppm current measurement / $^\circ\text{K}$
Max. error between T min. and T max.	220 ppm FSR
Monotonicity	yes
Crosstalk between the channels	± 0.001 % FSR
Repeat accuracy	$< 1\text{ mV}$ 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 lever) 128 mm x 11.5 mm x 76 mm

Ordering data

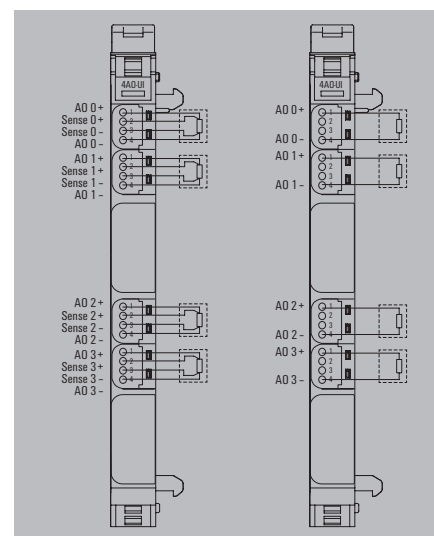
Module variants
Analogue output module, 4 channels, 16 Bits, HD-plug

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

UR20-4AO-UI-16-HD

Note: Please order connector separately



Type	Qty.	Order No.
UR20-4AO-UI-16-HD	1	1510690000
Accessories		
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
Replacement parts		
UR20-EM-1510690000-SP	1	1515470000
UR20-BM-SP	5	1350930000
UR20-PK-1510690000-SP	5	1531830000
^{*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.

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

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_{OUT} in the respective power segment)	85 mA
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 k Ω (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 max.
Repeat accuracy	< 1 mV effectively
Output waviness	max. 0.001 %
Module diagnosis	yes
Individual channel diagnosis	yes
Replacement values	yes
General data	
Weight	98 g
Dimensions (H/W/D)	120 mm (with catch lever) 128 mm x 11.5 mm x 76 mm

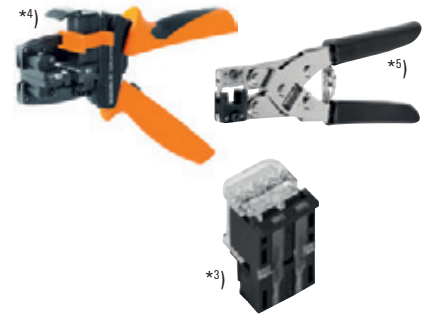
Ordering data

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

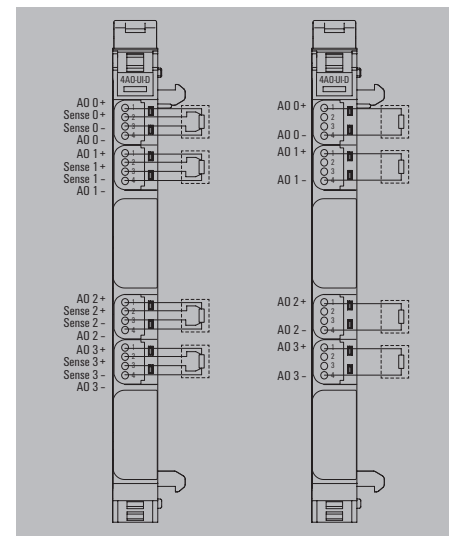
Accessories

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

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



Note: Please order connector separately



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



Let's connect.

1CNT-100-1D0

- 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-100-1D0**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} in the respective power segment)	35 mA
Digital Inputs	
Number of counter inputs	1
Type	incremental encoder
Input filter	adjustable up to 1 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor feed	yes
Sensor connection	2- and 3-wire
Reverse polarity protection	yes
Module diagnosis	yes
Single channel diagnosis	yes
Input current per channel, max.	3.5 mA
Counter data width	32 Bit
Input frequency, max.	100 kHz
Counter frequency, max.	400 kHz
Latch-, Gate-, Reset-input	yes
Operation mode	Impulse / direction / 1-, 2-, 4-times
General data	
Weight	87 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, 100 kHz

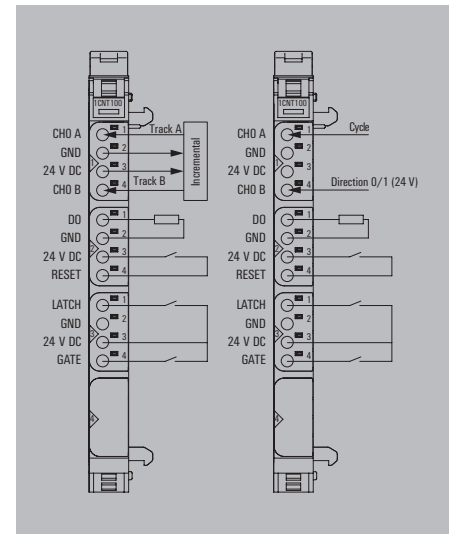
Type	Qty.	Order No.
UR20-1CNT-100-1D0	1	1315570000

Accessories

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.
KDSM 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-1315570000-SP	1	1347140000
UR20-BM-SP	5	1350930000
UR20-PK-1315570000-SP	5	1346520000

^{*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.

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

Replacement parts

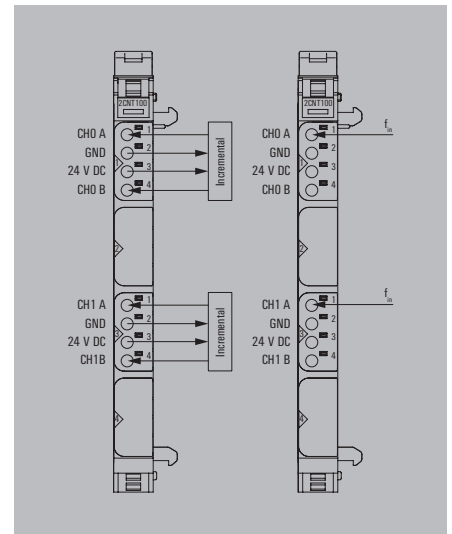
Electronics module
Basic module
Plug-in connector unit

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-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



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
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}

Digitale Eingänge

Number of counter inputs
Type
Input filter
Sensor supply

Short-circuit-proof
Module diagnosis
Individual channel diagnosis
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
20 mA

1
Incremental encoder
adjustable up to 1 ms
max. 0.5 A at 24 V
max. 0.4 A at 5 V
yes
yes
no
32 Bit
500 kHz
Impuls / direction / 1-, 2-, 4-times

72 g
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
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

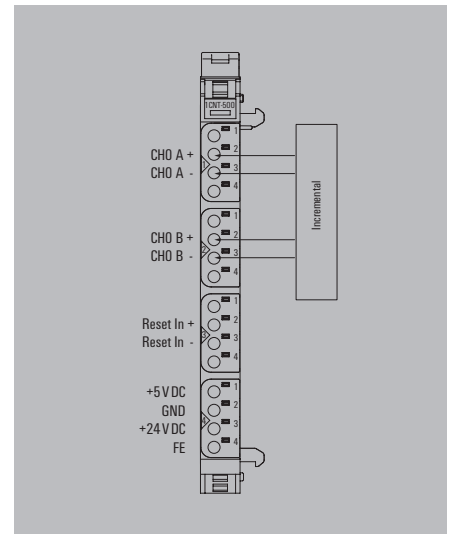
Replacement parts

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
ESD UR20 DIN A4 WS ^{*2)}	10	1429430000
UR20-EM-1315580000-SP	1	1347170000
UR20-BM-SP	5	1350930000
UR20-PK-1315580000-SP	5	1346530000

^{*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 508



Let's connect.

2FCNT-100

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

UR20-2FCNT-100



Technical data

System data	
Interface	u-remote system bus
Transmission 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} in the respective power segment)	35 mA
Digital Inputs	
Number of counter inputs	2
Type	digital input
Input filter	adjustable up to 1 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor feed	yes
Sensor connection	2- and 3-wire
Reverse polarity protection	yes
Module diagnosis	yes
Single channel diagnosis	no
Input current per channel, max.	3.5 mA
Counter data width	32 Bit
Input frequency, max.	100 kHz
Operation mode	Impulse
General data	
Weight	87 g
Dimensions (H/W/D)	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

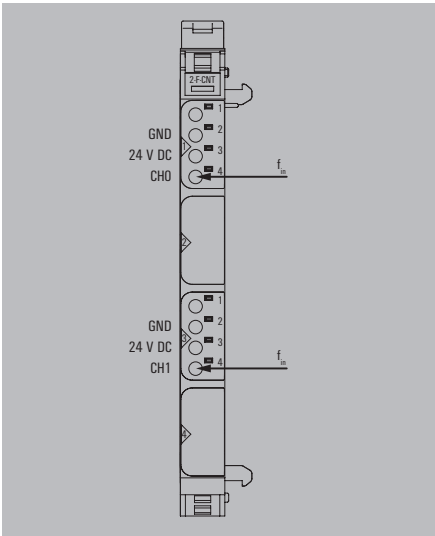
Type	Qty.	Order No.
UR20-2FCNT-100	1	1508080000

Accessories

Accessories	
Coding elements	KDSM BHZ5.00
Termination kit	UR20-EBK-ACC
Swivel marker	UR20-SM-ACC
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS
Module marker for custom printing	DEK 5/8-11.5 MC SDR
Module marker for neutral	DEK 5/8-11.5 MC NE WS
Thermotransfer version (Material: Polyester)	THM UR20 GE * ¹⁾
Thermotransfer version (Material: Polyester)	THM UR20 WS * ¹⁾
Paper version for Laserprinter	ESO UR20 DIN A4 WS * ²⁾
Replacement parts	
Electronics module	UR20-EM-1508080000-SP
Basic module	UR20-BM-SP
Plug-in connector unit	UR20-PK-1508080000-SP
Note	

Type	Qty.	Order No.
KDSM 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	
Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508



Let's connect.

1SSI

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

UR20-1SSI



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 μ s, 2 μ s, 4 μ s, 8 μ s, 16 μ s, 32 μ s, 48 μ s, 64 μ s

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.
UR20-1SSI	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

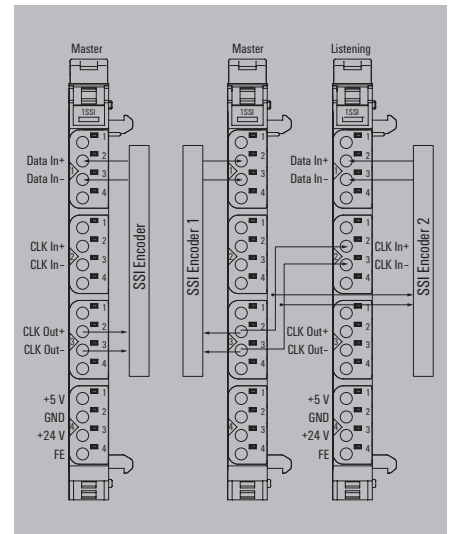
Replacement parts

Electronics module
Basic module
Plug-in connector unit

Note

Type	Qty.	Order No.
KDSM 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-1508090000-SP	1	1515490000
UR20-BM-SP	5	1350930000
UR20-PK-1508090000-SP	5	1559870000

^{*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 508



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	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} in the respective power segment)	50 mA + load
RS Interface	
Number	1
Connection	1x RS232 / 1x RS485/422
Transmission rate	configurable, 300... 115200 Bit/s
Supply voltage	5 V / 24 V
Output current Supply voltage, max.	0.5 A
RS232 standards	DIN 66020, DIN 66259, EIA-RS 232C, CCITT V.24/V.28
RS485/422 standards	DIN 66259 Part 1 and 3, EIA-RS422/485, CCITT V.11
Short-circuit-proof	yes
Module diagnosis	yes
Individual channel diagnosis	yes
General data	
Weight	92 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data

Module variants
RS232/RS485/RS422 communication module

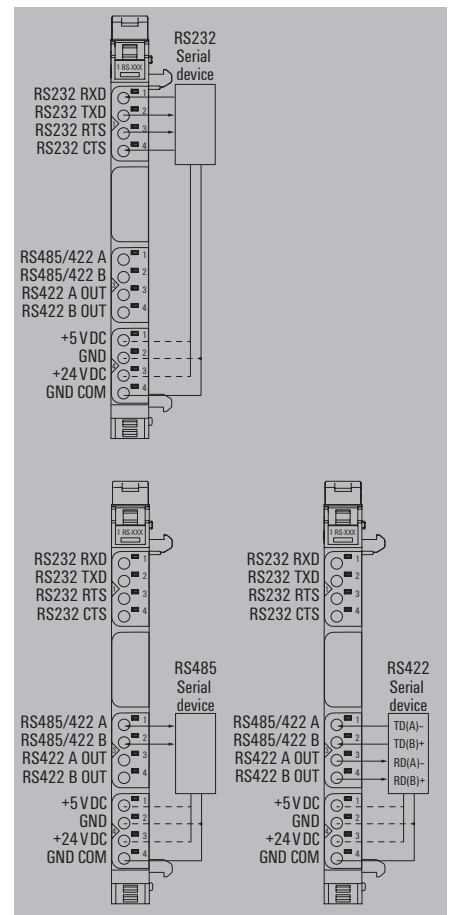
Accessories

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

Type	Qty.	Order No.
KDSM 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-1315750000-SP	1	1347350000
UR20-BM-SP	5	1350930000
UR20-PK-1315750000-SP	5	2425150000

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



Product standard	IEC 61131-2
EMC (in preparation)	EN 61000
ATEX (in preparation)	EN 60079
UL (in preparation)	UL 61010-2-201
MSIP (in preparation)	MSIP-REM-WMG-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	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} in the respective power segment)	20 mA + SAI supply current
IP67 Interface	
Number	1
Connection	SAI-PRO Subbus
Transmission rate	250 kbit/s, 500 kbit/s configurable
Supply voltage	+24 V DC
Output current Supply voltage	max. 3 A
Short-circuit-proof	yes
Module diagnosis	yes
Individual channel diagnosis	yes, diagnosis of the Subbus modules
General data	
Weight	87 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data

Module variants	
IP20-IP67 communication module	

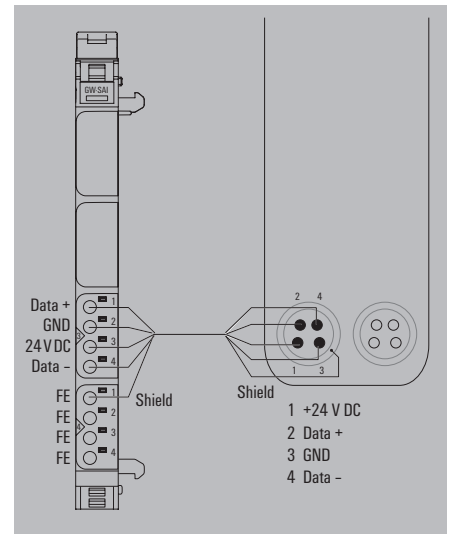
Type	Qty.	Order No.
UR20-1COM-SAI-PRO	1	2007430000

Accessories

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-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 (in preparation)	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.

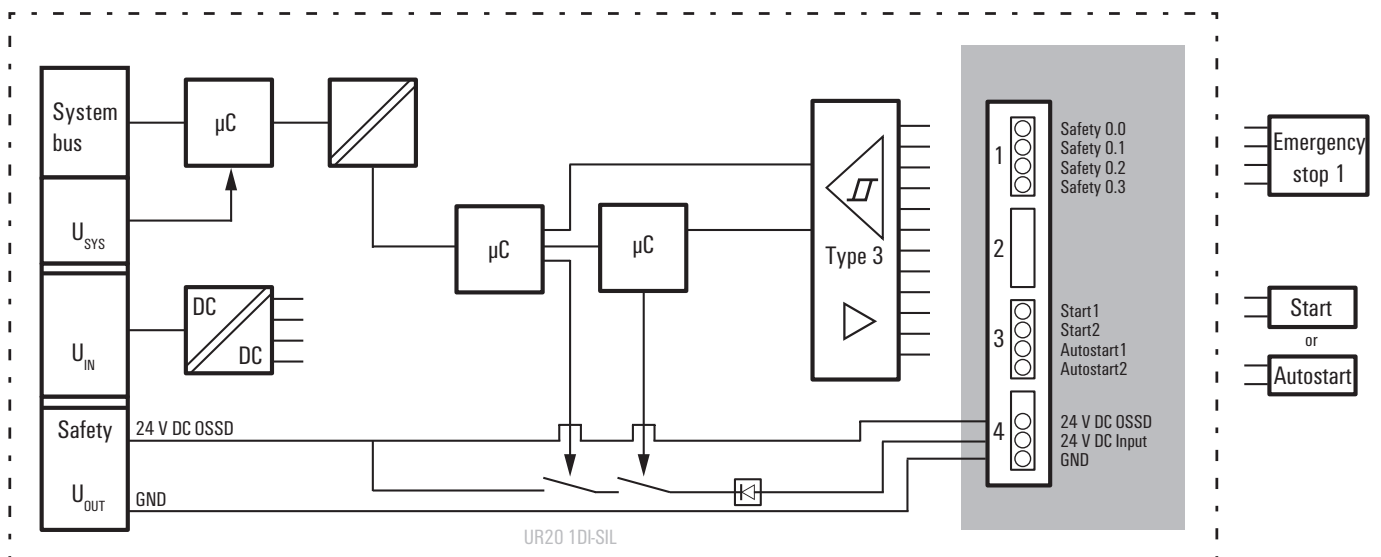
The safe power-feed modules of the u-remote system have key features such as emergency stop circuits and wire breakage/ short-circuit detection. They satisfy all SIL 3 requirements according to IEC 62061 and EN ISO 13849-1, Category 4, PL e and support the safe operation of your system.

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 Outputs
Diagnostic Coverage DC_{AVE} (IEC 62061)	
Diagnostic Coverage (DIN EN ISO 13849)	
MTTF _a (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

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

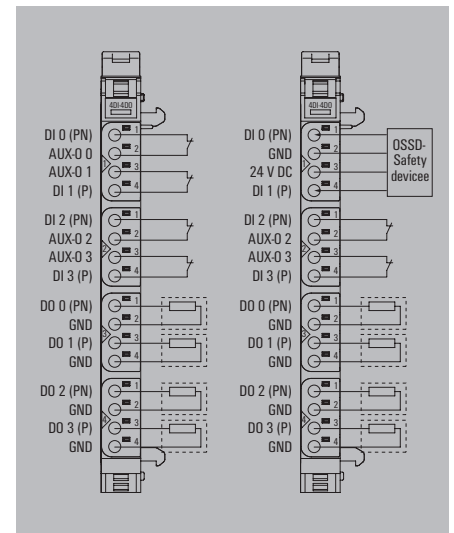
System data	
u-remote system bus	
48 Mbps	
DC 500 V between current paths	
Safety-related data	
SIL 3 (IEC 61508), SILCL 3 (IEC 62061), PL _e and Cat. 4 (DIN EN ISO 13849-1)*	
SIL 3 (IEC 61508), SILCL 3 (IEC 62061), PL _e and Cat. 4 (DIN EN ISO 13849-1)*	
Input: 0.921; output: 0.969	
Input, single channel: 90%; dual channel: 99%; Output: 99%	
> 100 Years (Input: 4488a, output: 3067a)	
Input, single channel: $2 \cdot 10^{-9}$; dual channel: $4.07 \cdot 10^{-11}$; Output: $2.02 \cdot 10^{-11}$	
Input: 0.978; output: 0.989	
Input, single channel: 0; dual channel: 1; Output: 1	
Supply	
24 V DC $\pm 20\%$ / -15% via the system bus	
8 mA	
< 30 mA + sensor feed	
Inputs	
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	
Outputs	
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 μ s	
yes	
yes	
no	
General data	
87 g	
120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm	

Type	Qty.	Order No.
UR20-4DI-4DO-PN-FSOE	1	1529780000

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

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
Replacement parts		
UR20-EM-1529780000-SP	1	1992960000
UR20-BM-SP	5	1350930000
UR20-PK-1529780000-SP	5	1993030000

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



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



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

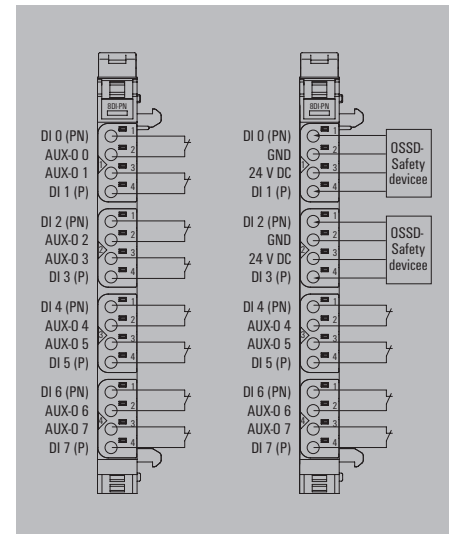
System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbps
Galvanic isolation	DC 500 V between current paths
Safety-related data	
Achievable safety level	SIL 3 (IEC 61508), SILCL 3 (IEC 62061), PL _e and Cat. 4 (DIN EN ISO 13849-1)*
Diagnostic Coverage DC _{AVE} (IEC 62061)	0.921
Diagnostic Coverage (DIN EN ISO 13849)	Single channel: 90%; dual channel: 99%
MTTF _a (Mean Time To Failure dangerous)	> 100 Years (4488a)
PFH (Probability of Failure per Hour in 1/h)	Single channel: 2*10 ⁻⁸ ; dual channel: 4.07*10 ⁻¹¹
SSF (Safe Failure Fraction)	0.978
HFT (Hardware Fault Tolerance)	Single channel: 0; dual channel: 1
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}	< 30 mA + sensor feed
Inputs	
Number	8, four of them are parametrisable P- or N-switching
Input Type	Type 1 and Type 3 as per IEC 61131-2*
Input filter	Input delay adjustable from 0 to 40 ms*
Input voltage low	P-switching: <5 V; N-switching: >-5 V against +24 V
Input voltage high	P-switching: >11 V; N-switching: <-11 V against +24 V
Sensor supply	max. 0.8 A per plug, total max. 3.2 A
Sensor connection	2-wire, 3-wire, 4-wire
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	yes
General Data	
Weight	87 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 11.5 mm x 76 mm

Ordering data

Module variants	Type	Qty.	Order No.
Safety module FSOE, 8 digital inputs	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

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	1483050000
Termination kit	UR20-EBK-ACC	5	1346610000
Swivel marker	UR20-SM-ACC	20	1339920000
Connection marker for pusher custom printing	PM 2.7/2.6 MC SDR	192	1323700000
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	1323710000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE *)	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS *)	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS *)	10	1429430000
Replacement parts			
Electronics module	UR20-EM-1529800000-SP	1	1992970000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	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 (in preparation)	EN 60079
UL (in preparation)	UL 508



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 Outputs
Diagnostic Coverage DC_{AVE} (IEC 62061)	
Diagnostic Coverage (DIN EN ISO 13849)	
MTTF _a (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

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



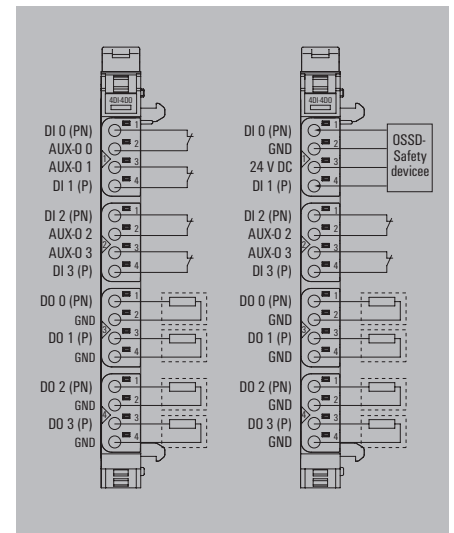
System data	
u-remote system bus	
48 Mbps	
DC 500 V between current paths	
Safety-related data	
SIL 3 (IEC 61508), SILCL 3 (IEC 62061), PL _e and Cat. 4 (DIN EN ISO 13849-1)*	
SIL 3 (IEC 61508), SILCL 3 (IEC 62061), PL _e and Cat. 4 (DIN EN ISO 13849-1)*	
Input: 0.921; output: 0.969	
Input, single channel: 90%; dual channel: 99%; Output: 99%	
> 100 Years (Input: 4488a, output: 3067a)	
Input, single channel: $2 \cdot 10^{-9}$; dual channel: $4.07 \cdot 10^{-11}$; Output: $2.02 \cdot 10^{-11}$	
Input: 0.978; output: 0.989	
Input, single channel: 0; dual channel: 1; Output: 1	
Supply	
24 V DC $\pm 20\%$ / -15% via the system bus	
8 mA	
< 30 mA + sensor feed	
Inputs	
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	
Outputs	
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 μ s	
yes	
yes	
no	
General data	
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.weidmuller.de or scan the QR code below.

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
Replacement parts		
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 (in preparation)	EN 60079
UL (in preparation)	UL 508



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_{AVE} (IEC 62061)	
Diagnostic Coverage (DIN EN ISO 13849)	
MTTF _a (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), PL _e and Cat. 4 (DIN EN ISO 13849-1)*
0.921
Single channel: 90%; dual channel: 99%
> 100 Years (4488a)
Single channel: $2 \cdot 10^{-8}$; dual channel: $4.07 \cdot 10^{-11}$
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

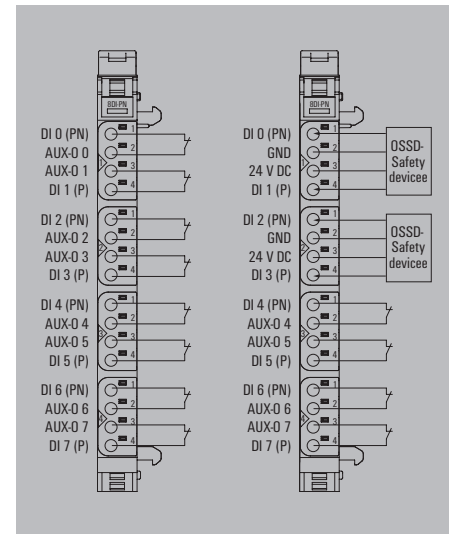
*) For this and additional technical data, please refer to the manual available at www.weidmueller.de or scan the QR code below.

Accessories

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-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 (in preparation)	EN 60079
UL (in preparation)	UL 508



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	u-remote system bus
Transmission rate of 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 _a	> 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	

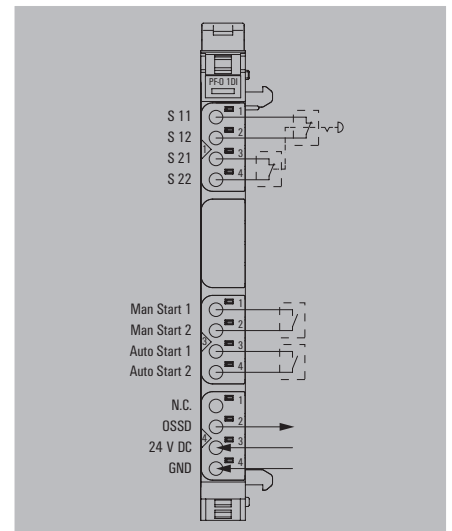
Type	Qty.	Order No.
UR20-PF-O-1DI-SIL	1	1335030000

Accessories

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-1335030000-SP	1	1347520000
UR20-BM-SIL-SP	5	1350970000
UR20-PK-1335030000-SP	5	1346560000

*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.

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 = $6.27 \cdot 10^{-9}$ 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

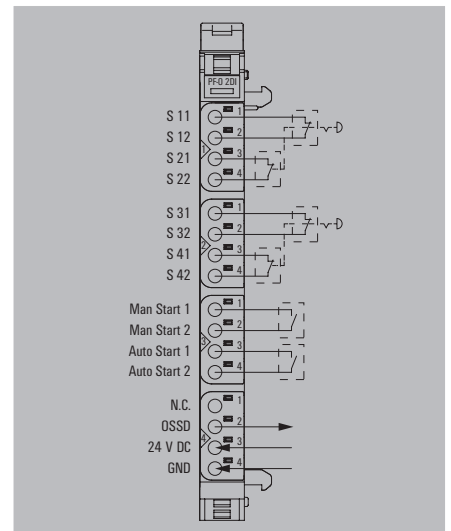
Electronics module
Basic module
Plug-in connector unit

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



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

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

84 g
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
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

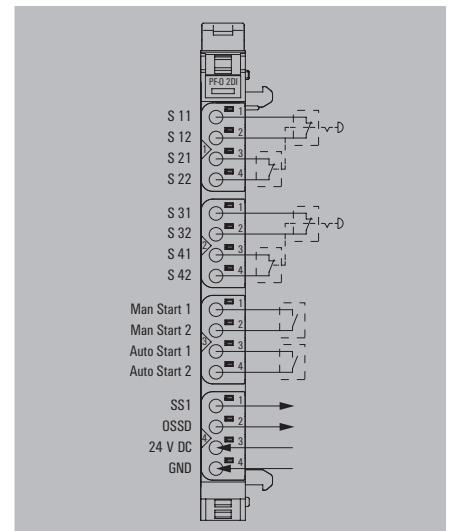
Electronics module
Basic module
Plug-in connector unit

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-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.



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



Let's connect.

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

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) 128 mm x 11,5 mm x 76 mm

Ordering data

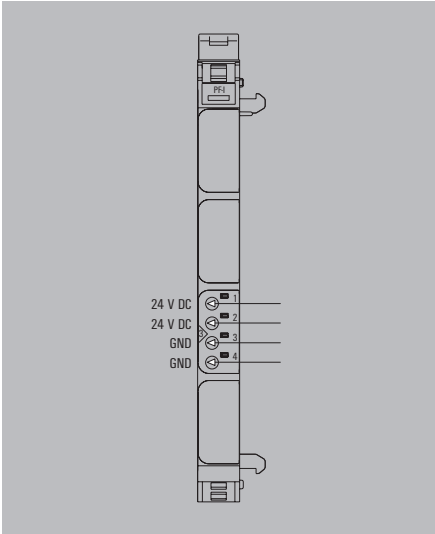
Module variants
Power supply module

Type	Qty.	Order No.
UR20-PF-I	1	1334710000

Accessories

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
ESD 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.

Power-feed modules

PF-0

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

UR20-PF-0



Technical data

Supply
Voltage supply for outputs
Maximum feed current for output modules
Current consumption (I_{OUT} 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)128 mm) x 11,5 mm x 76 mm

Ordering data

Module variants
Power supply module

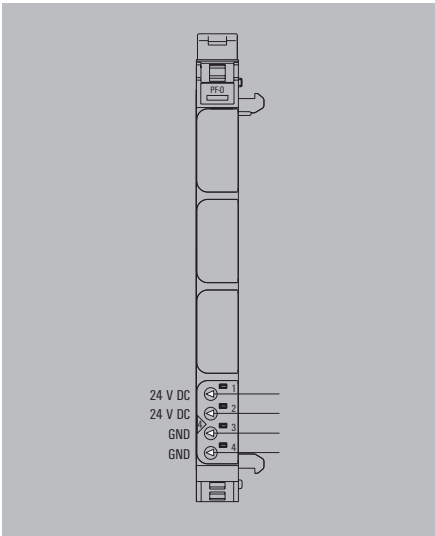
Type	Qty.	Order No.
UR20-PF-0	1	1334740000

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
ESD UR20 DIN A4 WS * ²⁾	10	1429430000
UR20-EM-1334740000-SP	1	1347420000
UR20-BM-PF-0-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



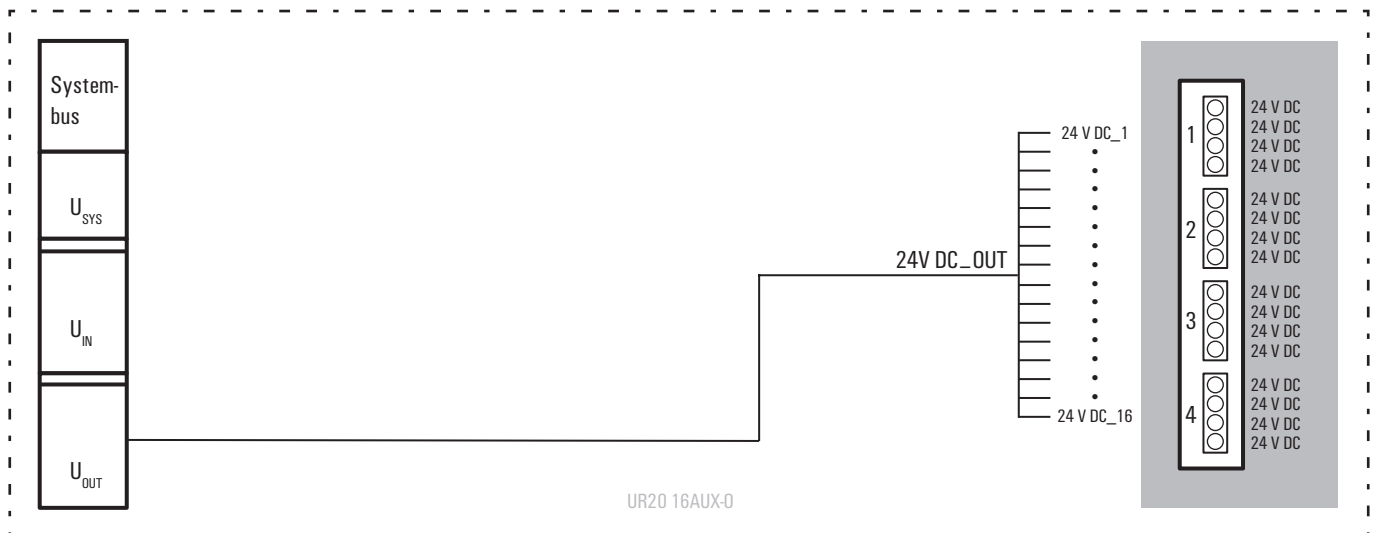
Let's connect.

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-0 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

General data

Weight

Dimensions (H/W/D)

24 V DC +20 % / -15 % via Input- or output path / FE

84 g

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
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

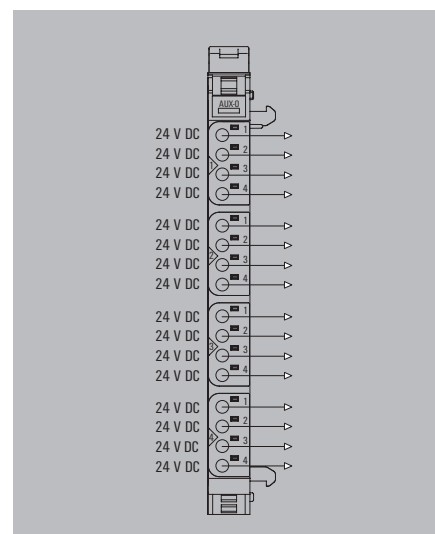
Electronics module

Basic module

Plug-in connector unit

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-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

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



Note

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) 128 mm x 11,5 mm x 76 mm

Ordering data

Module variants

Empty module

Type	Qty.	Order No.
UR20-ES	1	1315770000

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
ESD UR20 DIN A4 WS ^{*2)}	10	1429430000

UR20-EM-1315770000-SP	1	1347370000
UR20-BM-SP	5	1350930000
UR20-PK-1315770000-SP	5	1346510000

^{*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-1315770000



Let's connect.

Termination kit

- Includes an end plate and two end brackets

UR20-EBK



Ordering data

Module variants

Termination kit

Type	Qty.	Order No.
UR20-EBK-ACC	5	1346610000

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?

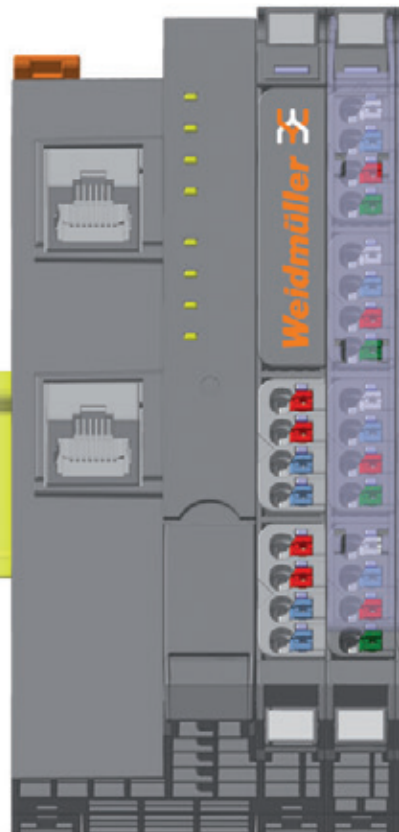
Bus	Type	Order No.	Page
PROFIBUS	UR20-FBC-PB-DP	1334870000	A.9
PROFINET	UR20-FBC-PN-IRT	1334880000	A.11
EtherCAT	UR20-FBC-EC	1334910000	A.13
Modbus	UR20-FBC-MOD-TCP	1334930000	A.15
EtherNet/IP	UR20-FBC-EIP	1334920000	A.17
DeviceNet	UR20-FBC-DN	1334900000	A.19
CANopen	UR20-FBC-CAN	1334890000	A.21

2. What signals do you want to process?

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	Order No.	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

2. What signals do you want to process?

Analogue inputs	Order No.	Page
UR20-4AI-UI-16	1315620000	A.59
UR20-4AI-UI-16-DIAG	1315690000	A.60
UR20-4AI-UI-16-HD	1506920000	A.61
UR20-4AI-UI-16-DIAG-HD	1506910000	A.62
UR20-4AI-UI-12	1394390000	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-TC-DIAG	1315710000	A.69
UR20-4AI-RTD-DIAG	1315700000	A.70
Analogue outputs	Order No.	Page
UR20-4AO-UI-16	1315680000	A.73
UR20-4AO-UI-16-DIAG	1315730000	A.74
UR20-4AO-UI-16-HD	1510690000	A.75
UR20-4AO-UI-16-DIAG-HD	1506930000	A.76
Further functional modules	Order No.	Page
UR20-1CNT-100-1DO	1315570000	A.79
UR20-2CNT-100	1315590000	A.80
UR20-1CNT-500	1315580000	A.81
UR20-2FCNT-100	1508080000	A.82
UR20-1SSI	1508090000	A.83
UR20-1COM-232-485-422	1315750000	A.84
UR20-1COM-SAI-PRO	2007430000	A.85
UR20-4DI-4DO-PN-FSOE	1529780000	A.87
UR20-8DI-PN-FSOE	1529800000	A.88
UR20-4DI-4DO-PN-FSPS	1335060000	A.89
UR20-8DI-PN-FSPS	1335070000	A.90
UR20-PF-Q-1DI-SIL	1335030000	A.91
UR20-PF-Q-2DI-SIL	1335050000	A.92
UR20-PF-Q-2DI-DELAY-SIL	1335040000	A.93



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.95
UR20-PF-O	1334740000	A.96

4. AUX and accessories

AUX	Order No.	Page
UR20-16AUX-I	1334770000	A.99
UR20-16AUX-O	1334780000	A.99
UR20-16AUX-FE	1334790000	A.99
UR20-16AUX-GND-I	1334800000	A.99
UR20-16AUX-GND-O	1334810000	A.99
Accessories		Page
End bracket	1346610000	A.99
Swivel marker	1339920000	A.99
Connection marker for pusher custom printing	1323700000	A.99
Connection marker for pusher neutral	1323710000	A.99
Module marker for custom printing	1341610000	A.99
Module marker for neutral	1341630000	A.99
Empty module	1315770000	A.99
Thermotransfer version (Material: Polyester)	1429910000	A.99
Thermotransfer version (Material: Polyester)	1429420000	A.99
Paper version for Laserprinter	1429430000	A.99

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 calculation of simultaneity factor per module	Current requirement of system - cumulative	Current requirement of system - cumulative with UR20-PF-O
1st module	UR20-8DO-P	0.5	0.5	0.25	0.25	0.25
2nd module	UR20-8DO-P	0.3	0.5	0.15	0.4	0.4
3rd module	UR20-8DO-P	2.0	0.7	1.4	1.8	1.8
4th module	UR20-8DO-P	2.0	0.5	1	2.8	2.8
5th module	UR20-8DO-P	2.0	0.3	2	4.8	4.8
6th module	UR20-8DO-P	0.5	0.2	0.1	4.9	4.9
7th module	UR20-8DO-P	1.0	0.1	0.75	5.65	5.65
8th module	UR20-8DO-P	1.0	0.2	0.2	5.85	5.85
9th module	UR20-8DO-P	1.2	0.5	0.6	6.45	6.45
10th module	UR20-8DO-P	2.0	1.0	2	8.45	8.45
	UR20-PF-O					
11th module	UR20-8DO-P	2.0	1.0	2	10.45	2
12th module	UR20-8DO-P	3.0	1.0	1	11.45	3
13th module	UR20-8DO-P	2.0	1.0	2	13.45	5

Current requirement exceeds 10 A!

The output current path therefore needs an additional supply before the 11th module.

10 A 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!

Modular Communication. Robust. SAI Active.



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 SAI Active product family solves this problem by means of IP 67 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.



IP 67

IP 67	Introduction	B.2
	Quick select – SAI Active	B.6
	SAI Active Universal – Overview	B.8
	SAI Active Universal – CANopen	B.10
	SAI Active Universal – DeviceNet™	B.14
	SAI Active Universal Pro – Overview	B.18
	SAI Active Universal Pro	B.20
	Accessories for sensor cables	B.28

Remote I/O system in class of protection IP 67 for SAI Active family

Flexible sensor/actuator coupling to control systems in IP 67 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 reach, but also the volume of these signals may be very large so that fieldbuses and IO systems can be used to collect the signals locally.

The SAI Active product family solves this problem by means of IP 67 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.

Direct incorporation in the SYS 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.

Rapid fault rectification

Rapid definition of causes in the event of faults by providing extended diagnostic data to the control unit and on the device itself.



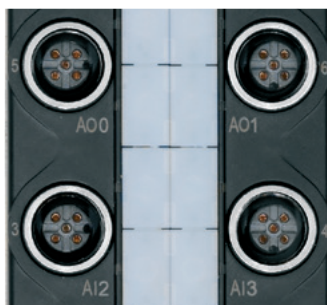
Efficient engineering

Direct incorporation and configuration in the standard PLC engineering systems (such as Step 7, RS-Logix, CX-Configurator, MELSEC, ...)

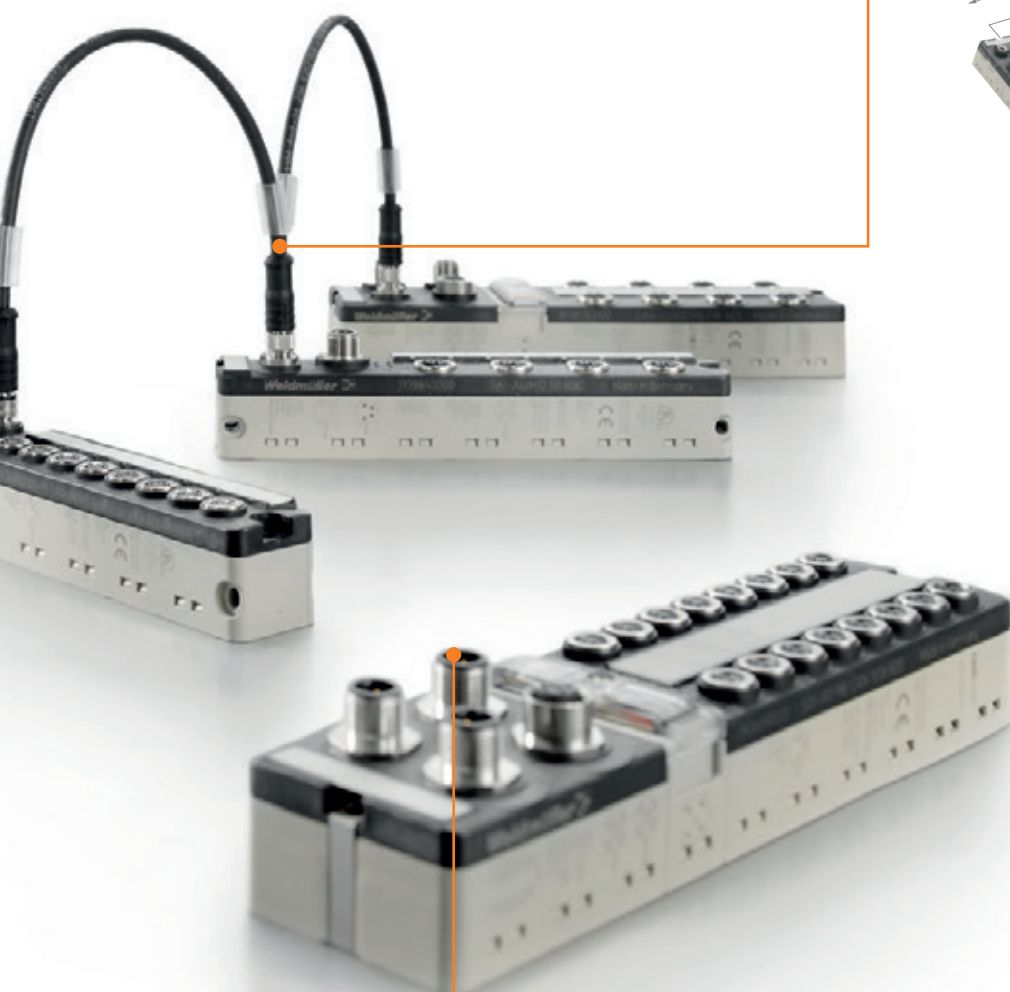
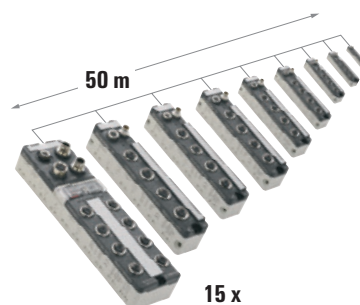


Universal adaptation

The analogue inputs and outputs are freely configurable in the different analogue value ranges.

**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**

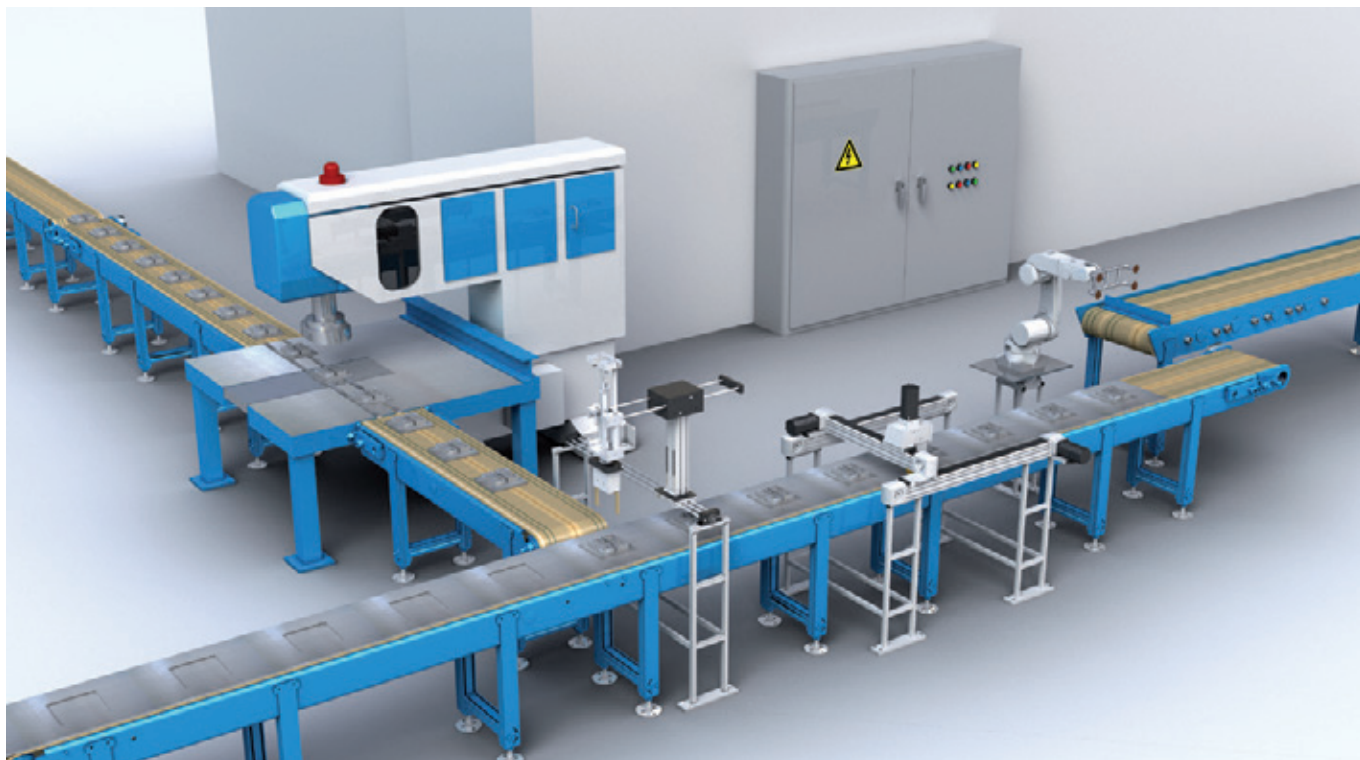
Support for all common field bus systems such as DeviceNet™, CANopen, RS232.



Challenging production tasks present you with motion and distribution

We present SAI for a secure processing of your sensor and actuator signals

Let's connect.

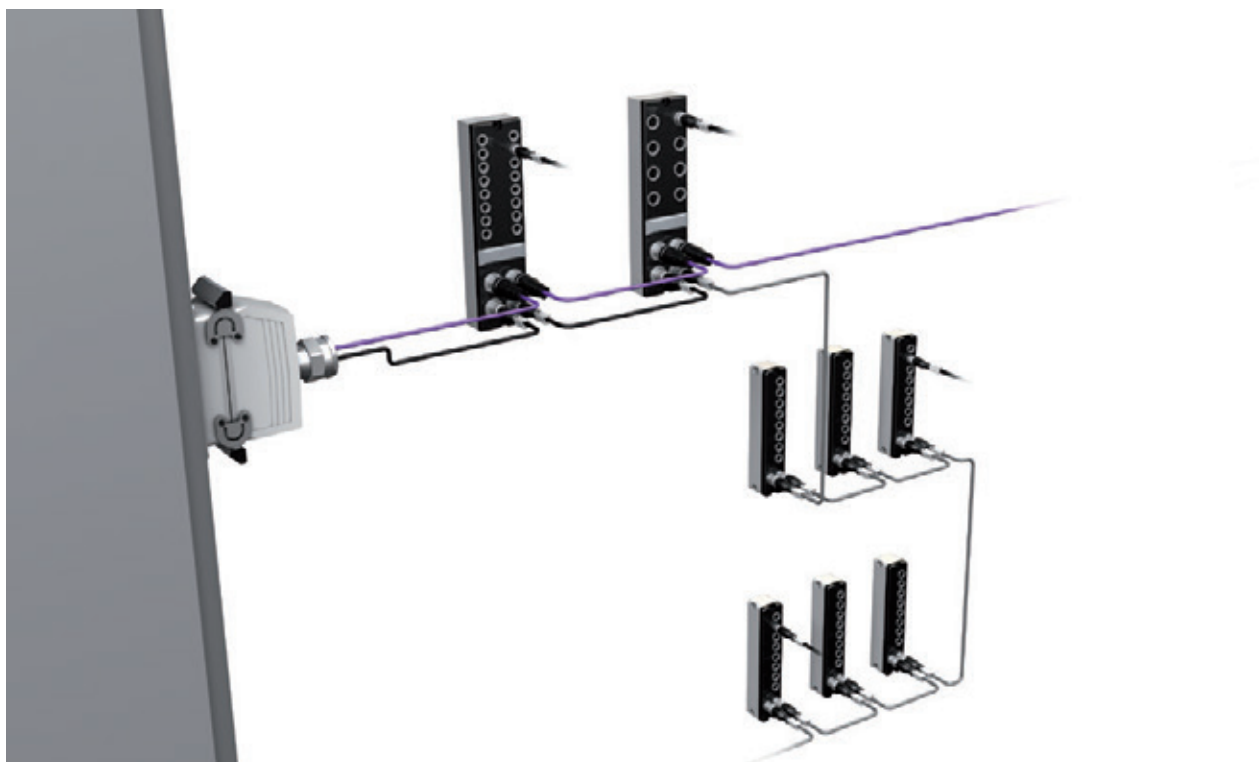


Complex production processes mean that you have to co-ordinate lots of individual processing stages. Numerous sensors and actuators throughout the production facility are connected with the central control system. And in many cases, you have to bridge huge distances and process a large number of different signals.

Weidmüller's SAI Active product range equips you for this production process chain in a practical way. Thanks to IP 67-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 SAI family include a direct interface to your PLC programming environment and precise error analyses with visual status display. Let's connect.



Remote I/O IP 67 SAI Active

- Efficient engineering by direct integration into standard PLC system engineering
- Rapid identification of failure causes by providing enhanced diagnostic data
- 50 % cost reduction by flexible sub-bus concept
- Analogue inputs and outputs have freely configurable analog value

Sensor Actuator Cabling

- Broad range of leadership qualities
- Free attachable connectors with screw connection up to crimp versions
- Customised versions and lengths from 1 piece
- 360 degree shielding
- Many types from stock

Selection table

Order No.	Product designation	Connection system						
		M8	M12	CANopen	DeviceNet™	Modbus ASCII (RS 232 / USB)	Subbus	
SAI Active 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 Active 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	

	Inputs					Outputs				Supply voltage feed circuits	Special characteristics	Page
	Digital	Analogue	Counter	TC	RTD	Digital	Output current	Analogue	Output range			
	16									2		B.14
	max. 16, min. 8 (can be configured)					max. 8, min. 0 (can be configured)	0.5 A			4	- Max. I/O channels = 16	B.14
	16									2		B.14
	max. 16, min. 8 (can be configured)					max. 8, min. 0 (can be configured)	0.5 A			4	- Max. I/O channels = 16	B.14
	4	4						2	-10...+10 V, 0...+10 V, 0...20 mA, 4...20 mA	2		B.15
	16									2		B.18
	max. 16, min. 8 (can be configured)					max. 8, min. 0 (can be configured)	0.5 A			4	- Max. I/O channels = 16	B.18
	16									2		B.18
	max. 16, min. 8 (can be configured)					max. 8, min. 0 (can be configured)	0.5 A			4	- Max. I/O channels = 16	B.18
	4	4						2	-10...+10 V, 0...+10 V, 0...20 mA, 4...20 mA	2		B.19
	16									2		B.26
	8											B.30
						8	2 A			2	- Max. total current, output = 8 A	B.30
	max. 8, min. 0 (can be configured)					max. 8, min. 0 (can be configured)	0.5 A			2	- Max. I/O channels = 8 - Max. total current, output = 4 A	B.30
	8											B.30
						8	2 A			2	- Max. I/O channels = 8 - Max. total current, output = 4 A	B.30
	max. 8, min. 0 (can be configured)					max. 8, min. 0 (can be configured)	0.5 A			2	- Max. I/O channels = 8	B.30
		4										B.31
								4	-10...+10 V, 0...+10 V, 0...20 mA, 4...20 mA			B.31
			2							2		B.32
				4								B.33
					4							B.34

SAI Active Universal

Compact, basic versions of the Remote I/O system with IP 67 protection

B 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.



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.



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	

Technical data

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 current, low
Input current, 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
Earth
Protection degree
Operating temperature
Storage temperature
Housing main material / UL 94 flammability rating
Certificate

SAI-AU



Type	Qty.	Order No.
SAI-AU M8 CAN 16DI	1	1906680000
SAI-AU M12 CAN 16DI	1	1906650000
Note		

Connections
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
16 x M8 socket 3-pole / 8 x M12 socket 5-pole, A-coded
Voltage supply
24 V (18 V DC ... 30 V DC)
Per PIN max. 4 A
8 A
Digital inputs
-30 V to +30 V (protected against polarity reversal)
< 15 mA in accordance with EN 61131-2 Type 1
2 mA to 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
3 ms
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
CANopen
Max. 1 Mbit/s (automatic detection)
Via rotary coding switch (1 – 127)
EDS file (Device-specific for each module)
General data
210 mm / 54 mm / 32 mm
< 400 g
IP 67
0 °C...+60 °C
-25 °C...+85 °C
Pocan, PBT / V-0
CE, cULus

SAI-AU



Type	Qty.	Order No.
SAI-AU M8 CAN 16DI/8DO	1	1906690000
SAI-AU M12 CAN 16DI/8DO	1	1906660000
Note		

Connections
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
Voltage supply
24 V (18 V DC ... 30 V DC)
Per PIN max. 4 A
8 A
Digital inputs
-30 V to +30 V (protected against polarity reversal)
< 15 mA in accordance with EN 61131-2 Type 1
2 mA to 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
3 ms
Digital outputs
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
Fieldbus
CANopen
Max. 1 Mbit/s (automatic detection)
Via rotary coding switch (1 – 127)
EDS file (Device-specific for each module)
General data
210 mm / 54 mm / 32 mm
< 400 g
IP 67
0 °C...+60 °C
-25 °C...+85 °C
Pocan, PBT / V-0
CE, cULus

Note

CANopen
Remote I/O for digital and
analogue signal processing



SAI-AU



Ordering data

Module variants
4 Analogue In / 2 Analogue Out / 4 Digital In
Note

Type	Qty.	Order No.
SAI-AU M12 CAN AI/AO/DI	1	1906670000

Technical data

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 current, low
Input current, 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
Earth
Protection degree
Operating temperature
Storage temperature
Housing main material / UL 94 flammability rating
Certificate

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)
< 15 mA in accordance with EN 61131-2 Type 1
2 mA to 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
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
IP 67
0 °C...+60 °C
-25 °C...+85 °C
Pocan, PBT / V-0
CE, cULus

Note

Note

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.

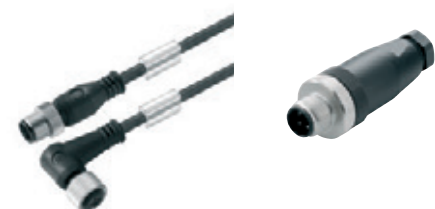
CANopen modules



CANopen accessories



Sensor/actuator accessories



Markers



Protective caps



Ordering data

Description	Type	Qty.	Order No.
CANopen modules			
16 Digital In	SAI-AU M12 CAN 16DI	1	1906650000
16 Digital In / 8 Digital Out	SAI AU M12 CAN 16DI/8DO	1	1906660000
4 Analogue In / 2 Analogue Out / 4 Digital In	SAI-AU M12 CAN AI/AO/DI	1	1906670000
16 Digital In	SAI-AU M8 CAN 16DI	1	1906680000
16 Digital In / 8 Digital Out	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	*)
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CANopen terminating resistor	SAIEND CAN-M12 5P A-COD	1	1784760000
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Sensor/actuator accessories

Sensor-actuator cables	*)
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Sensor-actuator plugs	*)
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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. 1366750000

DeviceNet™

Remote I/O for digital signal processing



SAI-AU



SAI-AU



Ordering data

Module variants	
16 Digital In; 16 Digital In / 8 Digital Out	
16 Digital In; 16 Digital In / 8 Digital Out	
Note	

Type	Qty.	Order No.
SAI-AU M8 DN 16DI	1	1906730000
SAI-AU M12 DN 16DI	1	1906700000
Note		

Type	Qty.	Order No.
SAI-AU M8 DN 16DI/8DO	1	1906740000
SAI-AU M12 DN 16DI/8DO	1	1906710000
Note		

Technical data

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 current, low
Input current, 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 outputs
Fieldbus
Bus system
Transmission rate
Addressing
System integration
General data
L x W x H
Earth
Protection degree
Operating temperature
Storage temperature
Housing main material / UL 94 flammability rating
Certificate

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
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)
< 15 mA in accordance with EN 61131-2 Type 1
2 mA to 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
3 ms
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
IP 67
0 °C...+60 °C
-25 °C...+85 °C
Pocan, PBT / V-0
CE, cULus

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)
< 15 mA in accordance with EN 61131-2 Type 1
2 mA to 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
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
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
IP 67
0 °C...+60 °C
-25 °C...+85 °C
Pocan, PBT / V-0
CE, cULus

Note

DeviceNet™

Remote I/O for digital and
analogue signal processing



SAI-AU



Ordering data

Module variants
4 Analogue In / 2 Analogue Out / 4 Digital In
Note

Type	Qty.	Order No.
SAI-AU M12 DN AI/AO/DI	1	1906720000

Technical data

Connections	
Fieldbus (BUS-IN)	1x M12 plug 5-pole, A-coded
Fieldbus (BUS-OUT)	1x M12 female 5-pole, A-coded
Supply voltage (AUX-IN)	1x M12 plug 5-pole, A-coded
Supply voltage (AUX-OUT)	1x M12 female 5-pole, A-coded
I/O connections	8 x M12 socket 5-pole, A-coded
Voltage supply	
Operating voltage	24 V (18 V DC ... 30 V DC)
Contact load	Per PIN max. 4 A
Max. total current module	8 A
Digital inputs	
Permitted input voltage	-30 V to +30 V (protected against polarity reversal)
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 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
Analogue inputs	
Measurement range	-10 V ... +10 V, 0 V ... 10 V, 0 ... 20 mA, 4...20 mA
Maximum input voltage in relation to GND	35 V
Input resistance (load)	<125 Ohm
Max. input current (differential)	-50 mA to +50 mA (protected against polarity reversal)
Short-circuit-proof	Yes
Resolution / Accuracy	12-bit / < 0.2 %
Analogue outputs	
Measurement range	-10 V ... +10 V, 0 V ... 10 V, 0 ... 20 mA, 4...20 mA
Output interval	5 ms to 250 ms (can be configured)
Short-circuit-proof	Yes
Resolution / Accuracy	12-bit / < 0.2 %
Fieldbus	
Bus system	DeviceNet™
Transmission rate	Max. 500 kBit/s (automatic detection)
Addressing	Via rotary coding switch (0 - 63)
System integration	EDS file (Device-specific for each module)
General data	
L x W x H	210 mm / 54 mm / 32 mm
Earth	< 400 g
Protection degree	IP 67
Operating temperature	0 °C...+60 °C
Storage temperature	-25 °C...+85 °C
Housing main material / UL 94 flammability rating	Pocan, PBT / V-0
Certificate	CE, cULus

Note

Engineering tables 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.

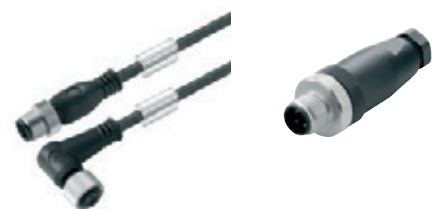
DeviceNet™ modules



DeviceNet™ accessories



Sensor/actuator accessories



Markers



Protective caps



Ordering data

Description	Type	Qty.	Order No.
DeviceNet™ modules			
16 Digital In	SAI-AU M12 DN 16DI	1	1906700000
16 Digital In / 8 Digital Out	SAI-AU M12 DN 16DI/8DO	1	1906710000
4 Analogue In / 2 Analogue Out / 4 Digital In	SAI-AU M12 DN AI/AO/DI	1	1906720000
16 Digital In	SAI-AU M8 DN 16DI	1	1906730000
16 Digital In / 8 Digital Out	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	*)
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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. 1366750000

SAI Active Universal Pro

Professional versions of the Remote I/O System featuring IP 67 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.





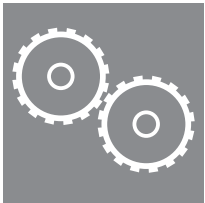
Cost-effective Subbus system

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



SAI-AU GW



Ordering data

Module variants	16 Digital In
Note	

Type	Qty.	Order No.
SAI-AU M12 DN GW 16DI	1	1938570000

Technical data

Connections	
Fieldbus (BUS-IN)	1x M12 plug 5-pole, A-coded
Fieldbus (BUS-OUT)	1x M12 female 5-pole, A-coded
Supply voltage (AUX-IN)	1x M12 plug 5-pole, A-coded
Connection to Subbus (SUB-OUT)	1 x M8 female 4-pole, A-coded
I/O connections	8 x M12 socket 5-pole, A-coded
Voltage supply	
Operating voltage	24 V (18 V DC ... 30 V DC)
Contact load	Per PIN max. 4 A
Max. total current module	8 A
Digital inputs	
Permitted input voltage	-30 V to +30 V (protected against polarity reversal)
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 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
Fieldbus	
Bus system	DeviceNet™
Transmission rate	Max. 500 kBit/s (automatic detection)
Addressing	Via rotary coding switch (0 - 63)
System integration	EDS file
General data	
L x W x H	210 mm / 54 mm / 32 mm
Earth	< 350 g
Protection degree	IP 67
Operating temperature	0 °C...+60 °C
Storage temperature	-25 °C...+85 °C
Housing main material / UL 94 flammability rating	Pocan, PBT / V-0
Certificate	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



Ordering data

Description	Type	Qty.	Order No.
DeviceNet™ modules			
DeviceNet™ Gateway	SAI-AU M12 DN GW 16DI	1	1938570000
Subbus module	SAI-AU M12 SB 8DI	1	1938610000
Subbus module	SAI-AU M12 SB 8DI/8DO	1	1938640000
Subbus module	SAI-AU M8 SB 8DI	1	1938600000
Subbus module	SAI-AU M8 SB 8DI/8DO	1	1938630000
Subbus module	SAI-AU M12 SB AI	1	1938690000
Subbus module	SAI-AU M12 SB AO	1	1938700000
Subbus module	SAI-AU M12 SB PT100	1	1938710000
Subbus module	SAI-AU M12 SB Thermo	1	1938720000
Subbus module	SAI-AU M12 SB Zähler	1	1938730000
Subbus module	SAI-AU M8 SB 8DO 2A	1	1938660000
Subbus module	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	*)
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DeviceNet™ terminating resistor	SAIEND CAN-M12 5P A-COD	1	1784760000
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Subbus cables / terminating resistor

Subbus cables	*)
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Subbus terminating resistor	SAIEND CAN M8 4P	1	1955340000
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Sensor/actuator accessories

Sensor-actuator cables	*)
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Sensor-actuator plugs	*)
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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. 1366750000

B

Module variants	
	8 Digital In; 8 Digital In / 8 Digital Out
	8 Digital In; 8 Digital In / 8 Digital Out
	8 Digital Out 2A
	8 Digital Out 2A
Note	

Connections
Supply voltage (AUX-IN)
Connection to Subbus (SUB-IN)
Connection to Subbus (SUB-OUT)
I/O connections
Voltage supply
Operating voltage
Contact load
Max. total current module
Digital inputs
Permitted input voltage
Input current, low
Input current, high
Input current, low
Input current, high
Input filter
Separation of potentials to module electronics
Digital outputs
max. current-carrying capacity per output signal
Separation of potentials to module electronics
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
Addressing
System integration
General data
L x W x H
Earth
Protection degree
Operating temperature
Storage temperature
Housing main material / UL 94 flammability rating
Certificate

UL LISTED
IND. CONT. EQ.
1VDS

Type	Qty.	Order No.
SAI-AU M8 SB 8DI	1	1938600000
SAI-AU M12 SB 8DI	1	1938610000

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)
-30 V to +30 V (protected against polarity reversal)
< 15 mA in accordance with EN 61131-2 Type 1
2 mA to 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
1 ms, 3 ms, 5 ms, 10 ms, Configurable
none
Subbus
automatic
automatic
155 mm / 30 mm / 32 mm
< 200 g
IP 67
0 °C...+60 °C
-25 °C...+85 °C
Pocan, PBT / 5VA
CE, cULus

Type	Qty.	Order No.
SAI-AU M8 SB 8DIO	1	1938630000
SAI-AU M12 SB 8DIO	1	1938640000
SAI-AU M8 SB 8DO 2A	1	1938660000
SAI-AU M12 SB 8DO 2A	1	1938680000

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
24 V (18 V DC ... 30 V DC)
Per PIN max. 4 A
8 A
-30 V to +30 V (protected against polarity reversal)
< 15 mA in accordance with EN 61131-2 Type 1
2 mA to 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
1 ms, 3 ms, 5 ms, 10 ms, Configurable
none
2 A
none
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
4 A
Subbus
automatic
automatic
180 mm / 30 mm / 32 mm
< 200 g
IP 67
0 °C...+60 °C
-25 °C...+85 °C
Pocan, PBT / 5VA
CE, cULus

Note

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Subbus modules with analogue inputs/outputs

SAI-AU Analog



SAI-AU Analog



Ordering data

Module variants
4 Analogue Out / 4 Analogue In
Note

Type	Qty.	Order No.
SAI-AU M12 SB 4A0	1	1938700000

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

Technical data

Connections
Connection to Subbus (SUB-IN)
Connection to Subbus (SUB-OUT)
I/O connections
Voltage supply
Operating voltage
Analogue inputs
Measurement range
Maximum input voltage in relation to GND
Input resistance (load)
Max. input current (differential)
Short-circuit-proof
Resolution / Accuracy
Analogue outputs
Measurement range
Output interval
Short-circuit-proof
Resolution / Accuracy
Fieldbus
Bus system
Addressing
System integration
General data
L x W x H
Earth
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)
-10 V ... +10 V, 0 V ... 10 V, 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
IP 67
0 °C...+60 °C
-25 °C...+85 °C
Pocan, PBT / 5VA
CE, cULus

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 ... 10 V, 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
IP 67
0 °C...+60 °C
-25 °C...+85 °C
Pocan, PBT / 5VA
CE, cULus

Note

Note

Note

Subbus modules with functional inputs

SAI-AU Counter



Ordering data

Module variants
2 counter inputs / 2 gate outputs
Note

Type	Qty.	Order No.
SAI-AU M12 SB 2Counter	1	1938730000

Technical data

Connections
Supply voltage (AUX-IN)
Connection to Subbus (SUB-IN)
Connection to Subbus (SUB-OUT)
I/O connections
Voltage supply
Operating voltage
Contact load
Max. total current module
Functional inputs
Counting breadth
Switching frequency
Number of inputs
Fieldbus
Bus system
Addressing
System integration
General data
L x W x H
Earth
Protection degree
Operating temperature
Storage temperature
Housing main material / UL 94 flammability rating
Certificate

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
24 V (18 V DC ... 30 V DC)
Per PIN max. 4 A
8 A
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
IP 67
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

Technical data

Connections	
Connection to Subbus (SUB-IN)	1 x M8 plug 4-pole, A-coded
Connection to Subbus (SUB-OUT)	1 x M8 female 4-pole, A-coded
I/O connections	4 x M12 female, 5-pole A-coded
Voltage supply	
Operating voltage	24 V (18 V DC ... 30 V DC)
Functional inputs	
Sensor	Types J, K, L, B, E, N, R, S, T, U: mV readings
Temperature range	Typical for sensor, Preset Type K, -100 °C to 1,370 °C
Resolution	0.1 °C per digit
Conversion time	250 ms (can be configured to 70 ms)
Measurement error	< ± 0.5 % (of measuring range limit)
Input filter	Configurable
cold junction compensation	External PT1000 connection on pins 1 and 3 (GND)
Fieldbus	
Bus system	Subbus
Addressing	automatic
System integration	automatic
General data	
L x W x H	155 mm / 30 mm 32 mm
Earth	< 200 g
Protection degree	IP 67
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 functional inputs

SAI-AU PT100



Ordering data

Module variants	4 PT100 inputs
Note	

Type	Qty.	Order No.
SAI-AU M12 SB 4PT100	1	1938710000

Technical data

Connections	
Connection to Subbus (SUB-IN)	1 x M8 plug 4-pole, A-coded
Connection to Subbus (SUB-OUT)	1 x M8 female 4-pole, A-coded
I/O connections	4 x M12 female, 5-pole A-coded
Voltage supply	
Operating voltage	24 V (18 V DC ... 30 V DC)
Functional inputs	
Sensor	N100, N1000, N120, PT100, PT1000, PT200, PT300, PT500, Potentiometer connection, Resistance measurement
Resolution	0.1 °C per digit
Conversion time	250 ms (can be configured to 65 ms)
Measurement error	< ± 1 °C
Input filter	Configurable
Measurement range for PT sensors	-200 °C ... + 850 °C
Measurement range for Ni sensors	-60 °C ... +250 °C
Resistance measurement	max. 4000 Ohm
Potentiometer	100 to 4000 Ω (three-wire connection)
Measurement current	Typically 0.5 mA
Fieldbus	
Bus system	Subbus
Addressing	automatic
System integration	automatic
General data	
L x W x H	155 mm / 30 mm / 32 mm
Earth	< 200 g
Protection degree	IP 67
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

Sensor Cables u-remote

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.

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.

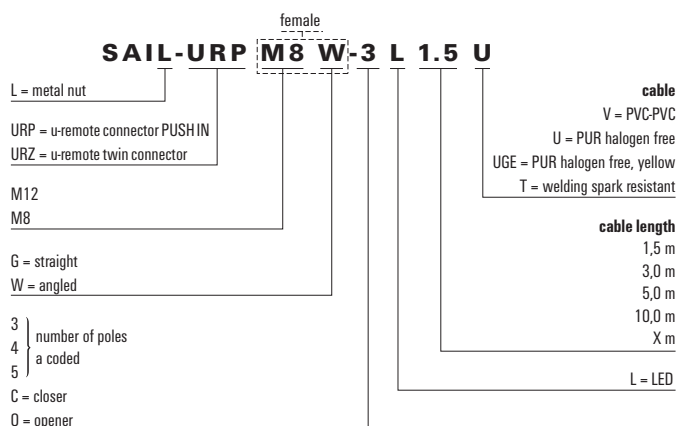
Standard cable lengths

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

Description code example



Connecting cables

u-remote plug / M12
u-remote plug / M8



IP 67

Technical data

Rated current
Rated voltage (in accordance with VDE standard 0110 ISO group C)
Temperature range of housing
Core cross-section
Type of protection
Contact surface
Sheath material
Wire core insulation

Halogen-free PUR

4 A
M12: 250 V / M8: 60 V (3-pole) / LED: 24 V
-25 to +85 °C
M12: 0.34 mm ² /M8: 0.25 mm ²
IP 67/68 (M12/M8 head)
Gold-plated
PUR
TPM

PVC

4 A
M12: 250 V / M8: 60 V (3-pole) / LED: 24 V
-25 to +85 °C
M12: 0.34 mm ² /M8: 0.25 mm ²
IP 67/68 (M12/M8 head)
Gold-plated
PVC
PVC

Order 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-pin / u-remote plug - M12 straight socket
4-pin / u-remote plug - M12 angled socket
3-pin / u-remote plug - M8 straight socket
3-pin / u-remote plug - M8 angled socket

4-pin / u-remote plug - M12 angled socket - LED
3-pin / 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-pin / u-remote plug - M8 straight socket
Twin / 3-pin / u-remote plug - M8 angled socket

Type	Qty.	Order No.
SAIL-URPM12G-C-1.5U	1	1475070150
SAIL-URPM12W-C-1.5U	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	1475160150
SAIL-URPM8W-3-1.5U	1	1475170150
SAIL-URPM12W-2L-1.5U	1	1475450150
SAIL-URPM8W-2L-1.5U	1	1475470150
SAIL-URZM12G-C-1.5U	1	1475030150
SAIL-URZM12W-C-1.5U	1	1475040150
SAIL-URZM8G-3-1.5U	1	1475050150
SAIL-URZM8W-3-1.5U	1	1475060150

Type	Qty.	Order No.
SAIL-URPM12G-C-1.5V	1	1475280150
SAIL-URPM12W-C-1.5V	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-3-1.5V	1	1475340150
SAIL-URPM8W-3-1.5V	1	1475350150
SAIL-URPM12W-2L-1.5V	1	1475500150
SAIL-URPM8W-2L-1.5V	1	1475510150

Accessories

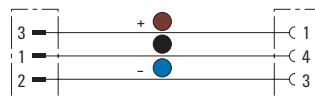
M8/M12 cable gland tool torque

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

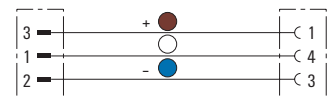
Type	Qty.	Order No.
Screwty®-Set-DM	1	1920000000

Wiring diagram

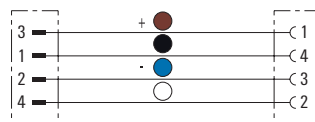
3-pin / NO contact



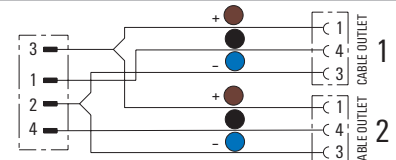
NC contact



4-pin



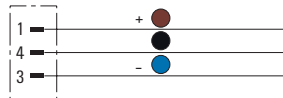
Twin / NO contact



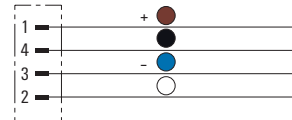
Accessories for sensor cables

M12 cables with connector at one end only

3-pin



4-pin



Technical data

Rated current
Rated voltage (in accordance with VDE standard 0110 ISO group C)
Temperature range of housing
Core cross-section
Type of protection
Contact surface
Sheath material
Wire core insulation

4 A
250 V
-25 to +85 °C
0.34 mm ²
IP 67/68
Gold-plated
PUR
PUR

4 A
250 V
-25 to +85 °C
0.34 mm ²
IP 67/68
Gold-plated
PVC
PVC

Order data

Module variants
PVC M12 straight socket
Halogen-free PUR M12 straight socket
Yellow halogen-free PUR M12 straight socket
Halogen-free PUR M12 straight socket, resistant to welding beads
PVC M12 angled socket
Halogen-free PUR M12 angled socket
Yellow halogen-free PUR M12 angled socket
Halogen-free PUR M12 angled socket, resistant to welding beads

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
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-M12BG-4-1.5V	1	1925580150
SAIL-M12BG-4-1.5U	1	9457730150
SAIL-M12BG-4-1.5UGE	1	1092920150
SAIL-M12BG-4-1.5T	1	1968580150
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

Accessories

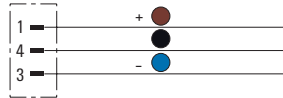
Type
M8/M12 cable gland tool torque

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

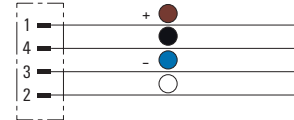
Type	Qty.	Order No.
Screwty®-Set-DM	1	1920000000

M8 cables with connector at one end only

3-pin



4-pin



Technical data

Rated current
Rated voltage (in accordance with VDE standard 0110 ISO group C)
Temperature range of housing
Core cross-section
Type of protection
Contact surface
Sheath material
Wire core insulation

4 A
60 V
-25 to +85 °C
0.25 mm ²
IP 67/68
Gold-plated
PUR
PUR

4 A
30 V
-25 to +85 °C
0.25 mm ²
IP 67/68
Gold-plated
PVC
PVC

Ordering data

Module variants

PVC M8 straight socket
Halogen-free PUR M8 straight socket
Yellow halogen-free PUR M8 straight socket

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
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

PVC M8 angled socket
Halogen-free PUR M8 angled socket
Yellow halogen-free PUR M8 angled socket

Accessories

M8/M12 cable gland tool torque

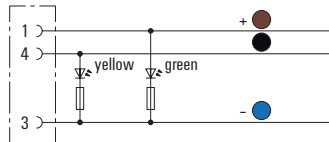
Type	Qty.	Order No.
Screwty®-Set-DM	1	1920000000

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

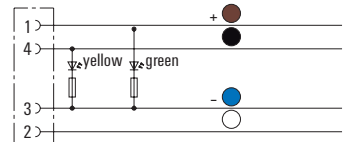
Accessories for sensor cables

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

3-pin / 2 LEDs



4-pin / 2 LEDs



Technical data

Rated current
Rated voltage (in accordance with VDE standard 0110 ISO group C)
Temperature range of housing
Core cross-section
Type of protection
Contact surface
Sheath material
Wire core insulation

4 A
24 V
-25 to +85 °C
M12: 0.34 mm ² /M8: 0.25 mm ²
IP 67/68
Gold-plated
PUR
PUR

4 A
24 V
-25 to +85 °C
M12: 0.34 mm ² /M8: 0.25 mm ²
IP 67/68
Gold-plated
PUR
PUR

Order data

Module variants
PVC M12 angled socket
Halogen-free PUR M12 angled socket
Yellow halogen-free PUR M12 angled socket
Halogen-free PUR M12 angled socket, resistant to welding beads
PVC M8 angled socket
Halogen-free PUR M8 angled socket
Yellow halogen-free PUR M8 angled socket

Type	Qty.	Order No.
SAIL-M12BW-3L1.5V		1925460150
SAIL-M12BW-3L1.5U		9457800150
SAIL-M12BW-3L1.5UGE		1114880150
SAIL-M12BW-3L1.5T		1004330150
SAIL-M8BW-3L1.5V		1927350150
SAIL-M8BW-3L1.5U		9457460150
SAIL-M8BW-3L1.5UGE		1093210150

Type	Qty.	Order No.
SAIL-M12BW-4-2L1.5V		1925470150
SAIL-M12BW-4-2L1.5U		9456380150
SAIL-M12BW-4-2L1.5UGE		1092950150
SAIL-M12BW-4-2L1.5T		1007000150
SAIL-M8BW-4L1.5V		1927360150
SAIL-M8BW-4L1.5U		1906400150
SAIL-M8BW-4L1.5UGE		1093230150

Accessories

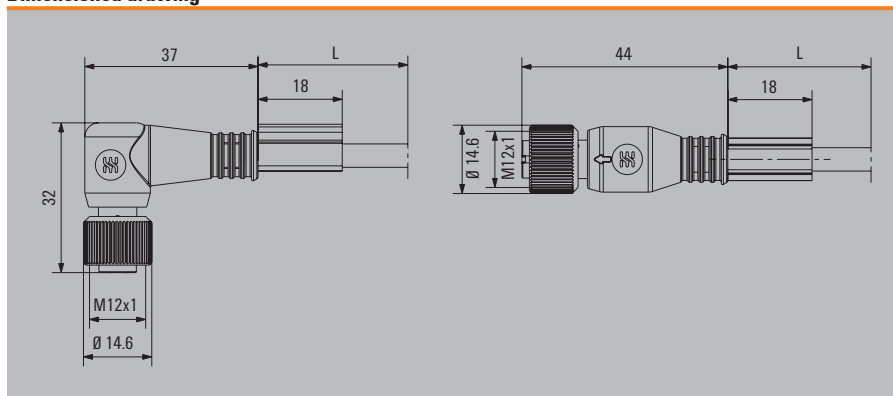
Type
M8/M12 cable gland tool torque

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

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

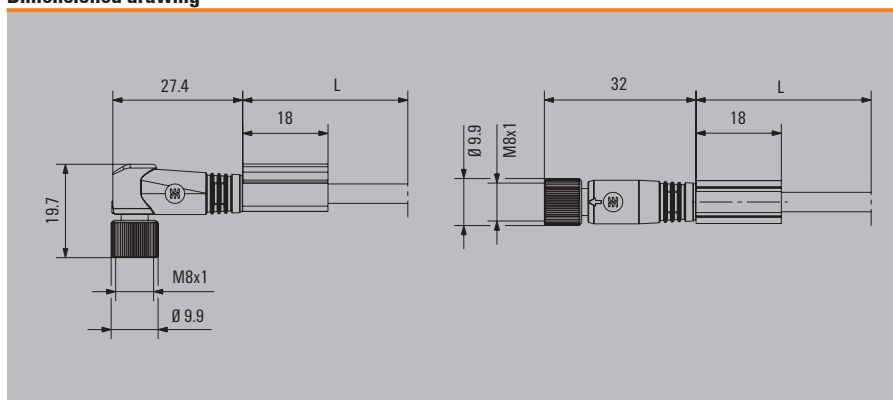
M12 straight/angled socket

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



Index

Index	Index Type	X.2
	Index Order No.	X.4
	Addresses worldwide	X.6

Type	Order No.	Page
------	-----------	------

E

ESG 8/13.5/43.3 SAI AU	1912130000	B.12
ESG 8/13.5/43.3 SAI AU	1912130000	B.16
ESG 8/13.5/43.3 SAI AU	1912130000	B.21

S

SAI-AU M12 CAN 16DI	1906650000	B.6
SAI-AU M12 CAN 16DI	1906650000	B.10
SAI-AU M12 CAN 16DI	1906650000	B.12
SAI-AU M12 CAN 16DI/8DO	1906660000	B.6
SAI-AU M12 CAN 16DI/8DO	1906660000	B.10
SAI-AU M12 CAN 16DI/8DO	1906660000	B.12
SAI-AU M12 CAN AI/AO/DI	1906670000	B.6
SAI-AU M12 CAN AI/AO/DI	1906670000	B.11
SAI-AU M12 CAN AI/AO/DI	1906670000	B.12
SAI-AU M12 DN 16DI	1906700000	B.6
SAI-AU M12 DN 16DI	1906700000	B.14
SAI-AU M12 DN 16DI	1906700000	B.16
SAI-AU M12 DN 16DI/8DO	1906710000	B.6
SAI-AU M12 DN 16DI/8DO	1906710000	B.14
SAI-AU M12 DN 16DI/8DO	1906710000	B.16
SAI-AU M12 DN AI/AO/DI	1906720000	B.6
SAI-AU M12 DN AI/AO/DI	1906720000	B.10
SAI-AU M12 DN AI/AO/DI	1906720000	B.15
SAI-AU M12 DN AI/AO/DI	1906720000	B.16
SAI-AU M12 DN GW 16DI	1938570000	B.6
SAI-AU M12 DN GW 16DI	1938570000	B.20
SAI-AU M12 DN GW 16DI	1938570000	B.21
SAI-AU M12 SB 2Counter	1938730000	B.6
SAI-AU M12 SB 2Counter	1938730000	B.21
SAI-AU M12 SB 2Counter	1938730000	B.24
SAI-AU M12 SB 4AI	1938690000	B.6
SAI-AU M12 SB 4AI	1938690000	B.21
SAI-AU M12 SB 4AI	1938690000	B.23
SAI-AU M12 SB 4AO	1938700000	B.6
SAI-AU M12 SB 4AO	1938700000	B.21
SAI-AU M12 SB 4AO	1938700000	B.23
SAI-AU M12 SB 4PT100	1938710000	B.6
SAI-AU M12 SB 4PT100	1938710000	B.21
SAI-AU M12 SB 4PT100	1938710000	B.26
SAI-AU M12 SB 4Thermo	1938720000	B.6
SAI-AU M12 SB 4Thermo	1938720000	B.21
SAI-AU M12 SB 4Thermo	1938720000	B.25
SAI-AU M12 SB 8DI	1938610000	B.6
SAI-AU M12 SB 8DI	1938610000	B.21
SAI-AU M12 SB 8DI	1938610000	B.22
SAI-AU M12 SB 8DI0	1938640000	B.6
SAI-AU M12 SB 8DI0	1938640000	B.21
SAI-AU M12 SB 8DI0	1938640000	B.22
SAI-AU M12 SB 8DO 2A	1938680000	B.6
SAI-AU M12 SB 8DO 2A	1938680000	B.21
SAI-AU M12 SB 8DO 2A	1938680000	B.22
SAI-AU M8 CAN 16DI	1906680000	B.6
SAI-AU M8 CAN 16DI	1906680000	B.10
SAI-AU M8 CAN 16DI	1906680000	B.12
SAI-AU M8 CAN 16DI/8DO	1906690000	B.6
SAI-AU M8 CAN 16DI/8DO	1906690000	B.10
SAI-AU M8 CAN 16DI/8DO	1906690000	B.12
SAI-AU M8 DN 16DI	1906730000	B.6
SAI-AU M8 DN 16DI	1906730000	B.14
SAI-AU M8 DN 16DI	1906730000	B.16
SAI-AU M8 DN 16DI/8DO	1906740000	B.6
SAI-AU M8 DN 16DI/8DO	1906740000	B.14
SAI-AU M8 DN 16DI/8DO	1906740000	B.16
SAI-AU M8 SB 8DI	1938600000	B.6
SAI-AU M8 SB 8DI	1938600000	B.21
SAI-AU M8 SB 8DI	1938600000	B.22
SAI-AU M8 SB 8DI0	1938630000	B.6
SAI-AU M8 SB 8DI0	1938630000	B.21
SAI-AU M8 SB 8DI0	1938630000	B.22
SAI-AU M8 SB 8DO 2A	1938660000	B.6
SAI-AU M8 SB 8DO 2A	1938660000	B.21
SAI-AU M8 SB 8DO 2A	1938660000	B.22
SAI-SK M8	1802760000	B.12
SAI-SK M8	1802760000	B.16
SAI-SK M8	1802760000	B.21
SAI-SK Stecker M12	1781520000	B.12
SAI-SK Stecker M12	1781520000	B.16
SAI-SK Stecker M12	1781520000	B.21
SAI-SK M12	9456050000	B.6
SAI-SK M12	9456050000	B.16
SAI-SK M12	9456050000	B.21
SAI-SK M12 UNI	2330260000	B.12
SAI-SK M12-UNI	2330260000	B.16
SAI-SK M12-UNI	2330260000	B.21
SAI-ND CAN M8 4P	1955340000	B.12
SAI-ND CAN-M12 5P A-COD	1784760000	B.21
SAI-ND CAN-M12 5P A-COD	1784760000	B.16
SAI-ND CAN-M12 5P A-COD	1784760000	B.21
SAIL-M12BG-3-1.5T	1968590150	B.30
SAIL-M12BG-3-1.5U	9457820150	B.30
SAIL-M12BG-3-1.5UGE	1092910150	B.30
SAIL-M12BG-3-1.5V	1925570150	B.30
SAIL-M12BG-4-1.5T	1968580150	B.30
SAIL-M12BG-4-1.5U	9457730150	B.30
SAIL-M12BG-4-1.5UGE	1092920150	B.30
SAIL-M12BG-4-1.5V	1925580150	B.30
SAIL-M12BW-3-1.5T	1968560150	B.30

Type	Order No.	Page
SAIL-M12BW-3-1.5U	9457320150	B.30
SAIL-M12BW-3-1.5UGE	1092940150	B.30
SAIL-M12BW-3-1.5V	1925630150	B.30
SAIL-M12BW-3L1.5T	1004330150	B.32
SAIL-M12BW-3L1.5U	9457800150	B.32
SAIL-M12BW-3L1.5UGE	1114880150	B.32
SAIL-M12BW-3L1.5V	1925460150	B.32
SAIL-M12BW-4-1.5T	1968570150	B.30
SAIL-M12BW-4-1.5U	9457740150	B.30
SAIL-M12BW-4-1.5UGE	1092960150	B.30
SAIL-M12BW-4-1.5V	1925640150	B.30
SAIL-M12BW-4-2L1.5T	1007000150	B.32
SAIL-M12BW-4-2L1.5U	9456380150	B.32
SAIL-M12BW-4-2L1.5UGE	1092950150	B.32
SAIL-M12BW-4-2L1.5V	1925470150	B.32
SAIL-M8BG-3-1.5U	9457450150	B.31
SAIL-M8BG-3-1.5UGE	1093190150	B.31
SAIL-M8BG-3-1.5V	1927240150	B.31
SAIL-M8BG-4-1.5U	9457850150	B.31
SAIL-M8BG-4-1.5UGE	1093200150	B.31
SAIL-M8BG-4-1.5V	1927260150	B.31
SAIL-M8BW-3-1.5U	9457380150	B.31
SAIL-M8BW-3-1.5UGE	1093220150	B.31
SAIL-M8BW-3-1.5V	1927320150	B.31
SAIL-M8BW-3L1.5U	9457460150	B.32
SAIL-M8BW-3L1.5UGE	1093210150	B.32
SAIL-M8BW-3L1.5V	1927350150	B.32
SAIL-M8BW-4-1.5U	9456150150	B.31
SAIL-M8BW-4-1.5UGE	1093240150	B.31
SAIL-M8BW-4-1.5V	1927340150	B.31
SAIL-M8BW-4L1.5U	1906400150	B.32
SAIL-M8BW-4L1.5UGE	1093230150	B.32
SAIL-M8BW-4L1.5V	1927360150	B.32
SAIL-URPM12G-4-1.5U	1475130150	B.29
SAIL-URPM12G-4-1.5V	1475320150	B.29
SAIL-URPM12G-C-1.5U	1475070150	B.29
SAIL-URPM12G-C-1.5V	1475280150	B.29
SAIL-URPM12G-O-1.5U	1475090150	B.29
SAIL-URPM12G-O-1.5V	1475300150	B.29
SAIL-URPM12W-2L-1.5U	1475450150	B.29
SAIL-URPM12W-2L-1.5V	1475500150	B.29
SAIL-URPM12W-4-1.5U	1475140150	B.29
SAIL-URPM12W-4-1.5V	1475330150	B.29
SAIL-URPM12W-C-1.5U	1475080150	B.29
SAIL-URPM12W-C-1.5V	1475290150	B.29
SAIL-URPM12W-O-1.5U	1475120150	B.29
SAIL-URPM12W-O-1.5V	1475310150	B.29
SAIL-URPM8G-3-1.5U	1475160150	B.29
SAIL-URPM8G-C-1.5V	1475340150	B.29
SAIL-URPM8W-2L-1.5U	1475470150	B.29
SAIL-URPM8W-2L-1.5V	1475510150	B.29
SAIL-URPM8W-3-1.5U	1475170150	B.29
SAIL-URPM8W-C-1.5V	1475350150	B.29
Screwtry Set -DM	1920000000	B.30
Screwtry Set -DM	1920000000	B.30
Screwtry Set -DM	1920000000	B.31
Screwtry Set -DM	1920000000	B.32
Screwtry Set -DM	1920000000	B.33

U

UR20 PK FBC	1361520000	A.101
UR20-16AUX-FE	1334790000	A.99
UR20-16AUX-FE	1334790000	A.101
UR20-16AUX-GND-I	1334800000	A.99
UR20-16AUX-GND-I	1334800000	A.101
UR20-16AUX-GND-O	1334810000	A.99
UR20-16AUX-GND-O	1334810000	A.101
UR20-16AUX-I	1334770000	A.99
UR20-16AUX-I	1334770000	A.101
UR20-16AUX-O	1334780000	A.99
UR20-16AUX-O	1334780000	A.101
UR20-16DI-N	1315390000	A.34
UR20-16DI-N	1315390000	A.101
UR20-16DI-N-PLC-INT	1315400000	A.35
UR20-16DI-N-PLC-INT	1315400000	A.101
UR20-16DI-P	1315200000	A.28
UR20-16DI-P	1315200000	A.101
UR20-16DI-P-PLC-INT	1315210000	A.29
UR20-16DI-P-PLC-INT	1315210000	A.101
UR20-16DO-N	1315440000	A.49
UR20-16DO-N	1315440000	A.101
UR20-16DO-N-PLC-INT	1315450000	A.50
UR20-16DO-N-PLC-INT	1315450000	A.101
UR20-16DO-P	1315250000	A.44
UR20-16DO-P	1315250000	A.101
UR20-16DO-P-PLC-INT	1315270000	A.45
UR20-16DO-P-PLC-INT	1315270000	A.101
UR20-1CNT-100-100	1315570000	A.79
UR20-1CNT-100-100	1315570000	A.101
UR20-1CNT-500	1315580000	A.81
UR20-1CNT-500	1315580000	A.101
UR20-1COM-232-485-422	1315750000	A.84
UR20-1COM-232-485-422	1315750000	A.101
UR20-1COM-SAI-PRO	2007430000	A.85
UR20-1COM-SAI-PRO	2007430000	A.101
UR20-1SSI	1508090000	A.83
UR20-1SSI	1508090000	A.101
UR20-2CNT-100	1315590000	A.80

Type	Order No.	Page
UR20-2CNT-100	1315590000	A.101
UR20-2DI-P-TS	1460140000	A.30
UR20-2DI-P-TS	1460140000	A.101
UR20-2FCNT-100	1508080000	A.82
UR20-2FCNT-100	1508080000	A.101
UR20-2PWM-PN-0.5A	1315600000	A.55
UR20-2PWM-PN-0.5A	1315600000	A.101
UR20-2PWM-PN-2A	1315610000	A.56
UR20-2PWM-PN-2A	1315610000	A.101
UR20-4AI-RTD-DIAG	1315700000	A.70
UR20-4AI-RTD-DIAG	1315700000	A.101
UR20-4AI-TC-DIAG	1315710000	A.69
UR20-4AI-TC-DIAG	1315710000	A.101
UR20-4AI-UI-12	1394390000	A.63
UR20-4AI-UI-12	1394390000	A.101
UR20-4AI-UI-16	1315620000	A.59
UR20-4AI-UI-16	1315620000	A.101
UR20-4AI-UI-16-DIAG	1315690000	A.60
UR20-4AI-UI-16-DIAG	1315690000	A.101
UR20-4AI-UI-16-DIAG-HD	1506910000	A.62
UR20-4AI-UI-16-DIAG-HD	1506910000	A.101
UR20-4AI-UI-16-HD	1506920000	A.61
UR20-4AI-UI-16-HD	1506920000	A.101
UR20-4AO-UI-16	1315680000	A.73
UR20-4AO-UI-16	1315680000	A.101
UR20-4AO-UI-16-DIAG	1315730000	A.74
UR20-4AO-UI-16-DIAG	1315730000	A.101
UR20-4AO-UI-16-DIAG-HD	1506930000	A.76
UR20-4AO-UI-16-DIAG-HD	1506930000	A.101
UR20-4AO-UI-16-HD	1510690000	A.75
UR20-4AO-UI-16-HD	1510690000	A.101
UR20-4DI-2W-230V-AC	1550070000	A.36
UR20-4DI-2W-230V-AC	1550070000	A.101
UR20-4DI-4DO-PN-FSDE	1529780000	A.87
UR20-4DI-4DO-PN-FSDE	1529780000	A.101
UR20-4DI-4DO-PN-FSPS	1335060000	A.89
UR20-4DI-4DO-PN-FSPS	1335060000	A.101
UR20-4DI-N	1315350000	A.32
UR20-4DI-N	1315350000	A.101
UR20-4DI-P	1315170000	A.23
UR20-4DI-P	1315170000	A.101
UR20-4DI-P-3W	2009360000	A.24
UR20-4DI-P-3W	2009360000	A.101
UR20-4DI-P-TS	1460150000	A.31
UR20-4DI-P-TS	1460150000	A.101
UR20-4DO-N	1315410000	A.46
UR20-4DO-N	1315410000	A.101
UR20-4DO-N-2A	1315420000	A.47
UR20-4DO-N-2A	1315420000	A.101
UR20-4DO-P	1315220000	A.39
UR20-4DO-P	1315220000	A.101
UR20-4DO-P-2A	1315230000	A.40
UR20-4DO-P-2A	1315230000	A.101
UR20-4DO-PN-2A	1394420000	A.41
UR20-4DO-PN-2A	1394420000	A.101
UR20-4RO-CO-255	1315550000	A.52
UR20-4RO-CO-255	1315550000	A.101
UR20-4RO-SSR-255	1315540000	A.51
UR20-4RO-SSR-255	1315540000	A.101
UR20-8AI-16-DIAG-HD	1315720000	A.65
UR20-8AI-16-DIAG-HD	1315720000	A.101
UR20-8AI-16-HD	1315650000	A.64
UR20-8AI-16-HD	1315650000	A.101
UR20-8AI-PLC-INT	1315670000	A.66
UR20-8AI-PLC-INT	1315670000	A.101
UR20-8DI-N-3W	1315370000	A.33
UR20-8DI-N-3W	1315370000	A.101
UR20-8DI-P-2W	1315180000	A.25
UR20-8DI-P-2W	1315180000	A.101
UR20-8DI-P-3W	1394400000	A.26
UR20-8DI-P-3W	1394400000	A.101
UR20-8DI-P-3W-HD	1315190000	A.27
UR20-8DI-P-3W-HD	1315190000	A.101
UR20-8DI-PN-FSDE	1529800000	A.88
UR20-8DI-PN-FSDE	1529800000	A.101
UR20-8DI-PN-FSPS	1335070000	A.90
UR20-8DI-PN-FSPS	1335070000	A.101
UR20-8DO-N	1315430000	A.48
UR20-8DO-N	1315430000	A.101
UR20-8DO-P	1315240000	A.42
UR20-8DO-P	1315240000	A.101
UR20-8DO-P-2W-HD	1509830000	A.43
UR20-8DO-P-2W-HD	1509830000	A.101
UR20-8M-PFI-SP	1350940000	A.101
UR20-8M-PFI-SP	1350940000	A.101
UR20-8M-PFI-SP	1350970000	A.101
UR20-8M-PFI-SP	1350950000	A.101
UR20-8M-SP	1350930000	A.101
UR20-EM-1315170000-SP	1346640000	A.101
UR20-EM-1315180000-SP	1490220000	A.101
UR20-EM-1315190000-SP	1346670000	A.101
UR20-EM-1315200000-SP	1346680000	A.101
UR20-EM-1315210000-SP	1346690000	A.101
UR20-EM-1315220000-SP	1346700000	A.101
UR20-EM-1315230000-SP	1346710000	A.101
UR20-EM-1315240000-SP	1346720000	A.101
UR20-EM-1315250000-SP	1346730000	A.101
UR20-EM-1315270000-SP	1346740000	A.101
UR20-EM-1315350000-SP	1346870000	A.101
UR20-EM-1315370000-SP	1346880000	A.101

Type	Order No.	Page
UR20-PK-1315550000-SP	1346500000	A.101
UR20-PK-1315570000-SP	1346520000	A.101
UR20-PK-1315580000-SP	1346530000	A.101
UR20-PK-1315590000-SP	1346540000	A.101
UR20-PK-1315600000-SP	1484010000	A.101
UR20-PK-1315610000-SP	1346550000	A.101
UR20-PK-1315620000-SP	1484020000	A.101
UR20-PK-1315670000-SP	1483950000	A.101
UR20-PK-1315680000-SP	1484070000	A.101
UR20-PK-1315690000-SP	1518870000	A.101
UR20-PK-1315700000-SP	1484040000	A.101
UR20-PK-1315710000-SP	1484050000	A.101
UR20-PK-1315720000-SP	1559750000	A.101
UR20-PK-1315730000-SP	1518880000	A.101
UR20-PK-1315750000-SP	2425150000	A.101
UR20-PK-1315770000-SP	1346510000	A.101
UR20-PK-1334710000-SP	1346460000	A.101
UR20-PK-1334740000-SP	1346480000	A.101
UR20-PK-1334770000-SP	1346450000	A.101
UR20-PK-1334780000-SP	1484080000	A.101
UR20-PK-1334790000-SP	1346490000	A.101
UR20-PK-1334800000-SP	1346470000	A.101
UR20-PK-1334810000-SP	1484090000	A.101
UR20-PK-1334880000-SP	1484120000	A.101
UR20-PK-1334890000-SP	2003530000	A.101
UR20-PK-1334900000-SP	2003540000	A.101
UR20-PK-1334910000-SP	1484440000	A.101
UR20-PK-1334930000-SP	1484130000	A.101
UR20-PK-1335030000-SP	1346560000	A.101
UR20-PK-1335040000-SP	1484100000	A.101
UR20-PK-1335050000-SP	1346570000	A.101
UR20-PK-1335060000-SP	1992940000	A.101
UR20-PK-1335070000-SP	1992950000	A.101
UR20-PK-1394390000-SP	1484030000	A.101
UR20-PK-1394400000-SP	1411430000	A.101
UR20-PK-1394420000-SP	1483980000	A.101
UR20-PK-1460140000-SP	1484110000	A.101
UR20-PK-1460150000-SP	1484430000	A.101
UR20-PK-1506910000-SP	1518820000	A.101
UR20-PK-1506920000-SP	1518830000	A.101
UR20-PK-1506930000-SP	1531810000	A.101
UR20-PK-1508080000-SP	1518840000	A.101
UR20-PK-1508090000-SP	1559870000	A.101
UR20-PK-1509830000-SP	1559720000	A.101
UR20-PK-1510690000-SP	1531830000	A.101
UR20-PK-1529780000-SP	1992960000	A.101
UR20-PK-1529800000-SP	1992970000	A.101
UR20-PK-1550070000-SP	1559820000	A.101
UR20-PK-2007430000-SP	2425160000	A.101
UR20-PK-2009360000-SP	2011240000	A.101

Order No.	Type	Page
-----------	------	------

1000000000

1004330150	SAIL-M12BW-3L1.5T	B.32
1007000150	SAIL-M12BW-4.2L1.5T	B.32

1090000000

1092910150	SAIL-M12BG-3-1.5UGE	B.30
1092920150	SAIL-M12BG-4-1.5UGE	B.30
1092940150	SAIL-M12BW-3-1.5UGE	B.30
1092950150	SAIL-M12BW-4.2L1.5UGE	B.32
1092960150	SAIL-M12BW-4-1.5UGE	B.30
1093190150	SAIL-M8BG-3-1.5UGE	B.31
1093200150	SAIL-M8BG-4-1.5UGE	B.31
1093210150	SAIL-M8BW-3L1.5UGE	B.32
1093220150	SAIL-M8BW-3-1.5UGE	B.31
1093230150	SAIL-M8BW-4L1.5UGE	B.32
1093240150	SAIL-M8BW-4-1.5UGE	B.31

1110000000

1114880150	SAIL-M12BW-3L1.5UGE	B.32
------------	---------------------	------

1310000000

1315170000	UR20-4DI-P	A.23
1315170000	UR20-4DI-P	A.101
1315180000	UR20-8DI-P-2W	A.25
1315180000	UR20-8DI-P-2W	A.101
1315190000	UR20-8DI-P-3W-HD	A.27
1315190000	UR20-8DI-P-3W-HD	A.101
1315200000	UR20-16DI-P	A.28
1315200000	UR20-16DI-P	A.101
1315210000	UR20-16DI-P-PLC-INT	A.29
1315210000	UR20-16DI-P-PLC-INT	A.101
1315220000	UR20-4DO-P	A.39
1315220000	UR20-4DO-P	A.101
1315230000	UR20-4DO-P-2A	A.40
1315230000	UR20-4DO-P-2A	A.101
1315240000	UR20-8DO-P	A.42
1315240000	UR20-8DO-P	A.101
1315250000	UR20-16DO-P	A.44
1315250000	UR20-16DO-P	A.101
1315270000	UR20-16DO-P-PLC-INT	A.45
1315270000	UR20-16DO-P-PLC-INT	A.101
1315350000	UR20-4DI-N	A.32
1315350000	UR20-4DI-N	A.101
1315370000	UR20-8DI-N-3W	A.33
1315370000	UR20-8DI-N-3W	A.101
1315390000	UR20-16DI-N	A.34
1315390000	UR20-16DI-N	A.101
1315400000	UR20-16DI-N-PLC-INT	A.35
1315400000	UR20-16DI-N-PLC-INT	A.101
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1315420000	UR20-4DO-N-2A	A.47
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1315430000	UR20-8DO-N	A.101
1315440000	UR20-16DO-N	A.49
1315440000	UR20-16DO-N	A.101
1315450000	UR20-16DO-N-PLC-INT	A.50
1315450000	UR20-16DO-N-PLC-INT	A.101
1315540000	UR20-4RO-SSR-255	A.51
1315540000	UR20-4RO-SSR-255	A.101
1315550000	UR20-4RO-CD-255	A.52
1315550000	UR20-4RO-CD-255	A.101
1315570000	UR20-1CNT-100-100	A.79
1315570000	UR20-1CNT-100-100	A.101
1315580000	UR20-1CNT-500	A.81
1315580000	UR20-1CNT-500	A.101
1315590000	UR20-2CNT-100	A.80
1315590000	UR20-2CNT-100	A.101
1315600000	UR20-2PWM-PN-0.5A	A.55
1315600000	UR20-2PWM-PN-0.5A	A.101
1315610000	UR20-2PWM-PN-2A	A.56
1315610000	UR20-2PWM-PN-2A	A.101
1315620000	UR20-4AI-UI-16	A.59
1315620000	UR20-4AI-UI-16	A.101
1315650000	UR20-8AI-16-HD	A.64
1315650000	UR20-8AI-16-HD	A.101
1315670000	UR20-8AI-PLC-INT	A.66
1315670000	UR20-8AI-PLC-INT	A.101
1315680000	UR20-4AO-UI-16	A.73
1315680000	UR20-4AO-UI-16	A.101
1315690000	UR20-4AI-UI-16-DIAG	A.60
1315690000	UR20-4AI-UI-16-DIAG	A.101
1315700000	UR20-4AI-RTD-DIAG	A.70
1315700000	UR20-4AI-RTD-DIAG	A.101
1315710000	UR20-4AI-TC-DIAG	A.69
1315710000	UR20-4AI-TC-DIAG	A.101
1315720000	UR20-8AI-16-DIAG-HD	A.65
1315720000	UR20-8AI-16-DIAG-HD	A.101
1315730000	UR20-4AO-UI-16-DIAG	A.74
1315730000	UR20-4AO-UI-16-DIAG	A.101
1315750000	UR20-1CDM-232-485-422	A.84
1315750000	UR20-1CDM-232-485-422	A.101
1315770000	UR20-ES	A.100
1315770000	UR20-ES	A.101

Order No.	Type	Page
-----------	------	------

1330000000

1334710000	UR20-PF-I	A.95
1334710000	UR20-PF-I	A.101
1334740000	UR20-PF-O	A.96
1334740000	UR20-PF-O	A.101
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1334810000	UR20-16AUX-GND-O	A.99
1334810000	UR20-16AUX-GND-O	A.101
1334870000	UR20-FBC-PB-DP	A.9
1334870000	UR20-FBC-PB-DP	A.101
1334880000	UR20-FBC-PN-HRT	A.11
1334880000	UR20-FBC-PN-HRT	A.101
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1334920000	UR20-FBC-EIP	A.101
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1335030000	UR20-PF-O-10I-SIL	A.91
1335030000	UR20-PF-O-10I-SIL	A.101
1335040000	UR20-PF-O-2DI-DELAY-SIL	A.93
1335040000	UR20-PF-O-2DI-DELAY-SIL	A.101
1335050000	UR20-PF-O-2DI-SIL	A.92
1335050000	UR20-PF-O-2DI-SIL	A.101
1335060000	UR20-4DI-4DO-PN-FSPS	A.89
1335060000	UR20-4DI-4DO-PN-FSPS	A.101
1335070000	UR20-8DI-PN-FSPS	A.90
1335070000	UR20-8DI-PN-FSPS	A.101

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Order No.	Type	Page
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1347480000	UR20-EM-1334790000-SP	A.101
1347490000	UR20-EM-1334800000-SP	A.101
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1347550000	UR20-EM-1335060000-SP	A.101
1347570000	UR20-EM-1335070000-SP	A.101

1350000000

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1350950000	UR20-BM-PF-O-SP	A.101
1350970000	UR20-BM-PF-O-SIL-SP	A.101

1360000000

1361520000	UR20 PK FBC	A.101
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1394390000	UR20-4AI-UI-12	A.63
1394390000	UR20-4AI-UI-12	A.101
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1435740000	UR20-EM-1315710000-SP	A.101

1460000000

1460140000	UR20-2DI-P-TS	A.30
1460140000	UR20-2DI-P-TS	A.101
1460150000	UR20-4DI-P-TS	A.31
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1463690000	UR20-EM-1460140000-SP	A.101

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1475070150	SAIL-URPM-12G-C-1.5U	B.29
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1475120150	SAIL-URPM-12W-O-1.5U	B.29
1475130150	SAIL-URPM-12G-4-1.5U	B.29
1475140150	SAIL-URPM-12W-4-1.5U	B.29
1475160150	SAIL-URPM8G-3-1.5U	B.29
1475170150	SAIL-URPM8W-3-1.5U	B.29
1475280150	SAIL-URPM-12G-C-1.5V	B.29
1475290150	SAIL-URPM-12W-C-1.5V	B.29
1475300150	SAIL-URPM-12G-O-1.5V	B.29
1475310150	SAIL-URPM-12W-O-1.5V	B.29
1475320150	SAIL-URPM-12G-4-1.5V	B.29
1475330150	SAIL-URPM-12W-4-1.5V	B.29
1475340150	SAIL-URPM8G-C-1.5V	B.29
1475350150	SAIL-URPM8W-C-1.5V	B.29
1475450150	SAIL-URPM-12W-2L-1.5U	B.29
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1475500150	SAIL-URPM-12W-2L-1.5V	B.29
1475510150	SAIL-URPM8W-2L-1.5V	B.29

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1484430000	UR20-PK-1460150000-SP	A.101
1484440000	UR20-PK-1334910000-SP	A.101

Order No.	Type	Page
1906710000	SAI-AU M12 DN 16DI/8DO	B.16
1906720000	SAI-AU M12 DN AI/AO/DI	B.6
1906720000	SAI-AU M12 DN AI/AO/DI	B.15
1906720000	SAI-AU M12 DN AI/AO/DI	B.16
1906730000	SAI-AU M8 DN 16DI	B.6
1906730000	SAI-AU M8 DN 16DI	B.14
1906730000	SAI-AU M8 DN 16DI	B.16
1906740000	SAI-AU M8 DN 16DI/8DO	B.6
1906740000	SAI-AU M8 DN 16DI/8DO	B.14
1906740000	SAI-AU M8 DN 16DI/8DO	B.16

1910000000

1912130000	ESG 8/13.5/43.3 SAI AU	B.12
1912130000	ESG 8/13.5/43.3 SAI AU	B.16
1912130000	ESG 8/13.5/43.3 SAI AU	B.21

1920000000

1920000000	Screwty Set -DM	B.29
1920000000	Screwty Set -DM	B.30
1920000000	Screwty Set -DM	B.31
1920000000	Screwty Set -DM	B.32
1920000000	Screwty Set -DM	B.33
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1925570150	SAIL-M12BG-3-1.5V	B.30
1925580150	SAIL-M12BG-4-1.5V	B.30
1925630150	SAIL-M12BW-3-1.5V	B.30
1925640150	SAIL-M12BW-4-1.5V	B.30
1927240150	SAIL-M8BG-3-1.5V	B.31
1927260150	SAIL-M8BG-4-1.5V	B.31
1927320150	SAIL-M8BW-3-1.5V	B.31
1927340150	SAIL-M8BW-4-1.5V	B.31
1927350150	SAIL-M8BW-3L1.5V	B.32
1927360150	SAIL-M8BW-4L1.5V	B.32

1930000000

1938570000	SAI-AU M12 DN GW 16DI	B.6
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1938600000	SAI-AU M8 SB 8DI	B.22
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1938660000	SAI-AU M8 SB 8DO 2A	B.6
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1938690000	SAI-AU M12 SB 4AI	B.23
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1938700000	SAI-AU M12 SB 4AO	B.23
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1938710000	SAI-AU M12 SB 4PT100	B.26
1938720000	SAI-AU M12 SB 4Thermo	B.6
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1938730000	SAI-AU M12 SB 2Counter	B.21
1938730000	SAI-AU M12 SB 2Counter	B.24

1950000000

1955340000	SAIEND CAN M8 4P	B.21
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1960000000

1968560150	SAIL-M12BW-3-1.5T	B.30
1968570150	SAIL-M12BW-4-1.5T	B.30
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1980000000

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1993030000	UR20-EM-1529780000-SP	A.101
1993040000	UR20-EM-1529800000-SP	A.101

Order No.	Type	Page
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2000000000

2000520000	UR20-PK-1315440000-SP	A.101
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2003530000	UR20-PK-1334890000-SP	A.101
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2010000000

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2330000000

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2330260000	SAI-SK-M12-UNI	B.16
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2420000000

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9450000000

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9457850150	SAIL-M8BG-4-1.5U	B.31

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