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Remote I/O
Catalogue 2015
Let's connect.

Electronic interface technology



Weidmüller

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Remote I/O
2015









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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.

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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.



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IP 20

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You automate high-performance machines and production lines

u-remote generates maximum efficiency in your projects

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

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

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

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

NEW
only for u-remote:
32 connections
per module



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.



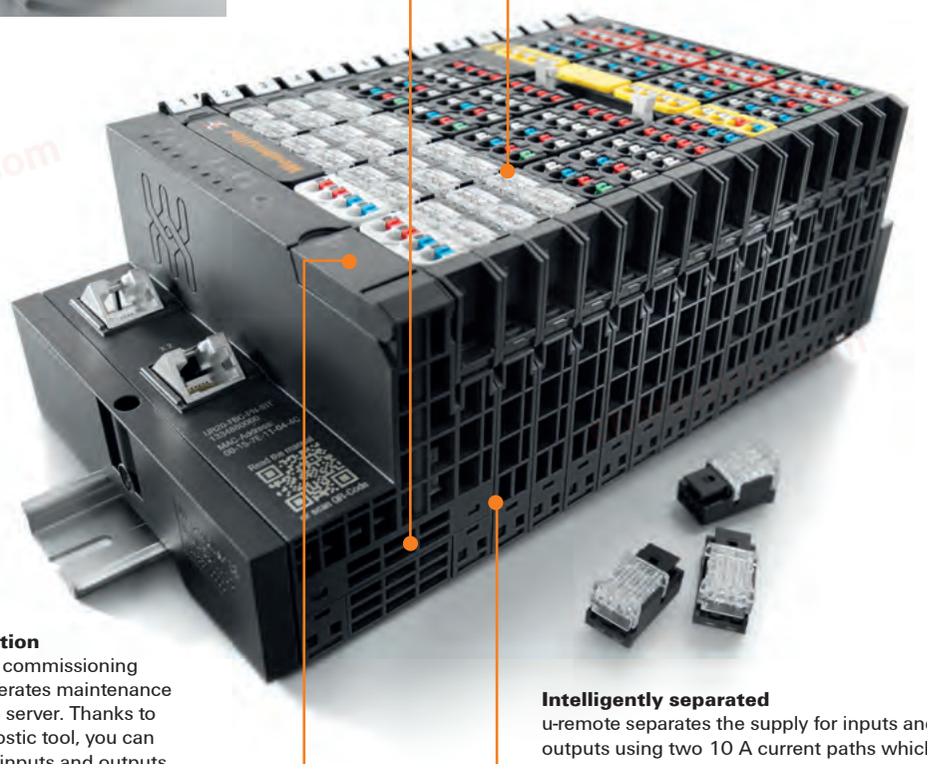
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Why waste space?
Design your cabinets one size smaller: u-remote, with the highest connection density on a module, offers you the most slender module width and a far lower space requirement for power-feed modules - an unrivaled channel density and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

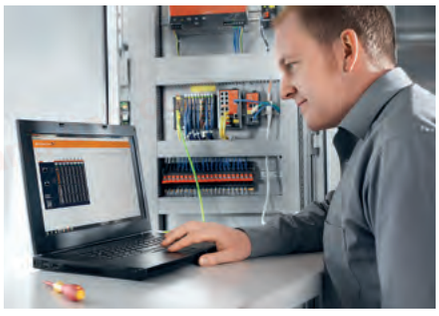


Simply plug and go
The plug-in connection level allows sensors and actuators to be connected with pre-assembled cables. This means improved time benefits, better handling, and minimises the number of mistakes in system wiring. Decentralised automation modules in particular are so very easy to transfer 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.



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Achieving higher productivity is so easy

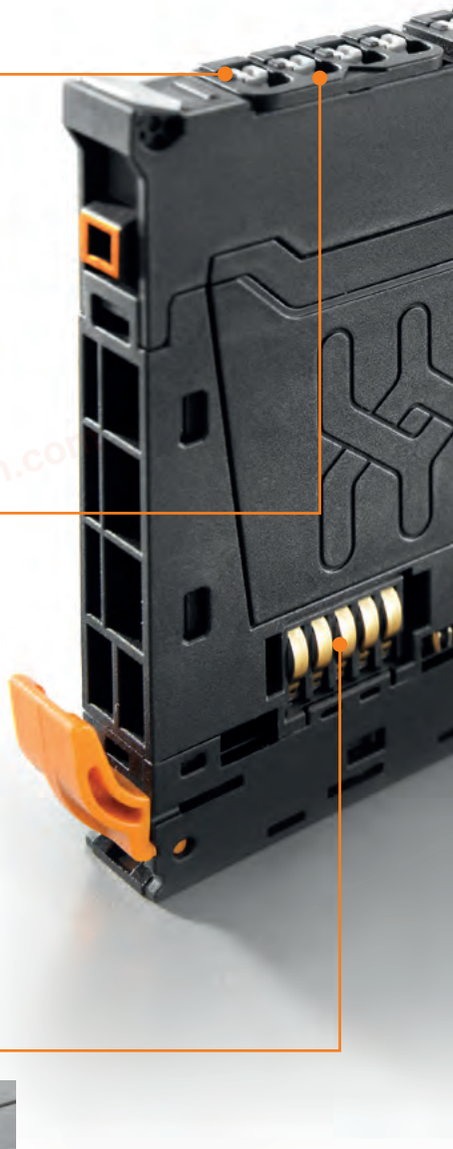
u-remote combines powerful technologies with efficient processes

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.



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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.

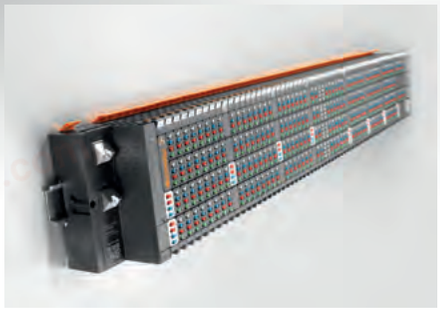




Direct insertion – direct savings
u-remote is equipped with "PUSH IN" direct connection technology. The conductor with wire end ferrule is simply inserted in the clamping unit until the stop is reached – job done! This technology delivers time savings of up to 50 percent, compared to conventional wire-connection 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.



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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 mm^2, 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.



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PROFIBUS field bus coupler

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

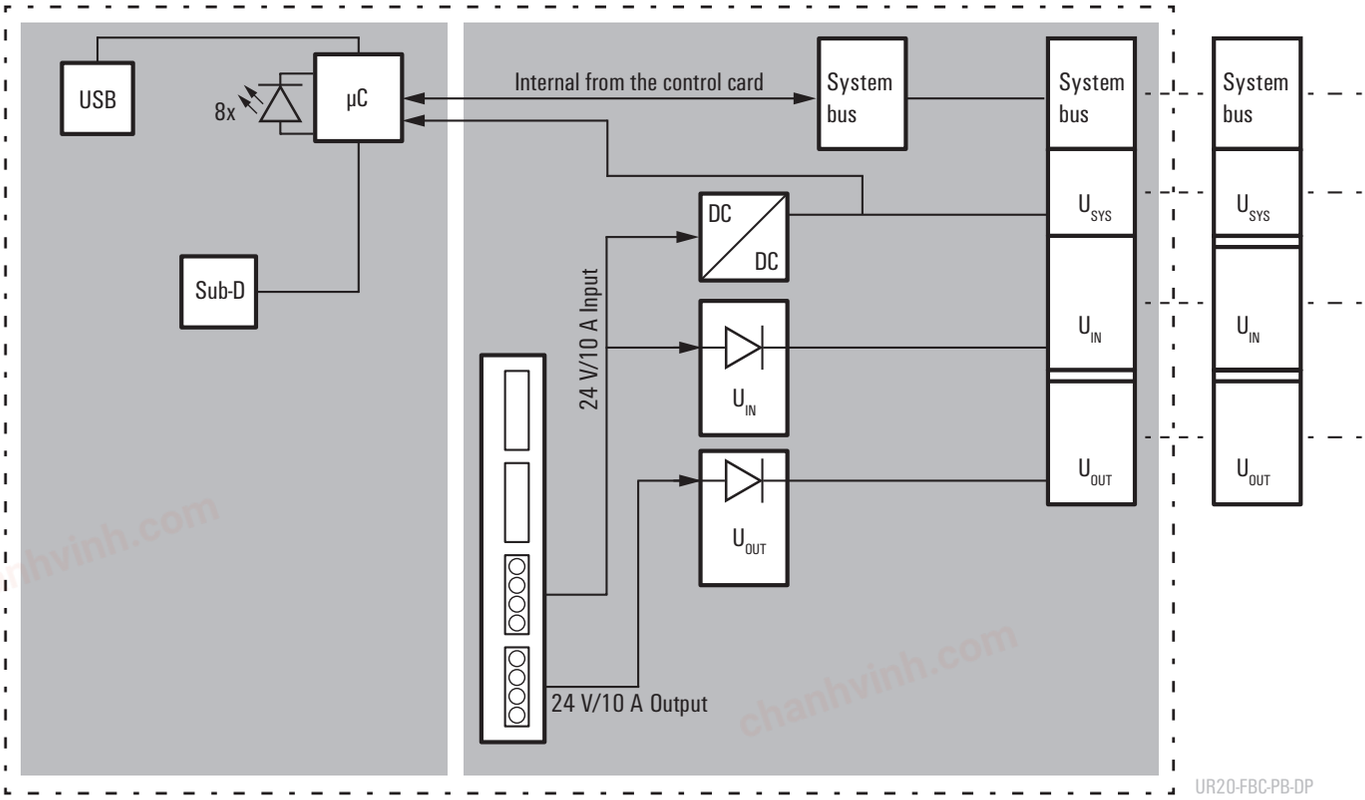
In automation technology, the PROFIBUS-DP standard enables the controlled incorporation of sensors and actuators via one central control unit. The UR20-FBC-PB-DP field bus coupler is a PROFIBUS-DP-V1 participant certified by the Profibus user organisation. With options for connecting up to 64 u-remote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

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Block diagram UR20-FBC-PB-DP



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PROFIBUS

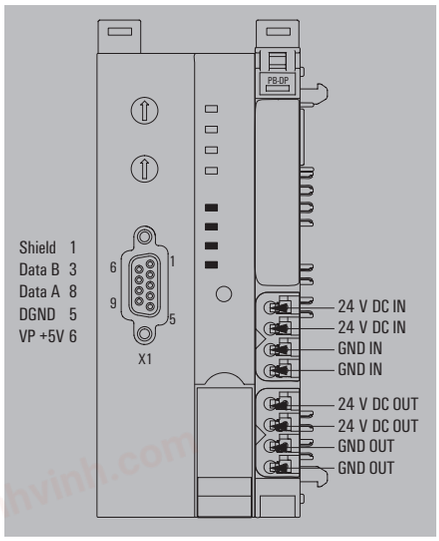
- 2 x 10 A current paths
- Address can be set using rotary switch
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C
- PROFIBUS DP-V1 up to 12 MBaud

UR20-FBC-PB-DP



Technical data

System data	
Connection	9-pin SUB-D connector
Field bus protocol	PROFIBUS DP-V1
Process data	488 Bytes
Parameter data	244 Bytes
Diagnostic data	244 Bytes
Max. number of I/O modules	64
Configuration interface	USB 2.0
Transmission rate of field bus	12 Mbit/s
Transmission speed of u-remote system bus	48 Mbit/s
Supply	
Supply voltage for system and inputs	24 V DC +20 % / -15 %
Supply voltage for outputs	24 V DC +20 % / -15 %
Feed current for input modules, max.	10 A
Feed current for output modules, max.	10 A
Current consumption (I_{IN} in power segment of field bus coupler), typ.	100 mA
General data	
Weight	220 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 52 mm x 76 mm
Note	Download of GSD-file on www.weidmueller.com



Ordering data

Module variants			
Field bus coupler, PROFIBUS DP-V1	**Type**	**Qty.**	**Order No.**
Note	UR20-FBC-PB-DP	1	**1334870000**
	A termination kit (UR20-EBK-ACC) is included in the coupler package		

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 SDRVPE	192	**1323700000**
Connection marker for pusher neutral	PM 2.7/2.6 MC NE WS	960	**1323710000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE *1)	1	**1429910000**
Thermotransfer version (Material: Polyester)	THM UR20 WS *1)	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS *2)	10	**1429430000**
USB cable (USB A to Micro USB)	IE-C6FP8LE0015M40M40-E	1	**1487980000**
Replacement parts			
Plug-in connector unit	UR20-PK-1334870000-SP	5	**1361520000**
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

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PROFINET field bus coupler

Web server tool; two RJ45 ports; 100 Mbit/s

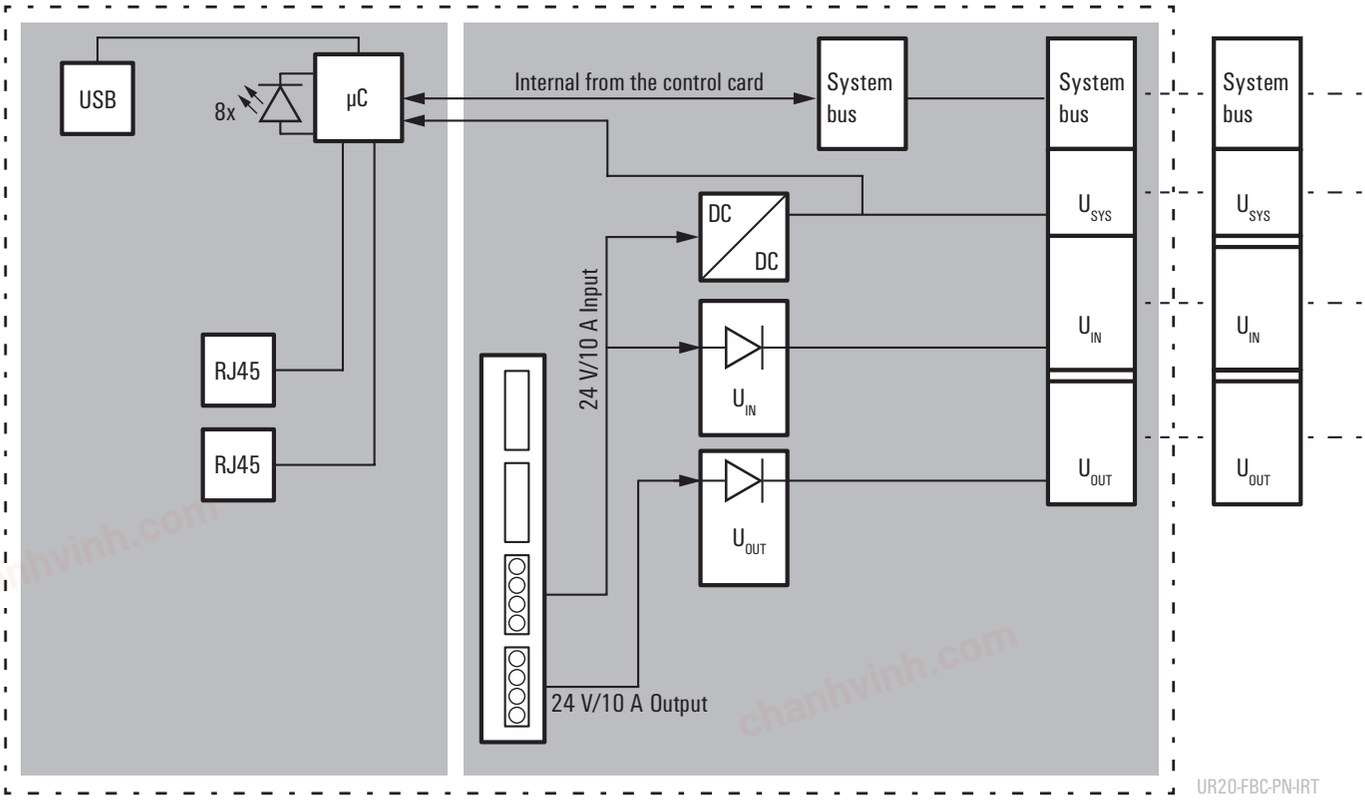
PROFINET is gaining in importance as a rapidly growing Industrial Ethernet Standard. By supporting real-time functionality (RT) and isochronous real-time functionality (IRT), the technology complies with modern system and application requirements to a large extent. The UR20-FBC-PN-IRT field bus coupler 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 PROFIBUS products from Weidmüller make full use of all the latest technological possibilities, such as GSD files and diagnosis messages, they actively support your application in the most important tasks – from engineering and commissioning to faults.

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Block diagram UR20-FBC-PN-IRT



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PROFINET

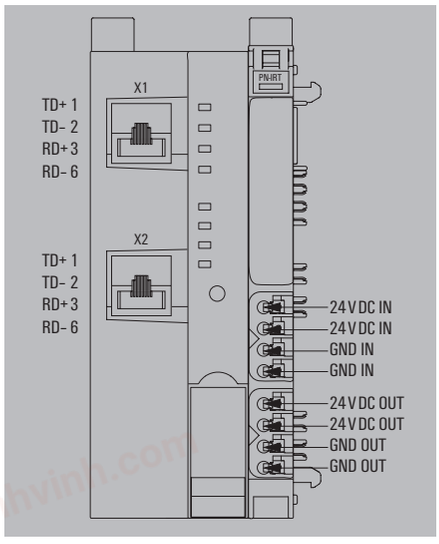
- 2 x 10 A current paths
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C
- PROFINET IRT/RT capable
- PROFINET diagnosis
- LLDP – Neighborhood detection

UR20-FBC-PN-IRT



Technical data

System data	
Connection	2 x RJ-45
Field bus protocol	PROFINET IO (RT/IRT)
Process data	1.024 Bytes
Parameter data	1.485 Bytes
Diagnostic data	1.485 Bytes
Fast startup	yes
Max. number of I/O modules	64
Configuration interface	USB 2.0
Transmission rate of field bus	100 Mbit/s
Transmission speed of u-remote system bus	48 Mbit/s
Supply	
Supply voltage for system and inputs	24 V DC +20 % / -15 %
Supply voltage for outputs	24 V DC +20 % / -15 %
Feed current for input modules, max.	10 A
Feed current for output modules, max.	10 A
Current consumption (I_{IN} in power segment of field bus coupler), typ.	116 mA
General data	
Weight	220 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 52 mm x 76 mm
Note	Download of GSD-file on www.weidmueller.com



Ordering data

Module variants	Type	Qty.	Order No.
Field bus coupler, PROFINET IRT	UR20-FBC-PN-IRT	1	**1334880000**
Note	A termination kit (UR20-EBK-ACC) is included in the coupler package		

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**
USB cable (USB A to Micro USB)	IE-C6FP8LE0015M40M40-E	1	**1487980000**
Replacement parts			
Plug-in connector unit	UR20-PK-1334880000-SP	5	**1484120000**
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

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EtherCAT field bus coupler

Web server tool; two RJ45 ports; 10/100 Mbit/s

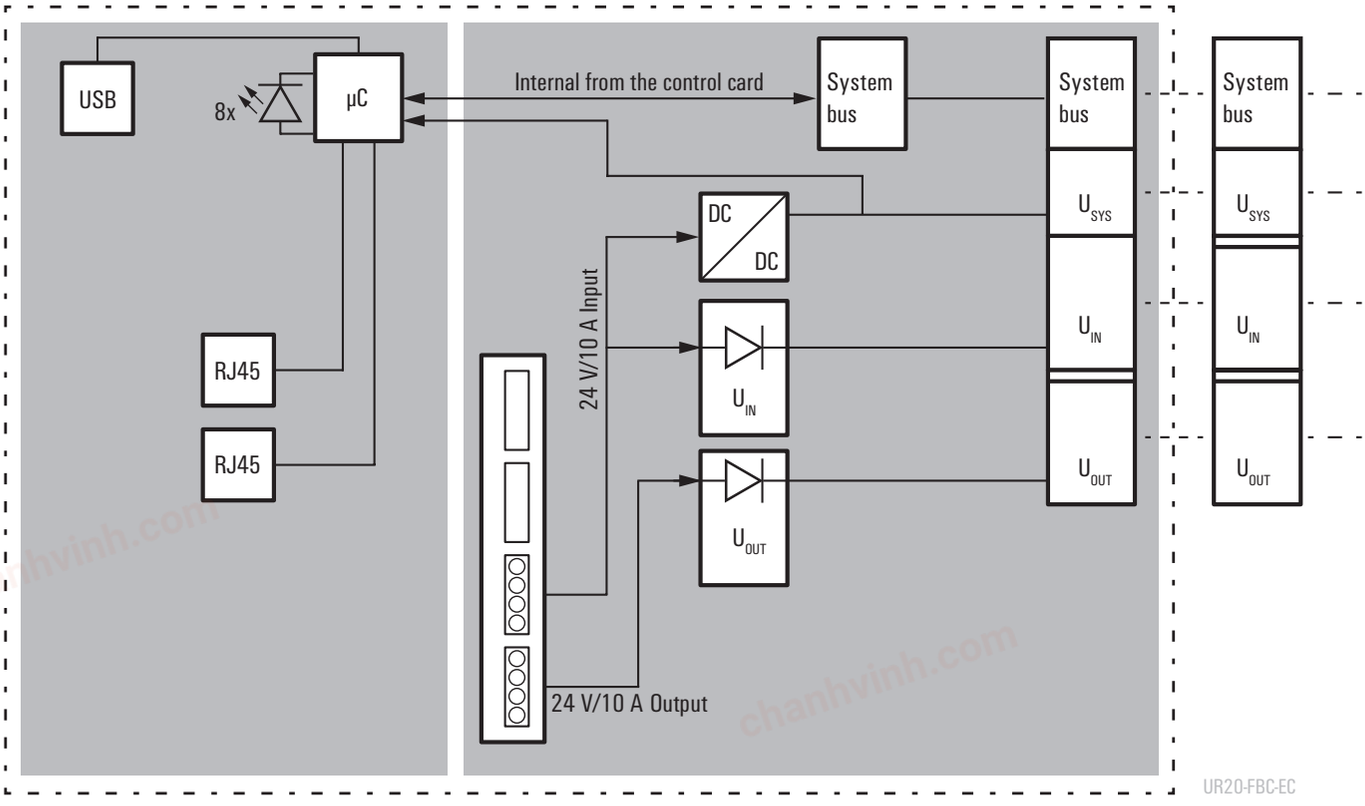
EtherCAT is a popular field bus standard for systems with stringent time requirements. The UR20-FBC-EC field bus coupler is an EtherCAT participant certified by the EtherCAT Technology Group. With options for connecting up to 64 u-remote participants, it serves as the head module for the u-remote system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

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Block diagram UR20-FBC-EC



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EtherCAT

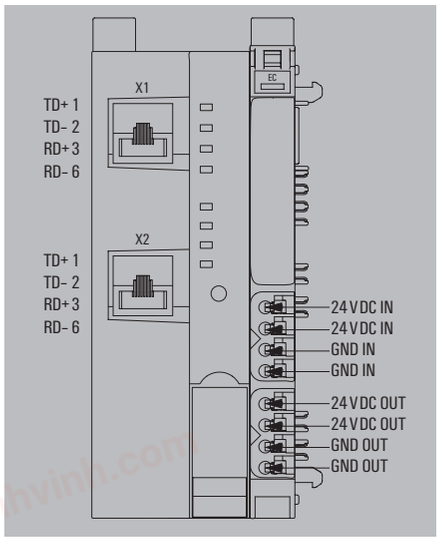
- 2 x 10 A current paths
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C
- Various EtherCAT services

UR20-FBC-EC



Technical data

System data	
Connection	2 x RJ-45
Field bus protocol	EtherCAT
Process data	1024 Byte
Parameter data	64 x 64 = 4KB
Diagnostic data	64 x 50 Bytes
Max. number of modules	64
Configuration interface	USB 2.0
Transmission rate of field bus	100 Mbit/s
Transmission speed of u-remote system bus	48 Mbit/s
Supply	
Supply voltage for system and inputs	24 V DC +20 % / -15 %
Supply voltage for outputs	24 V DC +20 % / -15 %
Feed current for input modules, max.	10 A
Feed current for output modules, max.	10 A
Current consumption (I_{IN} in power segment of field bus coupler), typ.	130 mA
General data	
Weight	220 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 52 mm x 76 mm
Note	Download of ESI-file on www.weidmueller.com



Ordering data

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

Accessories

	Type	Qty.	Order No.
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
USB cable (USB A to Micro USB)	IE-C6FP8LE0015M40M40-E	1	1487980000
Replacement parts			
Plug-in connector unit	UR20-PK-1334910000-SP	5	1484440000
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

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Modbus-TCP field bus coupler

Web server tool; two RJ45 ports; 10/100 Mbit/s

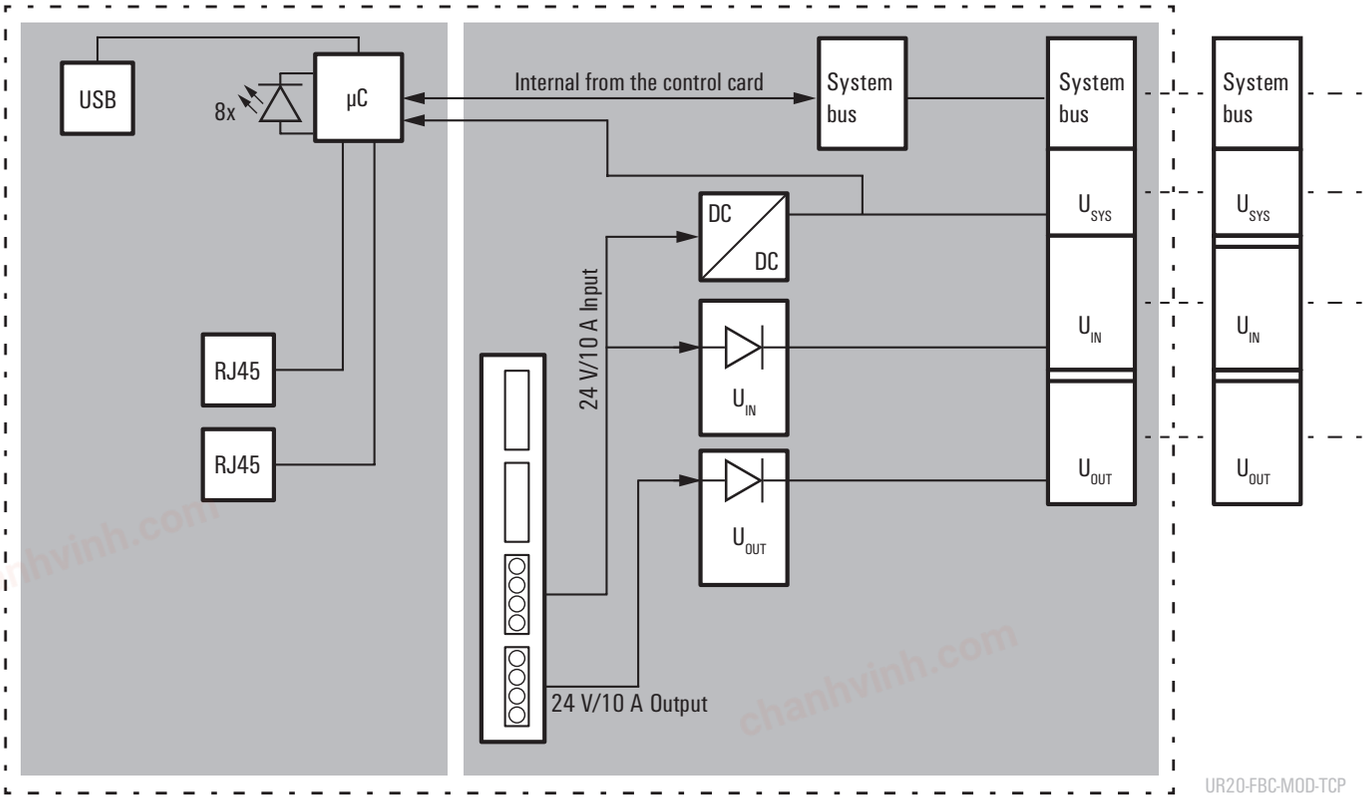
System safety around the globe is provided by the Modbus-TCP version, which is stated in IEC 61158 as an Industrial Ethernet Standard. The UR20-FBC-MOD-TCP from Weidmüller is a field bus coupler designed in accordance with IEC 61158. With options for connecting up to 64 u-remote participants, it serves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

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Block diagram UR20-FBC-MOD-TCP



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Modbus-TCP

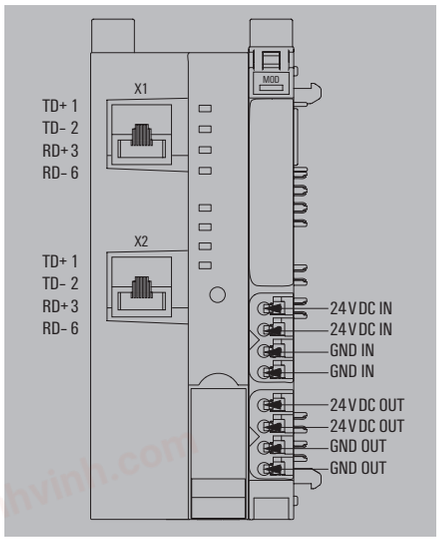
- 2 x 10 A current paths
- Various Modbus services
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C

UR20-FBC-MOD-TCP



Technical data

System data	
Connection	2 x RJ-45
Field bus protocol	Modbus TCP
Process data	8 kBytes
Parameter data	1.024 Bytes
Diagnostic data	1.024 Bytes
Max. number of modules	64
Configuration interface	USB 2.0
Transmission rate of field bus	100 Mbit/s
Transmission speed of u-remote system bus	48 Mbit/s
Supply	
Supply voltage for system and inputs	24 V DC +20 % / -15 %
Supply voltage for outputs	24 V DC +20 % / -15 %
Feed current for input modules, max.	10 A
Feed current for output modules, max.	10 A
Current consumption (I_{IN} in power segment of field bus coupler), typ.	112 mA
General data	
Weight	220 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 52 mm x 76 mm



Ordering data

Module variants	Type	Qty.	Order No.
Field bus coupler, Modbus TCP	UR20-FBC-MOD-TCP	1	1334930000
Note	A termination kit (UR20-EBK-ACC) is included in the coupler package		

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
USB cable (USB A to Micro USB)	IE-C6FP8LE0015M40M40-E	1	1487980000
Replacement parts			
Plug-in connector unit	UR20-PK-1334930000-SP	5	1484130000
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

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EtherNet/IP field bus coupler

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

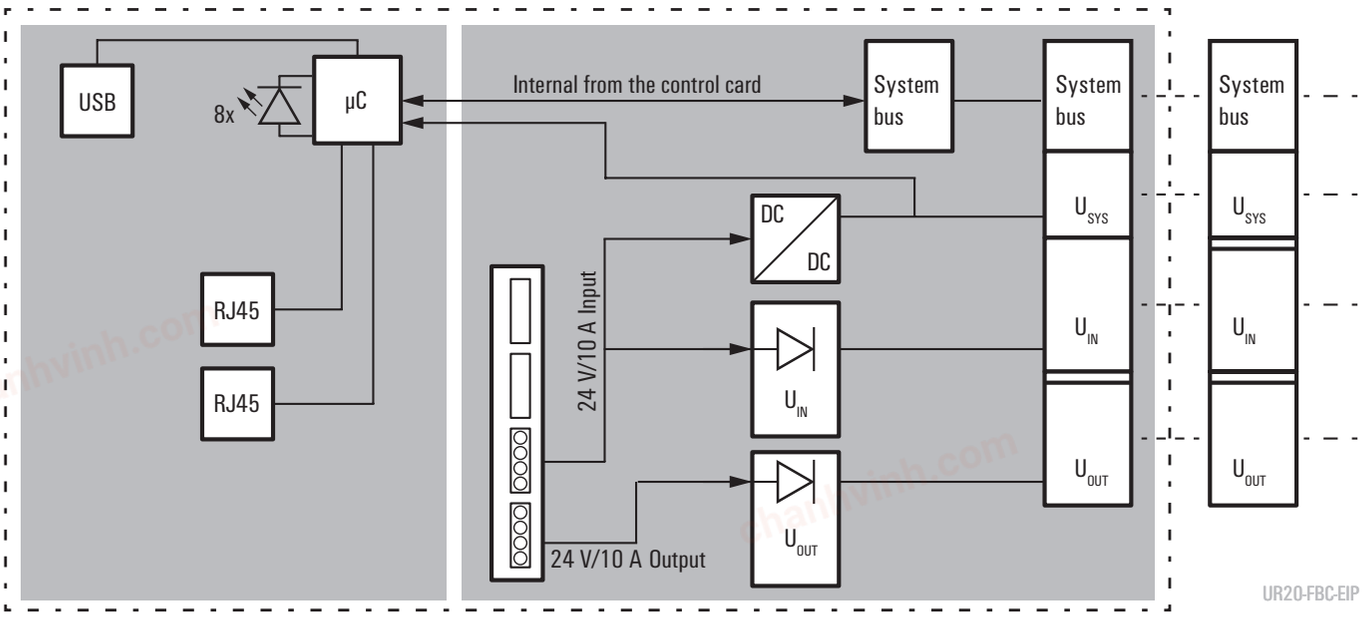
EtherNet/IP™ is a widespread, real-time capable Industrial Ethernet fieldbus system.
It is based on standard Ethernet technology such as TCP and UDP so it provides in addition to the transmission of unicast messages between two participants, the possibility of sending I/O data via multicast cyclically to multiple recipients. The UR20-FBC-EIP from Weidmüller is a field bus coupler designed in accordance with IEC 61158 and is an EtherNet/IP participant. With options for connecting up to 64 u-remote participants, it serves as the head module for the u-remote system bus.

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

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

More Performance. Simplified.

Block diagram UR20-FBC-EIP



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Ethernet/IP

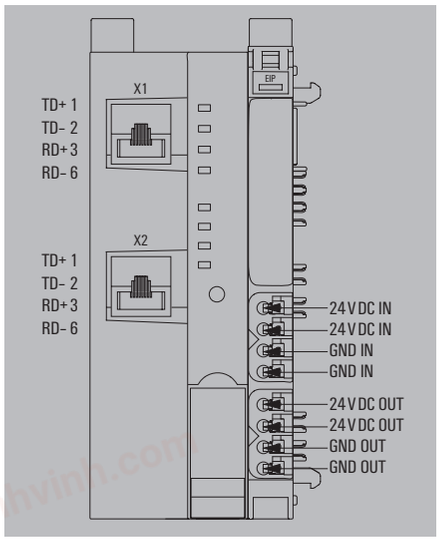
- 2 x 10 A current paths
- Web server
- System supply of 64 I/O modules
- Temperature range -20... +60 °C

UR20-FBC-EIP



Technical data

System data	
Connection	2 x RJ-45
Field bus protocol	Ethernet/IP
Process data	max. 2*494 Byte
Parameter data	max. 64*64 Byte
Diagnostic data	max. 64*47 Byte
Max. number of I/O modules	64
Configuration interface	USB 2.0
Transmission rate of field bus	100 Mbit/s
Transmission speed of u-remote system bus	48 Mbit/s
Supply	
Supply voltage for system and inputs	24 V DC +20 % / -15 %
Supply voltage for outputs	24 V DC +20 % / -15 %
Feed current for input modules, max.	10 A
Feed current for output modules, max.	10 A
Current consumption (I_{IN} in power segment of field bus coupler), typ.	112 mA
General data	
Weight	220 g
Dimensions (H/W/D)	120 mm (with catch lever 128 mm) x 52 mm x 76 mm
Note	Download of EDS-file on www.weidmueller.com



Ordering data

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

Accessories

	Type	Qty.	Order No.
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
USB cable (USB A to Micro USB)	IE-C6FP8LE0015M40M40-E	1	1487980000
Replacement parts			
Plug-in connector unit	UR20-PK-1334880000-SP	5	1484120000
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

Let's connect.

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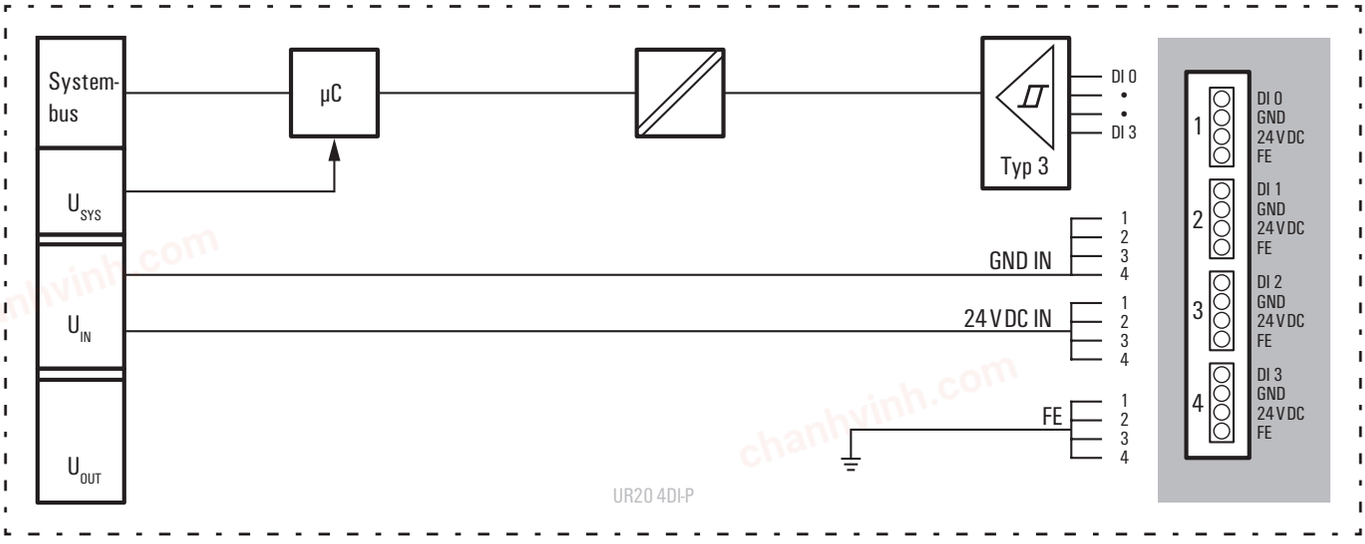
Digital input modules
Positive switching; Reverse polarity protection

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 inputs are for Type 1 and Type 3 sensors in accordance with the standard. With a maximum input frequency of up to 1 kHz, they are used in many different applications. The variant for PLC interface units enables rapid cabling to the proven Weidmüller interface sub-assemblies using system cables. This ensures rapid incorporation into your overall system. Two modules with a timestamp function are able to capture binary signals and to provide a timestamp in 1 µs resolution.

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

UR20-4DI-P block diagram example



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4DI-P

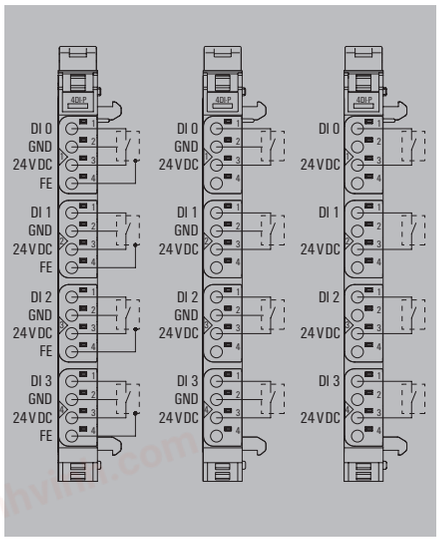
- 4 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- Reverse polarity protection
- 2-wire, 3-wire, 3-wire+FE connection
- Input filter can be set channel by channel
- Integrated sensor supply
- Types 1 and 3 acc. to IEC 61131-2

UR20-4DI-P



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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	Type	Qty.	Order No.
Digital input module, 4 channels	UR20-4DI-P	1	**1315170000**

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	ESD UR20 DIN A4 WS *2)	10	**1429430000**
Replacement parts			
Electronics module	UR20-EM-1315170000-SP	1	**1346640000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315170000-SP	5	**1346440000**
Note	*1) 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

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8DI-P-2W

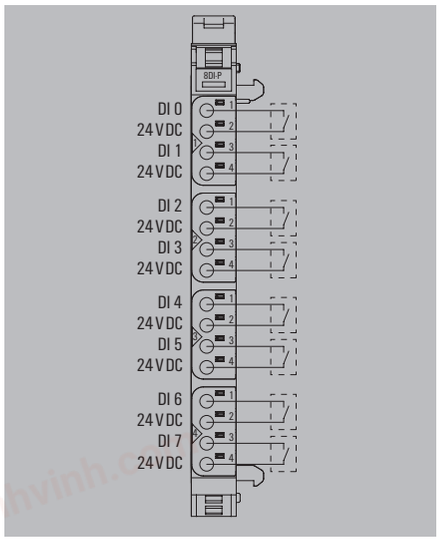
- 8 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- Reverse polarity protection
- 2-wire connection
- Input filter can be set channel by channel
- Types 1 and 3 acc. to IEC 61131-2

UR20-8DI-P-2W



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

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-1315080000-SP	1	**1346650000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315180000-SP	5	**1346430000**
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

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8DI-P-3W

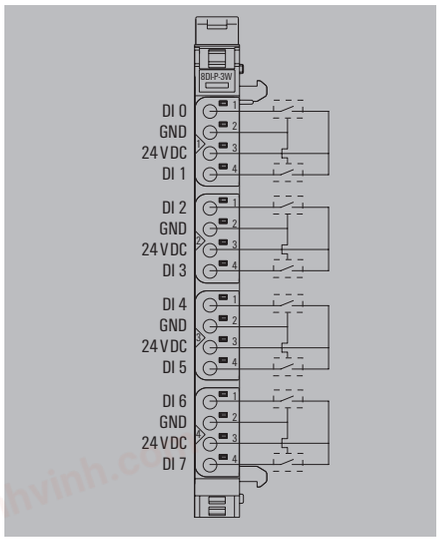
- 8 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- Reverse polarity protection
- 2-wire and 3-wire connection
- Input filter can be set channel by channel
- Integrated sensor supply
- Types 1 and 3 acc. to IEC 61131-2

UR20-8DI-P-3W



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

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	ESD UR20 DIN A4 WS *2)	10	**1429430000**
Replacement parts			
Electronics module	UR20-EM-1394400000-SP	1	**1434220000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1394400000-SP	5	**1411430000**

Note

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

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

Let's connect.

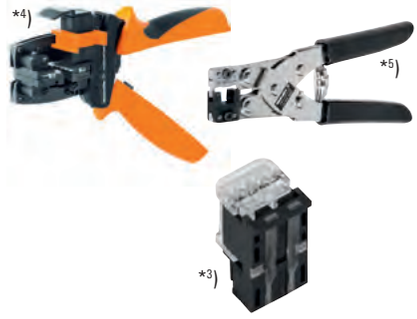
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8DI-P-3W-HD

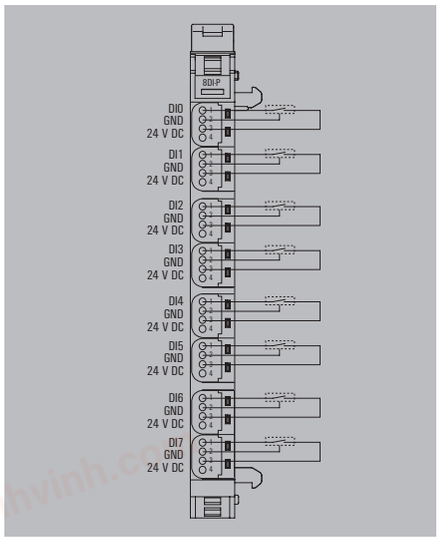
- 8 plugs with 4 connections per module
- 8 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- Reverse polarity protection
- 2-wire and 3-wire connection
- Input filter can be set channel by channel
- Integrated sensor supply
- Types 1 and 3 acc. to 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 Mbit/s
Galvanic isolation	yes, 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 lever128 mm) x 11,5 mm x 76 mm

Ordering data

Module variants	Type	Qty.	Order No.
Digital input module, 8 channels, 3-wire, HD plug	UR20-8DI-P-3W-HD	1	1315190000

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
*3) HD-Plug	UR20-PG0.35	8	1469340000
*4) Stripping tool	multi-stripax 6-16	1	9202210000
*5) Pressing tool	PWZ-UR20-HD	1	1525820000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE *1)	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS *1)	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS *2)	10	1429430000
Replacement parts			
Electronics module	UR20-EM-1315190000-SP	1	1346670000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315190000-SP	5	1518800000
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

Let's connect.

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16DI-P

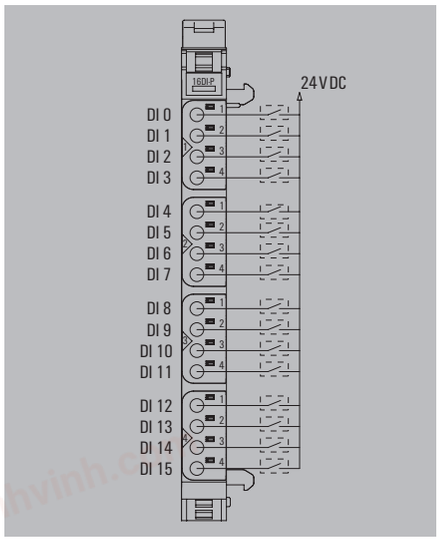
- 16 digital inputs
- Positive switching
- Reverse polarity protection
- 1-wire connection
- Permanently set input filter, 3 ms
- Types 1 and 3 acc. to IEC 61131-2

UR20-16DI-P



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

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	ESD UR20 DIN A4 WS *2)	10	**1429430000**
Replacement parts			
Electronics module	UR20-EM-1315200000-SP	1	**1346680000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315200000-SP	5	**1346400000**

Note

*1) 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

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16DI-P-PLC-INT

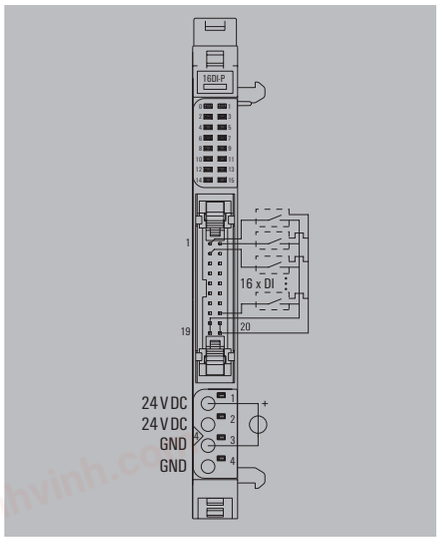
- 16 digital inputs
- Positive switching
- Reverse polarity protection
- For connecting a PLC interface element
- Permanently set input filter, 3 ms
- Types 1 and 3 acc. to IEC 61131-2

UR20-16DI-P-PLC-INT



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, DC 500 V between current paths
Supply	
Voltage supply	24 V DC +20 % / –15 % via the system bus
Current consumption (I_{IN} in power segment of field bus coupler), typ.	8 mA
Current consumption (I_{IN} external)	< 42 mA
Digital inputs	
Number	16
Input Type	Types 1 and 3, IEC 61131-2
Input filter	3 ms
Input voltage, low	< 5 V
Input voltage, high	> 11 V
Sensor supply	external
Sensor connection	PLC interface
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
General data	
Weight	73 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

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-1315210000-SP	1	**1346690000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315210000-SP	5	**1346590000**
PLC interface element	RS 16IO 1W H S	1	**9445700000**
Pre-assembled cable, 1m	PAC-UNIV-HE20-LCH-1M	1	**7789306010**

Note

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

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1315210000

Let's connect.

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2DI-P-TS

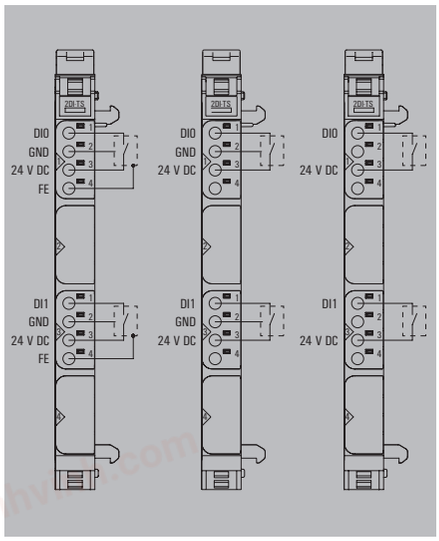
- 2 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- 2-wire, 3-wire, 3-wire+FE connection
- Input filter can be set channel by channel
- Types 1 and 3 acc. to IEC 61131-2
- 1 µs Timestamp resolution

UR20-2DI-P-TS



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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	Type	Qty.	Order No.
Digital input module, 2 channels, Timestamp	UR20-2DI-P-TS	1	1460140000

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-1460140000-SP	1	1463690000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1460140000-SP	5	1484110000

Note

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

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

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4DI-P-TS

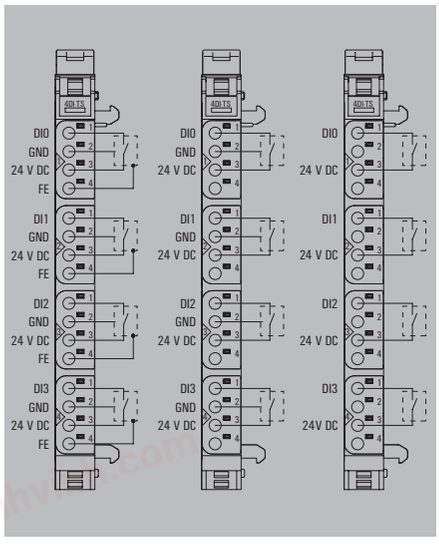
- 4 digital inputs for sensors such as transmitters, switches and proximity sensors
- Positive switching
- 2-wire, 3-wire, 3-wire+FE connection
- Input filter can be set channel by channel
- Types 1 and 3 acc. to IEC 61131-2
- 1 µs Timestamp resolution

UR20-4DI-P-TS



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 µs
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.
Digital input module, 4 channels, Timestamp	UR20-4DI-P-TS	1	**1460150000**

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-1460150000-SP	1	**1463680000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1460150000-SP	5	**1484430000**

Note

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

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

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Digital output modules

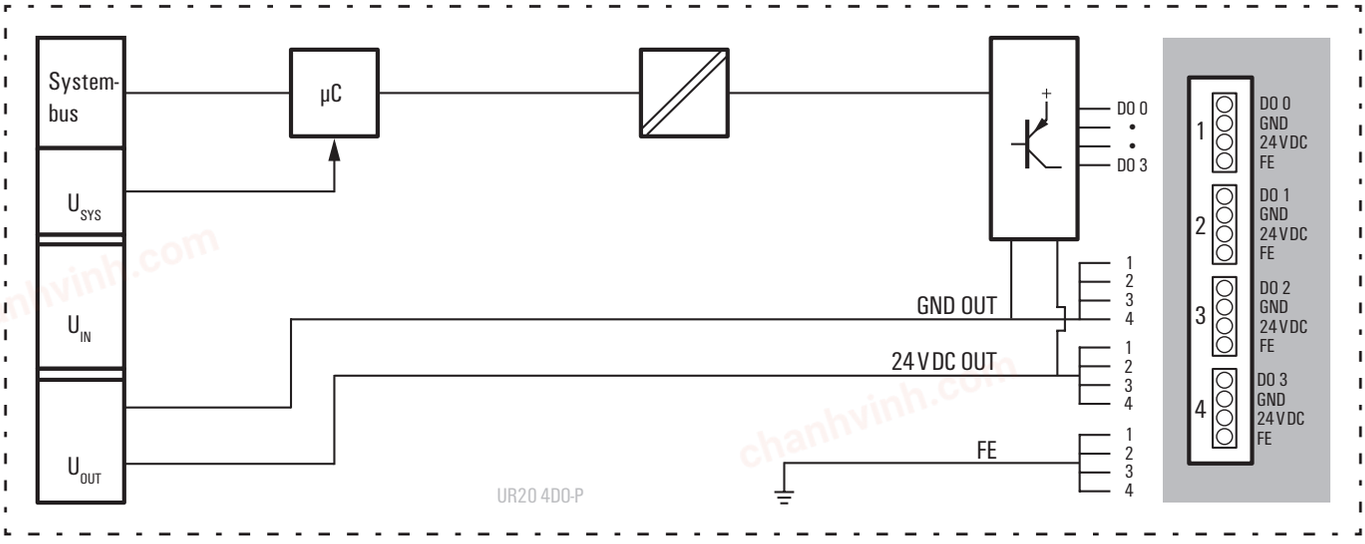
Positive switching; short-circuit-proof; up to 3-wire+FE

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.
All outputs are designed for DC-13 actuators acc. to DIN EN 60947-5-1 and IEC 61131-2 specifications. Just like the digital input modules, frequencies of up to 1 kHz are possible. Maximum system safety is ensured by protecting the outputs. This consists of an automatic restart following a short-circuit. Clearly recognisable LEDs also signal the status of the entire module as well as individual channels.

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

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

UR20-4DO-P block diagram example



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4DO-P

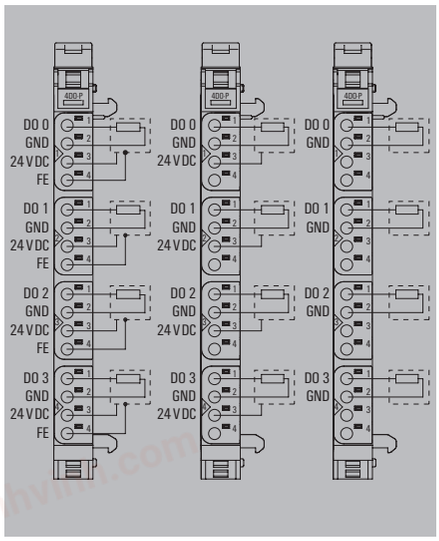
- 4 digital outputs
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- 2-wire, 3-wire, 3-wire+FE connection
- Positive switching
- DC-13 load
- IEC 61131-2 compliant

UR20-4DO-P



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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.	0.5 A
Output current per module, max.	2 A
Switching frequency max.	
Resistive load (min. 47 Ω)	1 kHz
Inductive load (DC 13)	2 Hz
Lamp load (12 W)	1 kHz
Actuator connection	2-wire, 3-wire, 3-wire+FE
Short-circuit-proof	thermal
Non reactiv	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 lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

*) 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)	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-1315220000-SP	1	**1346700000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315220000-SP	5	**1483960000**

*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-1315220000

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Digital output modules

4DO-P-2A

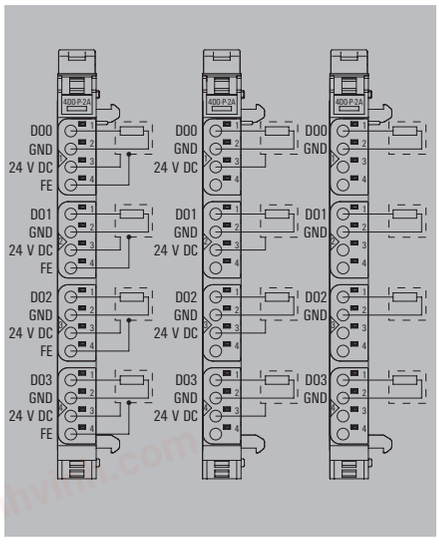
- 4 digital outputs
- Module can be loaded up to 8 A
- Can be loaded up to 2 A per channel
- Short-circuit-proof
- 2-wire, 3-wire, 3-wire+FE connection
- Positive switching
- DC-13 load
- IEC 61131-2 compliant

UR20-4DO-P-2A



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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.	
Resistive load (min. 47 Ω)	1 kHz
Inductive load (DC 13)	2 Hz
Lamp load (12 W)	1 kHz
Actuator connection	2-wire, 3-wire, 3-wire+FE
Short-circuit-proof	thermal
Non reactiv	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 lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

*) 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)	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-1315230000-SP	1	**1346710000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	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

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4DO-PN-2A

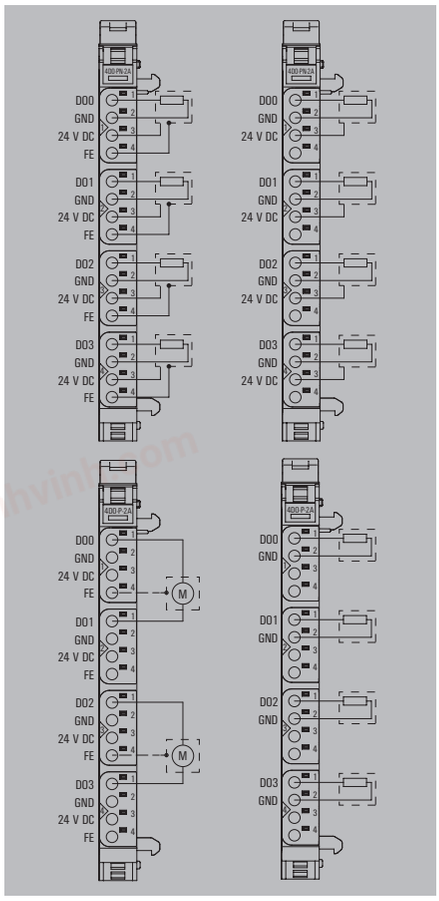
- 4 digital outputs
- Module can be loaded up to 8 A
- Can be loaded up to 2 A per channel
- Short-circuit-proof
- Positive or negative switching
- 2-wire, 3-wire, 3-wire+FE connection
- IEC 61131-2 compliant

UR20-4DO-PN-2A



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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
Positive or negative switching	parameterise
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.	
Resistive load (min. 47 Ohm)	1 kHz
Inductive load (DC 13)	2 Hz
Lamp load (12 W)	1 kHz
Actuator connection	2-wire, 3-wire, 3-wire+FE
Short-circuit-proof	thermal
Non reactiv	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	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, 4 channels, positively or negatively switching

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

*) 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)	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-1394420000-SP	1	1480950000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1394420000-SP	5	1483980000

*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

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Digital output modules

8DO-P

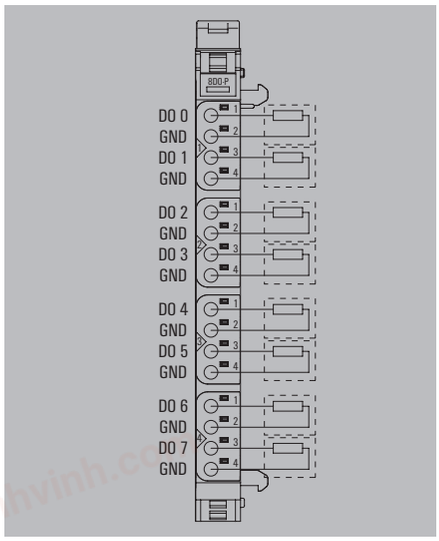
- 8 digital outputs
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- 2-wire connection
- Positive switching
- DC-13 load
- IEC 61131-2 compliant

UR20-8DO-P



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 µs
Response time, low	250 µs
Output current per channel, max.	0.5 A
Output current per module, max.	4 A
Switching frequency max.	
Resistive load (min. 47 Ω)	1 kHz
Inductive load (DC 13)	0.2 Hz without snubber diode / 1 kHz with suitable snubber diode
Lamp load (12 W)	1 kHz
Actuator connection	2-wire
Short-circuit-proof	thermal
Non reactiv	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	87 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, 8 channels	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

	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-1315240000-SP	1	**1346720000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315240000-SP	5	**1346410000**

Note

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

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

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8DO-P-2W-HD

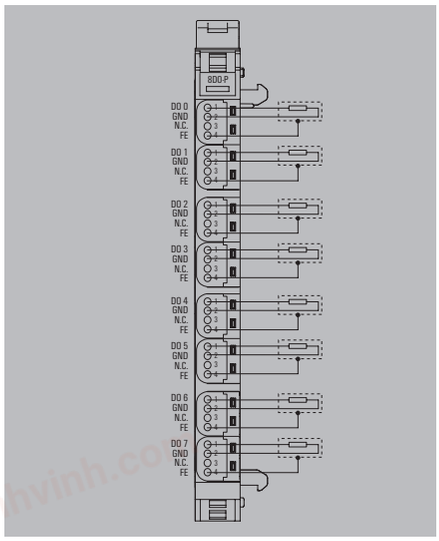
- 8 digital outputs
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- 2-wire connection
- Positive switching
- DC-13 load
- IEC 61131-2 compliant

UR20-8DO-P-2W-HD





Note: Please order connector separately



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
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_{OUT} in the respective power segment)	40 mA + load
Digital outputs	
Number	8
Type of load	ohmic, inductive, lamp load
Response time, high	max. 50 µs
Response time, low	max. 100 µs
Output current per channel, max.	0.5 A
Output current per module, max.	4
Switching frequency max.	
Resistive load (min. 47 Ω)	1 kHz
Inductive load (DC 13)	0.2 Hz without snubber diode / 1 kHz with suitable snubber diode
Lamp load (12 W)	1 kHz
Actuator connection	2-wire
Short-circuit-proof	thermal
Non reactiv	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	88 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11.5 mm x 76 mm

Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, 8 channels, HD-plug	UR20-8DO-P-2W-HD	1	**1509830000**
Note			

Accessories

	Type	Qty.	Order No.
Coding elements	KOSM BHZ5.00	100	**1483050000**
Termination kit	UR20-EBK-ACC	5	**1346610000**
Swivel marker	UR20-SM-ACC	20	**1339920000**
*3) HD-Plug	UR20-PG0.35	8	**1469340000**
*4) Stripping tool	multi-stripax 6-16	1	**9202210000**
*5) Pressing tool	PWZ-UR20-HD	1	**1525820000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE *1)	1	**1429910000**
Thermotransfer version (Material: Polyester)	THM UR20 WS *1)	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS *2)	10	**1429430000**
Replacement parts			
Electronics module	UR20-EM-1509830000-SP	1	**1515450000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1509830000-SP	5	**1559720000**
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

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Digital output modules

16DO-P

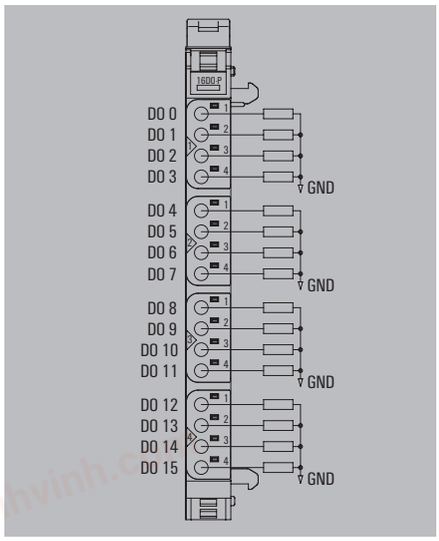
- 16 digital outputs
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- 1-wire connection
- Positive switching
- DC-13 load
- IEC 61131-2 compliant

UR20-16DO-P



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 µs
Response time, low	250 µs
Output current per channel, max.	0.5 A
Output current per module, max.	8 A
Switching frequency max.	
Resistive load (min. 47 Ω)	1 kHz
Inductive load (DC 13)	2 Hz
Lamp load (12 W)	1 kHz
Actuator connection	1-wire
Short-circuit-proof	thermal
Non reactiv	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	83 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, 16 channels	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

	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-1315250000-SP	1	**1346730000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315250000-SP	5	**1483990000**
Note			

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

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

Let's connect.

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16DO-P-PLC-INT

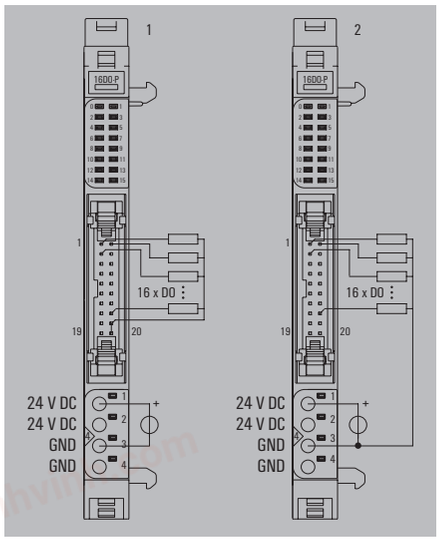
- 16 digital outputs
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- For connecting a PLC interface element
- Positive switching
- DC-13 load
- IEC 61131-2 compliant

UR20-16DO-P-PLC-INT



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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} external)	20 mA + load
Digital outputs	
Number	16
Type of load	ohmic, inductive, lamp load
Response time, high	100 µs
Response time, low	250 µs
Output current per channel, max.	0.5 A
Output current per module, max.	8 A (2 A with supply via a flat ribbon cable)
Switching frequency max.	
Resistive load (min. 47 Ω)	1 kHz
Inductive load (DC 13)	2 Hz
Lamp load (12 W)	1 kHz
Actuator connection	PLC interface
Short-circuit-proof	thermal
Non reactiv	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	82 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

*) 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)	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-1315270000-SP	1	**1346740000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315270000-SP	5	**1483940000**
PLC interface element	RS 16I0 1W H S	1	**9445700000**
Pre-assembled cable, 1m	PAC-UNIV-HE20-LCH-1M	1	**7789306010**

Note

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

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

Let's connect.

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4RO-SSR-255

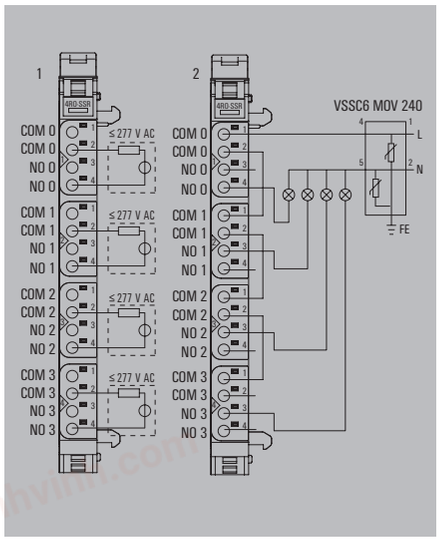
- 4 digital outputs
- Can be loaded up to 0.5 A per channel
- Solid-state relay

UR20-4RO-SSR-255



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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	SSR /Triac
Response time, high	max. 20 ms, zero-crossing-detection
Response time, low	max. 20 ms, zero-crossing-detection
Output current per channel, max.	0.5 A
Output current per module, max.	2 A
Switching frequency max.	40 Hz
Short-circuit-proof	no
Non reactiv	yes
Switching voltage max.	277 V AC *)
Module diagnosis	yes
Individual channel diagnosis	no
General data	
Weight	83 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

*) 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)	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-1315540000-SP	1	1347120000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315540000-SP	5	1484000000

*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.

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4RO-CO-255

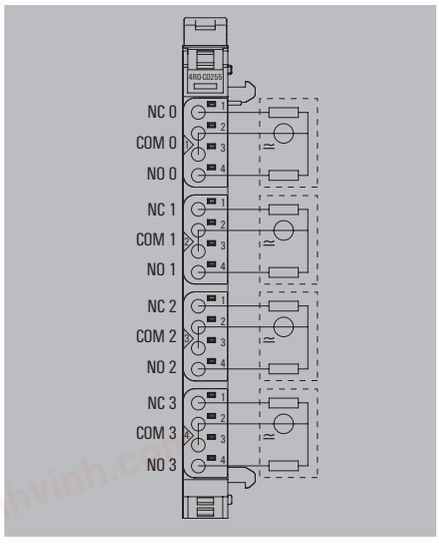
- 4 digital outputs
- Can be loaded up to 6 A per channel
- Relay output, change-over contact
- Switching voltage 277 V AC/DC

UR20-4RO-CO-255



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 reactiv	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 lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

*) 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)	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-1315550000-SP	1	1347130000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315550000-SP	5	1346500000

*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-1315550000

Let's connect.

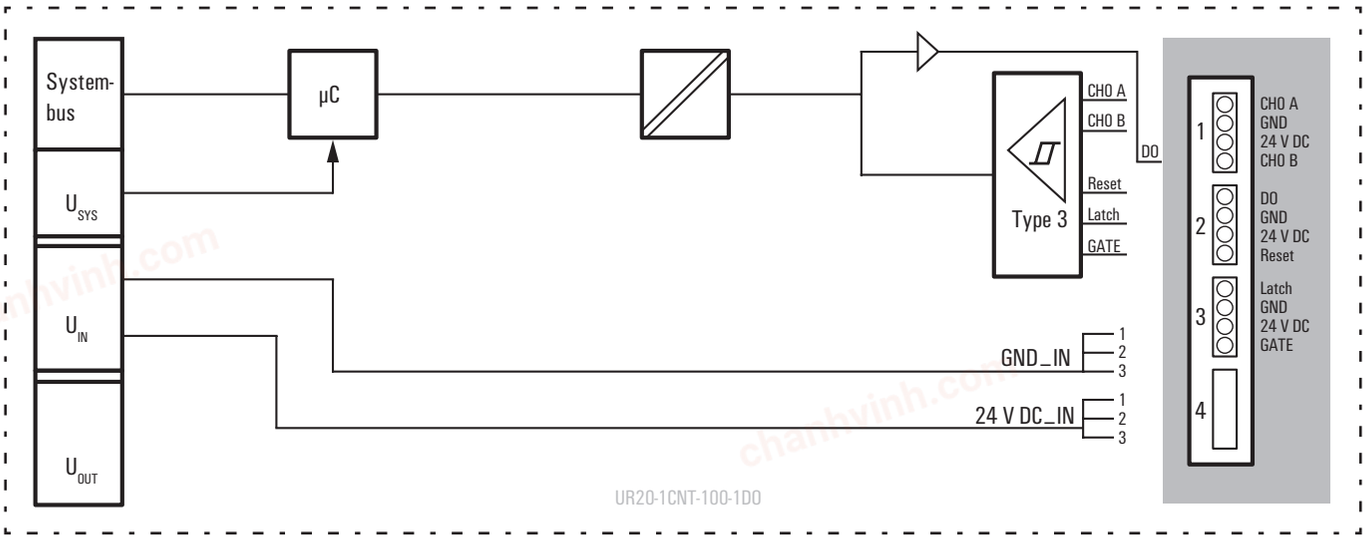
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Digital counter modules

100 kHz; 32-Bit Counter data width; Single channel diagnosis

In automated systems, it is impossible to imagine industry without the collection of incremental values.
Developed specifically for these applications Weidmüller now offers two counter modules that can take values with an input frequency of up to 100 kHz.
The 2CNT-100 module has two independent counter inputs and is supplemented by the module 1CNT-100-1DO with only one counter, but additional options. A Latch-, Gate- and Reset input allows external control of the counter. In addition, a digital output can trigger an immediate event, when there are compared values set.
The module electronics supply the connected sensors from the input current path (U_{IN}).

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



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1CNT-100-1DO

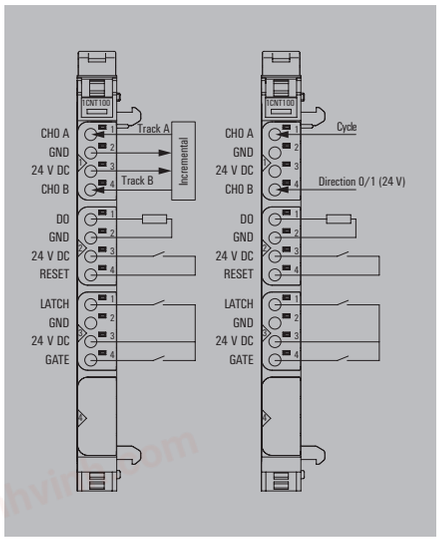
- Latch-, Gate- and Reset input
- Counter data width 32-Bit
- Maximum input frequency 100 kHz
- Operation mode impulse, direction, 1-, 2- or 4-times
- Sensor feed
- Input filter adjustable up to 1 ms
- One digital output

UR20-1CNT-100-1DO



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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	no
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	Type	Qty.	Order No.
Digital counter module, 1 channel, 100 kHz	UR20-1CNT-100-1DO	1	**1315570000**

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-1315570000-SP	1	**1347140000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315570000-SP	5	**1346520000**
Note			

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

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

Let's connect.

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2CNT-100

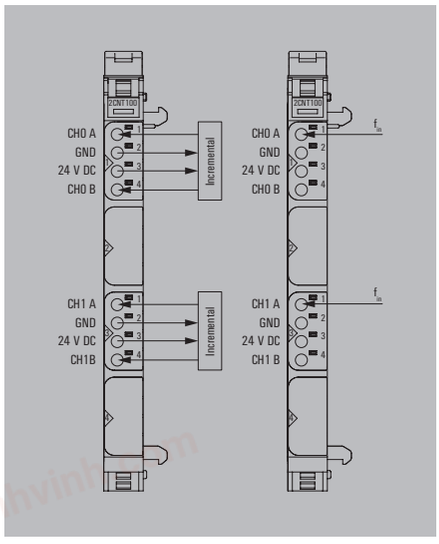
- Counter data width 32 Bit
- Maximum input frequency 100 kHz
- Operation mode impulse, direction, 1-, 2- or 4-times
- Sensor feed
- Input filter adjustable up to 1 ms

UR20-2CNT-100



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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	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	no
Input current per channel, max.	3.5 mA
Counter data width	32 Bit
Input frequency, max.	100 kHz
Counter frequency, max.	400 kHz
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	Type	Qty.	Order No.
Digital counter module, 2 channel, 100 kHz	UR20-2CNT-100	1	1315590000

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-1315590000-SP	1	1347150000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315590000-SP	5	1346540000
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

Let's connect.

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2FCNT-100

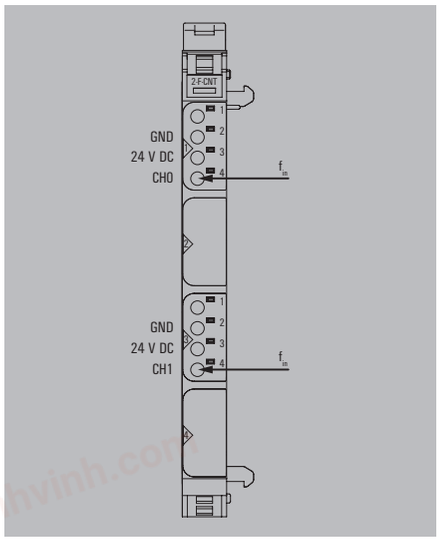
- Counter data width 32 Bit
- Maximum input frequency 100 kHz
- Operation mode impulse
- Sensor feed
- Input filter adjustable up to 1 ms

UR20-2FCNT-100



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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	Type	Qty.	Order No.
Digital frequency counter module, 2 channel, 100 kHz	UR20-2FCNT-100	1	1508080000

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-1508080000-SP	1	1515440000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1508080000-SP	5	1518840000
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

Let's connect.

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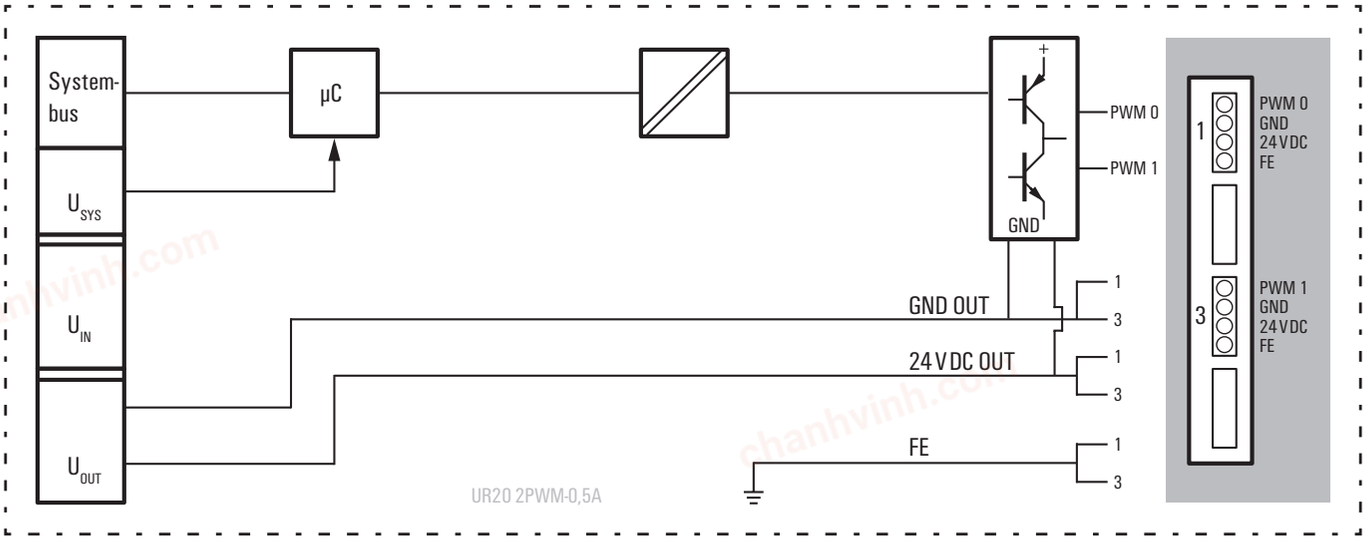
Pulse width modulation modules

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



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2PWM-PN-0.5A

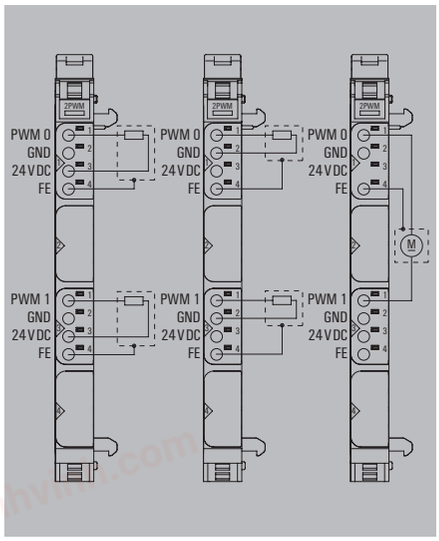
- 2 pulse width modulation module outputs
- Can be loaded up to 0.5 A per channel
- Short-circuit-proof
- Push/pull output
- Maximum 40 kHz output frequency (adjustable)

UR20-2PWM-PN-0.5A



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 reactiv	yes
Pulse duty factor	0 - 100 % push/pull or push parameterisable
General data	
Weight	77 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, PWM, 2 channels, 0.5 A	UR20-2PWM-PN-0.5A	1	**1315600000**

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-1315600000-SP	1	**1347180000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315600000-SP	5	**1484010000**
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

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Pulse width modulation modules

2PWM-PN-2A

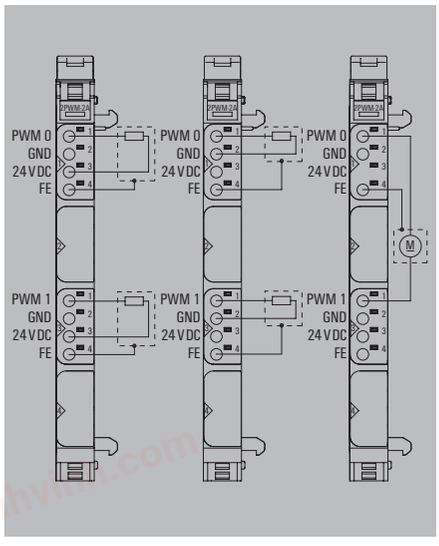
- 2 pulse width modulation module outputs
- Can be loaded up to 2 A per channel
- Short-circuit-proof
- Push/pull output
- Maximum 40 kHz output frequency (adjustable)

UR20-2PWM-PN-2A



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 reactiv	yes
Pulse duty factor	0 - 100 % push/pull or push parameterisable
General data	
Weight	82 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

Module variants	Type	Qty.	Order No.
Digital output module, PWM, 2 channels, 2 A	UR20-2PWM-PN-2A	1	**1315610000**

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-1315610000-SP	1	**1347190000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315610000-SP	5	**1346550000**
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

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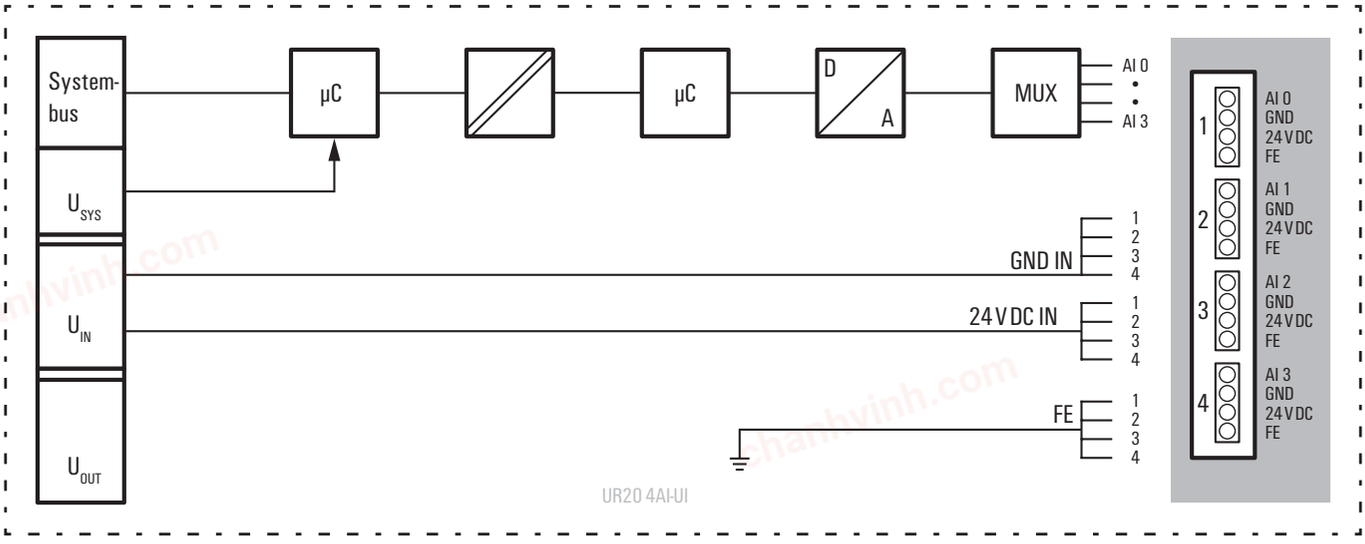
Analogue input modules

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



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4AI-UI-16

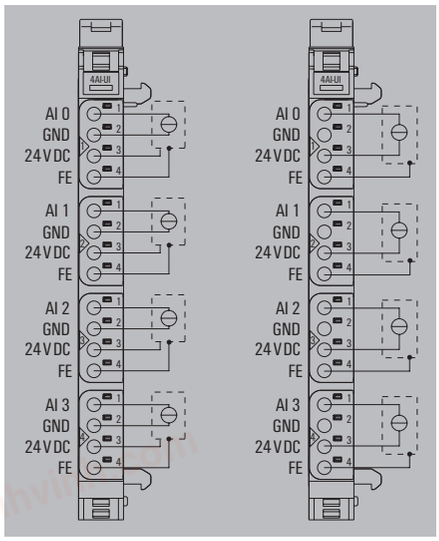
- 4 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire+FE connection
- Accuracy 0.1 % FSR

UR20-4AI-UI-16



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 kΩ
Internal resistance I	41.2 Ω
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
Short-circuit-proof	yes
General data	
Weight	89 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

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-1315620000-SP	1	**1347200000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315620000-SP	5	**1484020000**
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

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4AI-UI-16-DIAG

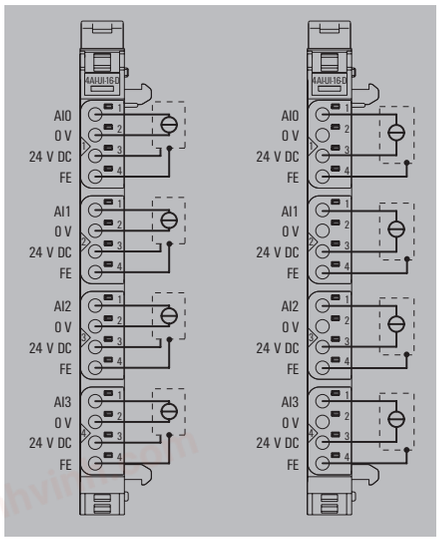
- Advanced diagnosis functions
- 4 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire+FE connection
- Accuracy 0.1 % FSR

UR20-4AI-UI-16-DIAG



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 kΩ
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 lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

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-1315690000-SP	1	**1347280000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	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

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4AI-UI-16-HD

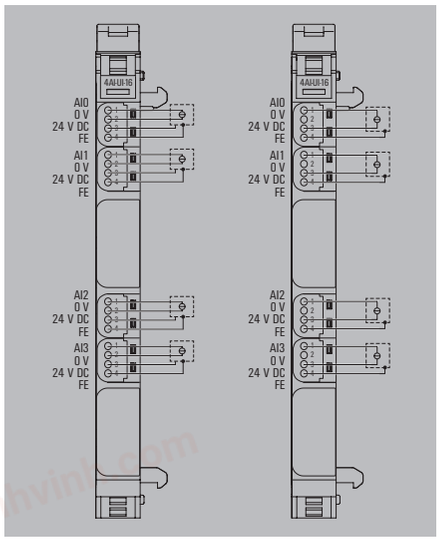
- 4 plugs with 4 connections per module
- 4 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire+FE connection
- Accuracy 0.1 % FSR

UR20-4AI-UI-16-HD





Note: Please order connector separately



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 kΩ
Internal resistance I	approx. 45 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 lever128 mm) x 11,5 mm x 76 mm

Ordering data

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

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
*3) HD-Plug	UR20-PG0.35	8	1469340000
*4) Stripping tool	multi-stripax 6-16	1	9202210000
*5) Pressing tool	PWZ-UR20-HD	1	1525820000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE *1)	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS *1)	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS *2)	10	1429430000
Replacement parts			
Electronics module	UR20-EM-1506920000-SP	1	1515420000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1506920000-SP	5	1518830000
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

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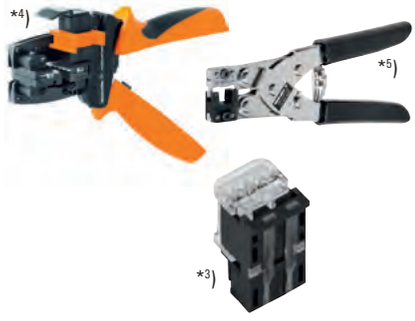
Analogue input modules

4AI-UI-16-DIAG-HD

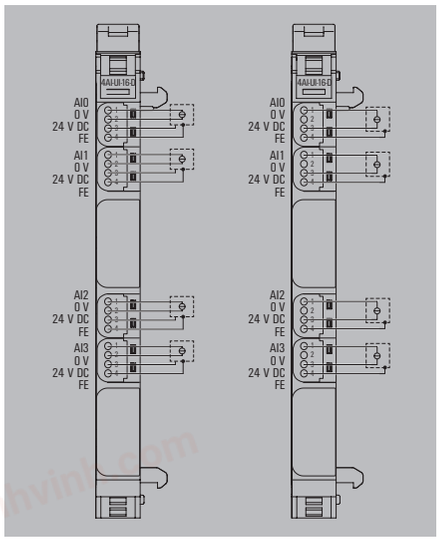
- 4 plugs with 4 connections per module
- Advanced diagnosis functions
- 4 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire+FE connection
- Accuracy 0.1 % FSR

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





Note: Please order connector separately



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 kΩ
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 lever128 mm) x 11,5 mm x 76 mm

Ordering data

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

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**
*3) HD-Plug	UR20-PG0.35	8	**1469340000**
*4) Stripping tool	multi-stripax 6-16	1	**9202210000**
*5) Pressing tool	PWZ-UR20-HD	1	**1525820000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE *1)	1	**1429910000**
Thermotransfer version (Material: Polyester)	THM UR20 WS *1)	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS *2)	10	**1429430000**
Replacement parts			
Electronics module	UR20-EM-1506910000-SP	1	**1515430000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1506910000-SP	5	**1518820000**
Note			

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

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

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4AI-UI-12

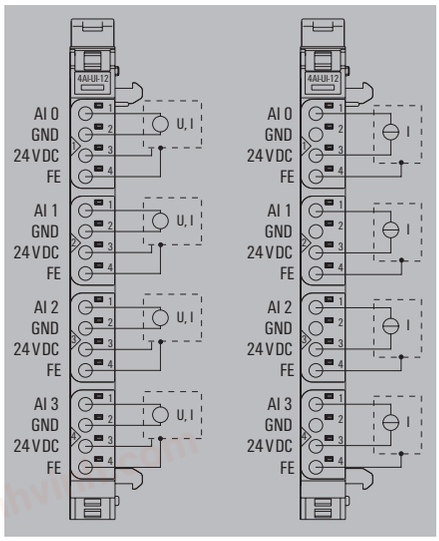
- 4 analogue inputs
- Parameterisable inputs (voltage, current)
- 12-bit resolution
- 2-wire, 3-wire and 3-wire+FE connection
- Accuracy 0.25 % FSR

UR20-4AI-UI-12



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 kΩ
Internal resistance I	41.2 Ω
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	no
Short-circuit-proof	yes
General data	
Weight	87 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

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-1394390000-SP	1	**1434230000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1394390000-SP	5	**1484030000**
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

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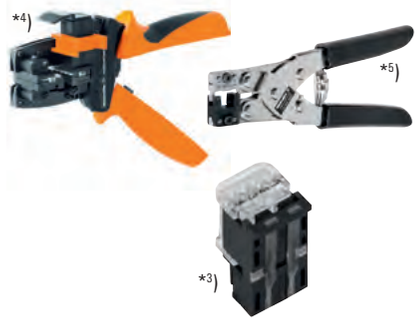
Analogue input modules

8AI-I-16-HD

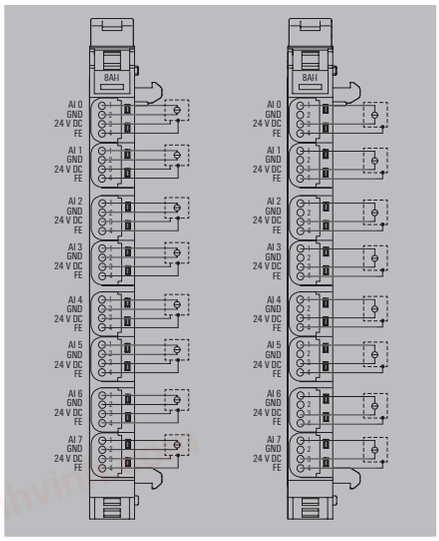
- 8 plugs with 4 connections per module
- 8 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire+FE connection
- Accuracy 0.1 % FSR
- HD plug

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 Mbit/s
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 ($_{IIN}$ 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 lever128 mm) x 11.5 mm x 76 mm

Ordering data

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

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
*3) HD-Plug	UR20-PG0.35	8	1469340000
*4) Stripping tool	multi-stripax 6-16	1	9202210000
*5) Pressing tool	PWZ-UR20-HD	1	1525820000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE *1)	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS *1)	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS *2)	10	1429430000
Replacement parts			
Electronics module	UR20-EM-1315650000-S	1	1347240000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315650000-SP	5	1559740000

Note

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

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

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8AI-I-16-DIAG-HD

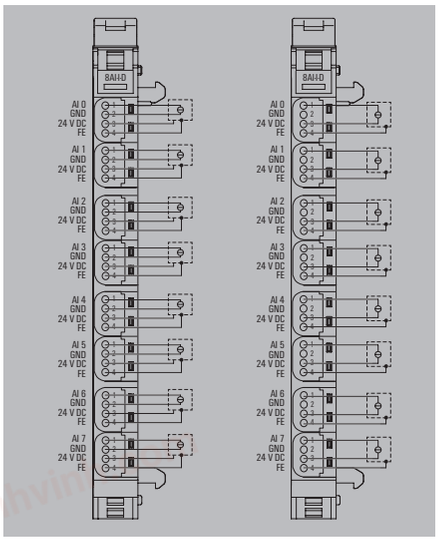
- 8 plugs with 4 connections per module
- Advanced diagnosis functions
- 8 analogue inputs
- Parameterisable inputs (voltage, current)
- 16-bit resolution
- 2-wire, 3-wire and 3-wire+FE connection
- Accuracy 0.1 % FSR

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





Note: Please order connector separately



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 ($_{IIN}$ 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	yes
Short-circuit-proof	yes
General data	
Weight	73 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11.5 mm x 76 mm

Ordering data

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

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
*3) HD-Plug	UR20-PG0.35	8	1469340000
*4) Stripping tool	multi-stripax 6-16	1	9202210000
*5) Pressing tool	PWZ-UR20-HD	1	1525820000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE *1)	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS *1)	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS *2)	10	1429430000
Replacement parts			
Electronics module	UR20-EM-1315720000-SP	1	1347320000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315720000-SP	5	1559750000

Note

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

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

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8AI-I-PLC-INT

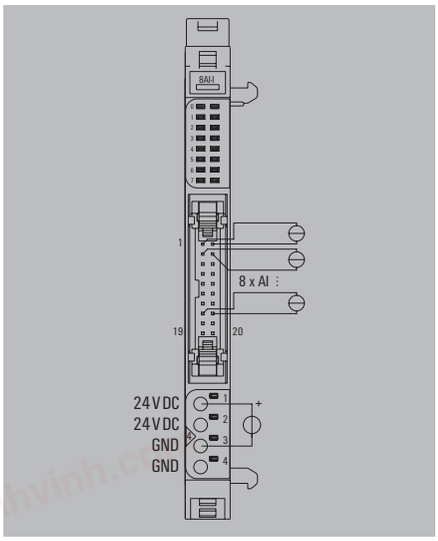
- 8 analogue inputs
- Rapid cabling with flat ribbon cable
- 0/4 to 20 mA with 0.1 % accuracy with a 16-bit resolution
- Inputs can be parameterised (passive or active operating mode)

UR20-8AI-I-PLC-INT



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

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-1315670000-SP	1	1347250000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315670000-SP	5	1483950000
PLC interface element	RS 16I0 1W H S	1	9445700000
Pre-assembled cable, 1m	PAC-UNIV-HE20-LCH-1M	1	7789306010

Note

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

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

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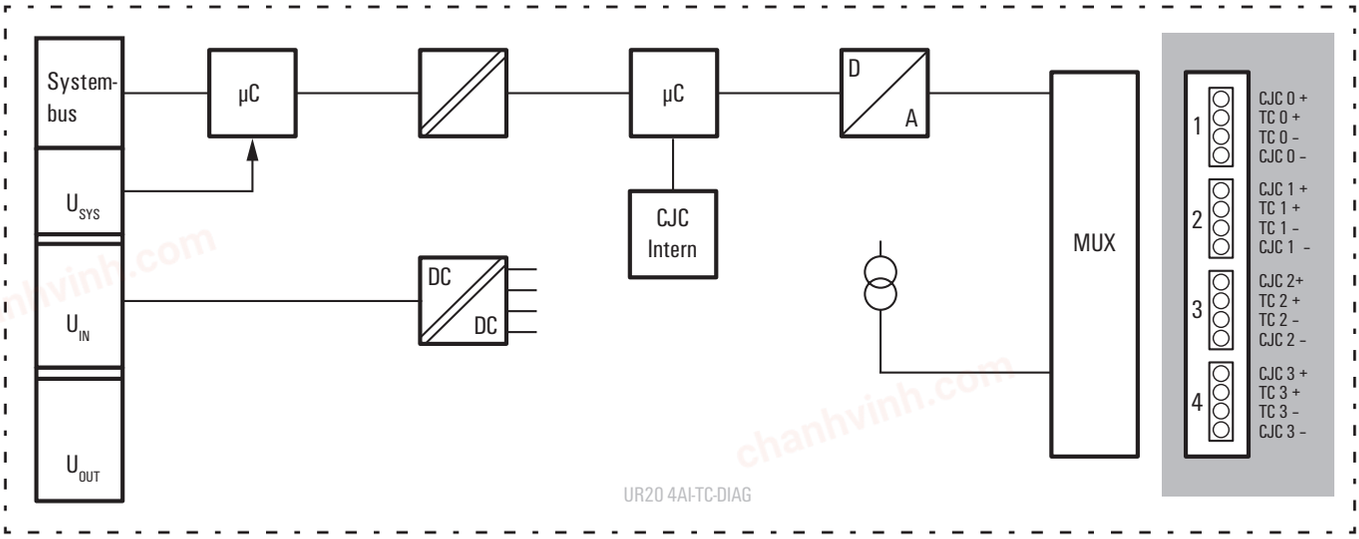
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Temperature modules

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



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4AI-TC-DIAG

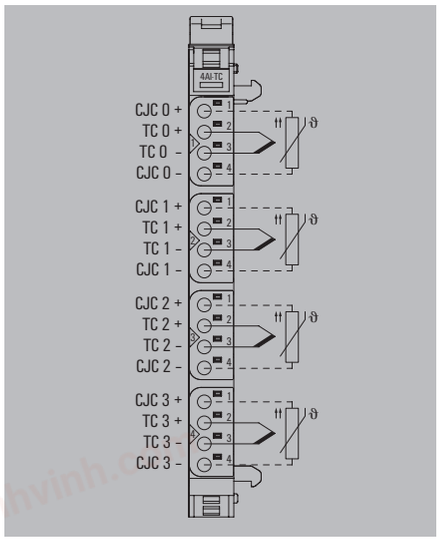
- 4 analogue inputs
- Various TC sensors
- High accuracy of 0.2 % FSR
- 16-bit resolution
- Individual channel diagnosis
- Internal or external cold-junction compensation possible
- Automatic 50 and 60 Hz suppression

UR20-4AI-TC-DIAG



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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	J, K, T, B, N, E, R, S, L, U, C, mV
Resolution	16 Bit
Accuracy	0,1 % FSR + 10 µV
Sensor connection	2-wire
Cold-junction compensation	internal and external (int. accuracy ≤ 3 K)
Temperature coefficient	50 ppm/K
Temperature range	–200...+2315 °C
Conversion time	36...240 ms, adjustable
Internal resistance	> 1 MΩ
Module diagnosis	yes
Individual channel diagnosis	yes
Reverse polarity protection	yes
General data	
Weight	86 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

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-1315710000-SP	1	**1435740000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315710000-SP	5	**1484050000**

Note

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

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

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4AI-RTD-DIAG

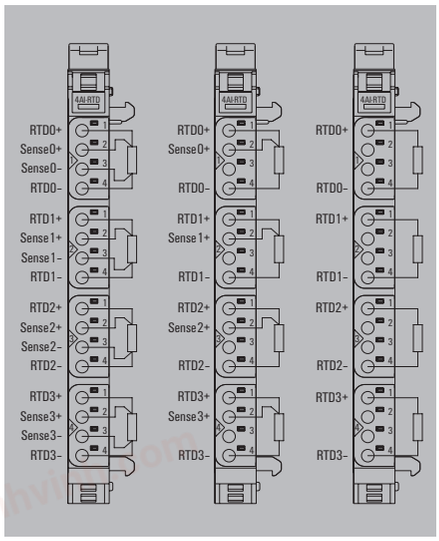
- 16-bit resolution
- Individual channel diagnosis
- Automatic 50 and 60 Hz suppression
- For 2-, 3- and 4-wire RTDs
- High accuracy
- For virtually all common sensors
- Temperature measurement via resistor

UR20-4AI-RTD-DIAG



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 kΩ, 2 kΩ, 4 kΩ
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 kΩ, 2 kΩ, 4 kΩ)
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 MΩ
Reverse polarity protection	yes
Module diagnosis	yes
Individual channel diagnosis	yes
General data	
Weight	91 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

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-1315700000-SP	1	**1347290000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315700000-SP	5	**1484040000**
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

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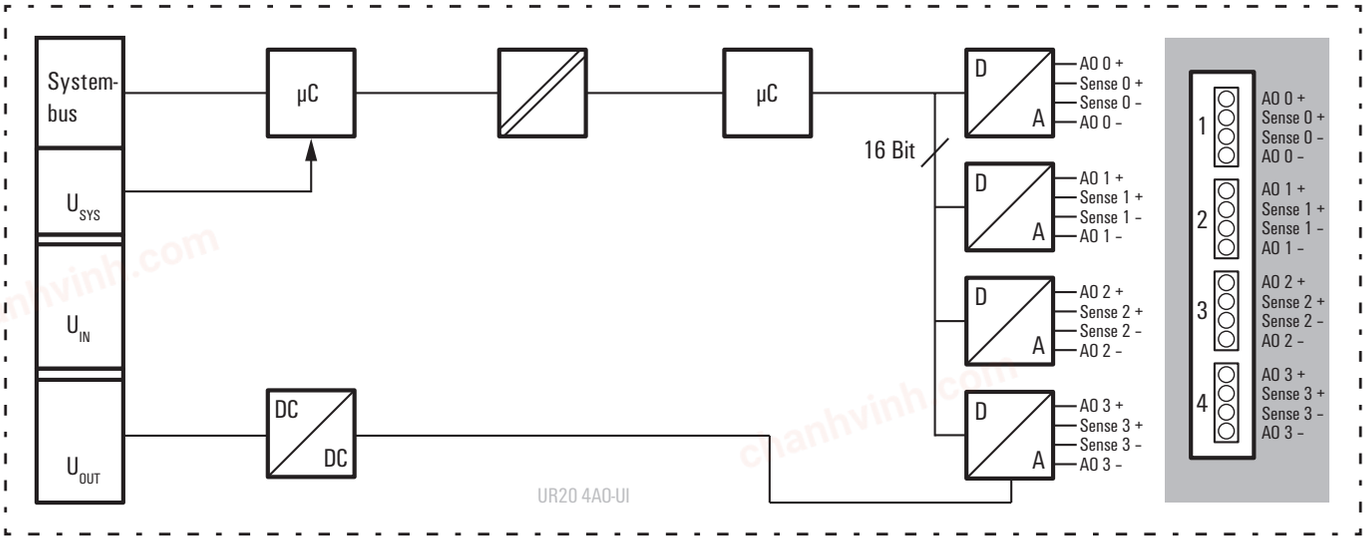
Analogue output module

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

The analogue output module controls up to 4 analogue actuators with +/-10 V, +/-5 V, 0...10 V, 0...5 V, 2...10 V, 1...5 V, 0...20 mA or 4...20 mA with an accuracy of 0.05 % of the measurement range end value. An actuator with 2- or 4-wire technology can be connected to each plug-in connector. The outputs are defined channel by channel using parameterisation. A separate status LED is assigned to each channel.

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

Block diagram UR20-4AO-UI-16



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4AO-UI-16

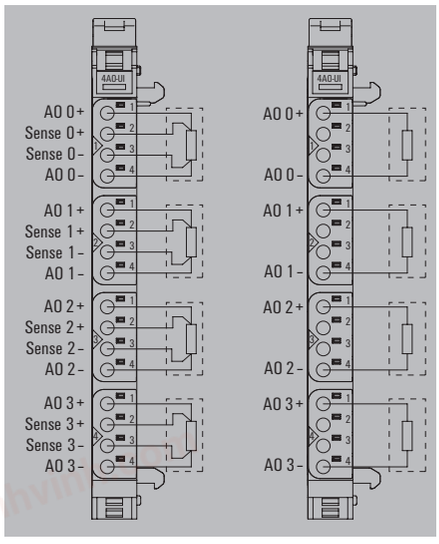
- 4 analogue outputs
- Outputs can be parameterised by channel (voltage, current)
- 16-bit resolution
- 2- and 4-wire connection
- Accuracy typ. 0.05 % FSR
- Replacement values can be set per channel
- Non reactiv
- Short-circuit-proof

UR20-4AO-UI-16



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 kΩ (at > 50 °C ambient temperature max. sum of sensor current = 25 mA)
Load resistance, current output	< 600 Ω
Actuator connection	2-wire (current and voltage; automatic detection), 4-wire (voltage)
Temperature coefficient	20 ppm Voltage / 31 ppm current measurement / °K
Max. error between T min. and T max.	220 ppm FSR
Monotonicity	yes
Crosstalk between the channels	±0,001 % FSR
Repeat accuracy	< 1 mV effectively
Output waviness	max. 0.001 %
Module diagnosis	yes
Replacement values	yes
General data	
Weight	83 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

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-1315680000-SP	1	1347270000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1315680000-SP	5	1484070000
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

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Analogue output module

4AO-UI-16-DIAG

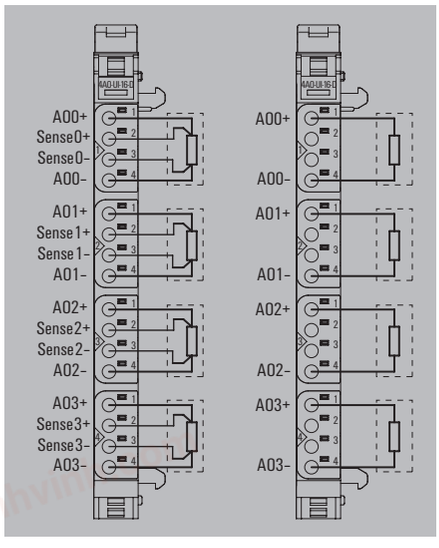
- Advanced diagnosis functions
- 4 analogue outputs
- Outputs can be parameterised by channel (voltage, current)
- 16-bit resolution
- 2- and 4-wire connection
- Accuracy typ. 0.05 % FSR
- Replacement values can be set per channel
- Non reactive
- Short-circuit-proof

UR20-4AO-UI-16-DIAG



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 kΩ (at > 50 °C ambient temperature max. sum of sensor current = 25 mA)
Load resistance, current output	< 600 Ω
Actuator connection	2-wire (current and voltage; automatic detection), 4-wire (voltage)
Temperature coefficient	20 ppm Voltage / 31 ppm current measurement / °K
Max. error between T min. and T max.	220 ppm FSR
Monotonicity	yes
Crosstalk between the channels	±0,001 % FSR
Repeat accuracy	< 1 mV effectively
Output waviness	max. 0.001 %
Module diagnosis	yes
Individual channel diagnosis	yes
Replacement values	yes
General data	
Weight	98 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

Module variants	Type	Qty.	Order No.
Analogue output module, 4 channels, 16 Bits, diagnosis functions	UR20-4AO-UI-16 -DIAG	1	**1315730000**

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-1315730000-SP	1	**1347330000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315730000-SP	5	**1518880000**
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

Let's connect.

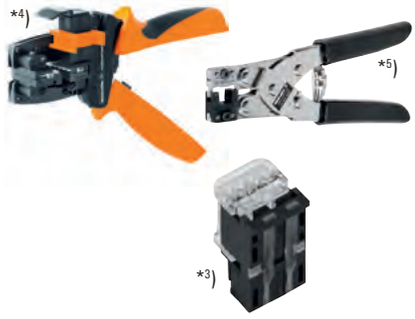
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4AO-UI-16-HD

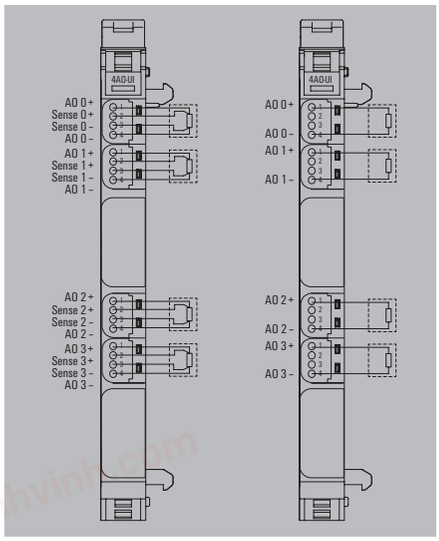
- 4 analogue outputs
- 4 plugs with 4 connections per module
- Outputs can be parameterised by channel (voltage, current)
- 16-bit resolution
- 2- and 4-wire connection
- Accuracy typ. 0.05 % FSR
- Replacement values can be set per channel
- Non reactiv
- Short-circuit-proof

UR20-4AO-UI-16-HD





Note: Please order connector separately



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 kΩ (at > 50 °C ambient temperature max. sum of sensor current = 25 mA)
Load resistance, current output	< 600 Ω
Actuator connection	2-wire (current and voltage; automatic detection), 4-wire (voltage)
Temperature coefficient	20 ppm Voltage / 31 ppm current measurement / °K
Max. error between T min. and T max.	220 ppm FSR
Monotonicity	yes
Crosstalk between the channels	±0.001 % FSR
Repeat accuracy	< 1 mV effectively
Output waviness	max. 0.001 %
Module diagnosis	yes
Individual channel diagnosis	no
Replacement values	yes
General data	
Weight	98 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11.5 mm x 76 mm

Ordering data

Module variants	Type	Qty.	Order No.
Analogue output module, 4 channels, 16 Bits, HD-plug	UR20-4AO-UI-16-HD	1	1510690000

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
*3) HD-Plug	UR20-PG0.35	8	1469340000
*4) Stripping tool	multi-stripax 6-16	1	9202210000
*5) Pressing tool	PWZ-UR20-HD	1	1525820000
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	1341610000
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	1341630000
Thermotransfer version (Material: Polyester)	THM UR20 GE *1)	1	1429910000
Thermotransfer version (Material: Polyester)	THM UR20 WS *1)	1	1429420000
Paper version for Laserprinter	ESO UR20 DIN A4 WS *2)	10	1429430000
Replacement parts			
Electronics module	UR20-EM-1510690000-SP	1	1515470000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1510690000-SP	5	1531830000
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

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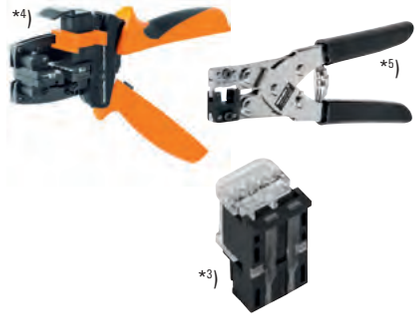
Analogue output module

4AO-UI-16-DIAG-HD

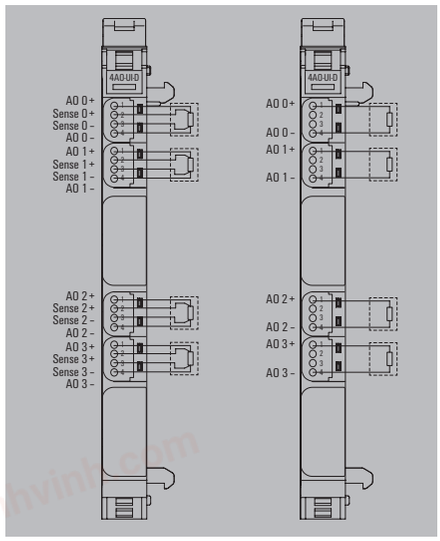
- 4 analogue outputs
- Advanced diagnosis functions
- Outputs can be parameterised by channel (voltage, current)
- 16-bit resolution
- 2- and 4-wire connection
- Accuracy typ. 0.05 % FSR
- Replacement values can be set per channel
- Non reactive
- Short-circuit-proof

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





Note: Please order connector separately



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Galvanic isolation	yes, 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 kΩ (at > 50 °C ambient temperature max. sum of sensor current = 25 mA)
Load resistance, current output	< 600 Ω
Actuator connection	2-wire (current and voltage; automatic detection), 4-wire (voltage)
Temperature coefficient	20 ppm Voltage / 31 ppm current measurement / °K
Max. error between T min. and T max.	220 ppm FSR
Monotonicity	yes
Crosstalk between the channels	±0.001 % FSR 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 lever128 mm) x 11.5 mm x 76 mm

Ordering data

Module variants	Type	Qty.	Order No.
Analogue output module, 4 channels, 16 Bits, diagnosis functions, HD-plug	UR20-4AO-UI-16-DIAG-HD	1	**1506930000**

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**
*3) HD-Plug	UR20-PG0.35	8	**1469340000**
*4) Stripping tool	multi-stripax 6-16	1	**9202210000**
*5) Pressing tool	PWZ-UR20-HD	1	**1525820000**
Module marker for custom printing	DEK 5/8-11.5 MC SDR	100	**1341610000**
Module marker for neutral	DEK 5/8-11.5 MC NE WS	500	**1341630000**
Thermotransfer version (Material: Polyester)	THM UR20 GE *1)	1	**1429910000**
Thermotransfer version (Material: Polyester)	THM UR20 WS *1)	1	**1429420000**
Paper version for Laserprinter	ESO UR20 DIN A4 WS *2)	10	**1429430000**
Replacement parts			
Electronics module	UR20-EM-1506930000-S	1	**1515480000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1506930000-SP	5	**1531810000**

Note

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

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

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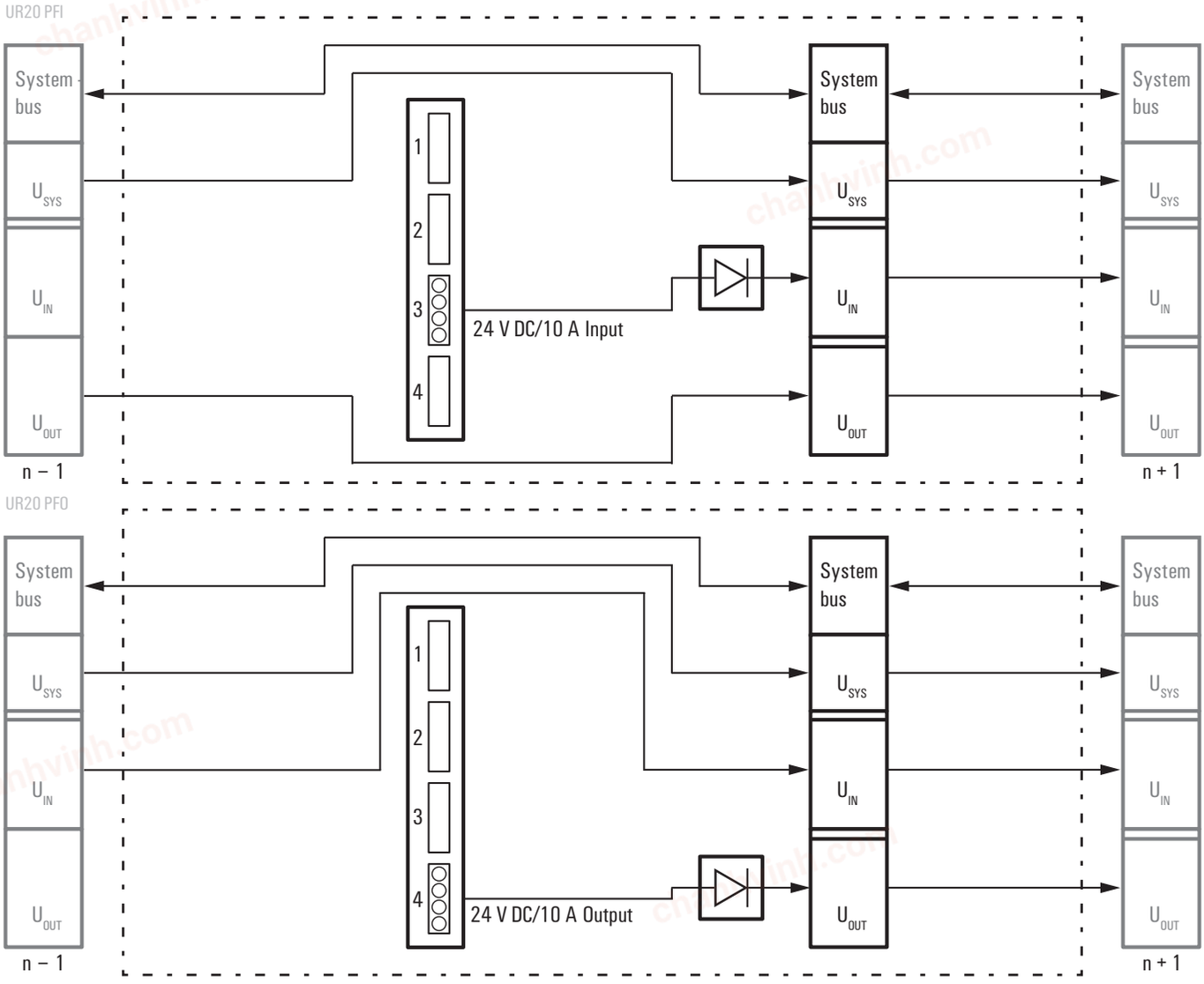
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Power-feed modules

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

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

Block diagram UR20-PF-I and UR20-PF-O



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PF-I

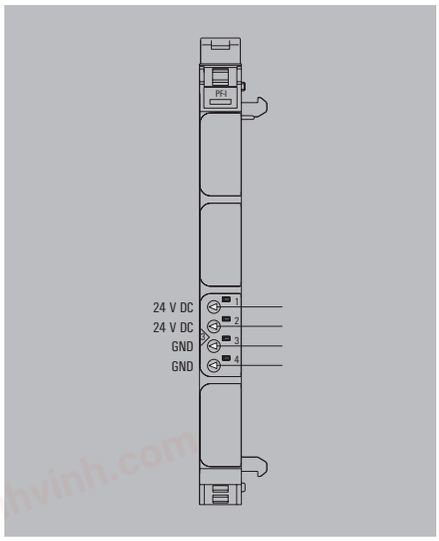
- Power supply in input current path
- Power supply current 10 A
- Integrated diagnosis display

UR20-PF-I



Technical data

Supply	
Voltage supply for inputs	24 V DC +20 % / –15 %
Maximum feed current for input modules	10 A
Current consumption (I_{IN} in the respective power segment)	10 mA
General data	
Weight	76 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

Module variants	Type	Qty.	Order No.
Power supply module	UR20-PF-I	1	**1334710000**

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-1334710000-SP	1	**1347380000**
Basic module	UR20-BM-PF-I-SP	5	**1350940000**
Plug-in connector unit	UR20-PK-1334710000-SP	5	**1346460000**
Note			

*1) 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

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PF-O

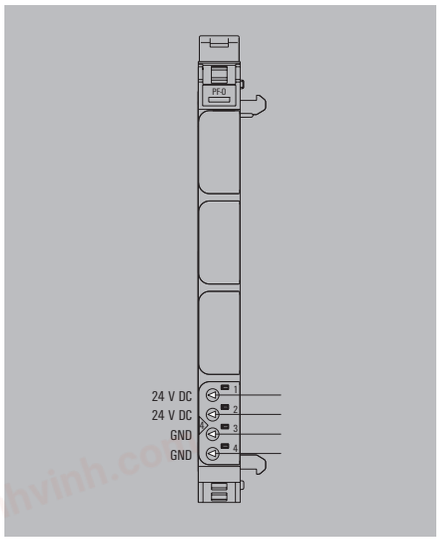
- Power supply in output current path
- Power supply current 10 A
- Integrated diagnosis display

UR20-PF-O



Technical data

Supply	
Voltage supply for outputs	24 V DC +20 % / –15 %
Maximum feed current for output modules	10 A
Current consumption (I_{OUT} in the respective power segment)	10 mA
General data	
Weight	76 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

Module variants	Type	Qty.	Order No.
Power supply module	UR20-PF-O	1	1334740000

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-1334740000-SP	1	1347420000
Basic module	UR20-BM-PF-O-SP	5	1350950000
Plug-in connector unit	UR20-PK-1334740000-SP	5	1346480000
Note			

*1) 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

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Modules for functional safety

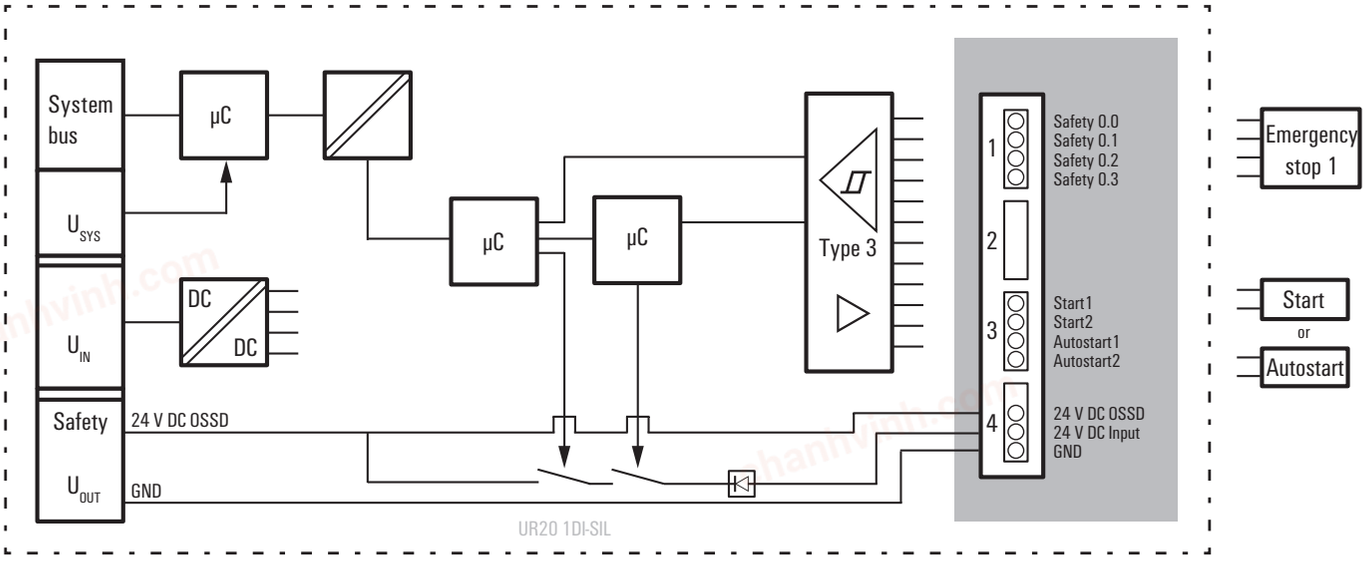
SIL 3; OSSD output; wire breakage and short-circuit detection

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. The safety 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.
Safety 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



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PF-O-1DI-SIL

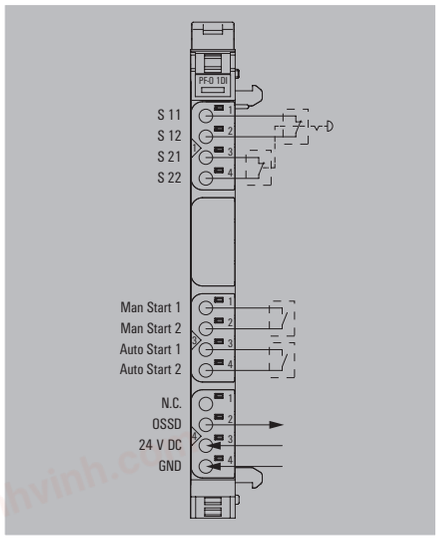
- SIL 3 safety standard in accordance with IEC 62061 and DIN EN ISO 13849-1, category 4, PL e
- Connection for an emergency stop circuit
- OSSD output reports status to control unit
- Pulsed input circuit for wire breakage and short-circuit detection
- Restart: manual or using autostart

UR20-PF-O-1DI-SIL



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Safety-related data	
Achievable safety standard	IEC 61508 SIL 3 and DIN EN ISO 13849-1:2008 PL e
Level of diagnostic coverage	96.64 %
$MTTF_d$	> 100 years (PFH = 6.27 * 10^{-9} 1/h)
SFF	98.58 %
HFT	1
Supply	
Supply voltage for system and inputs	24 V DC +20 % / -15 % via the system bus
Supply voltage for outputs	24 V DC +20 % / -15 %
Maximum feed current for input modules	8 A
Current consumption (internal)	35 mA
Digital inputs	
Wire breakage detection	yes
Short-circuit detection	yes
General data	
Weight	80 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

*) 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)	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-1335030000-SP	1	**1347520000**
Basic module	UR20-BM-SIL-SP	5	**1350970000**
Plug-in connector unit	UR20-PK-1335030000-SP	5	**1346560000**
Note	*1) 1 roll = 1000 label = 1 Qty. *2) 1 sheet = 60 label = 1 Qty.		

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

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PF-O-2DI-SIL

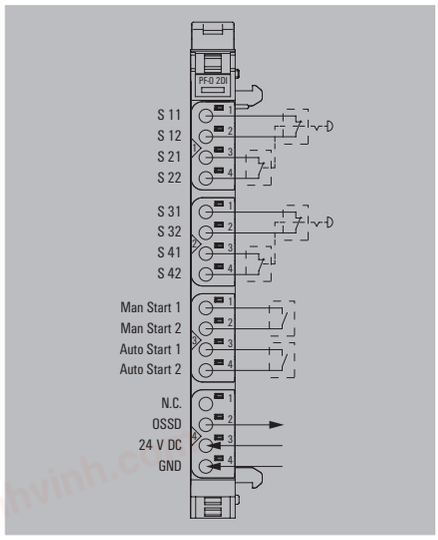
- SIL 3 safety standard in accordance with IEC 62061 and DIN EN ISO 13849-1, category 4, PL e
- Connection for an emergency stop circuit
- OSSD output reports status to control unit
- Pulsed input circuit for wire breakage and short-circuit detection
- Restart: manual or using autostart

UR20-PF-O-2DI-SIL



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Safety-related data	
Achievable safety standard	IEC 61508 SIL 3 and DIN EN ISO 13849-1:2008 PL e
Level of diagnostic coverage	96.64 %
$MTTF_d$	> 100 years (PFH = 6.27 * 10^{-9} 1/h)
SFF	98.58 %
HFT	1
Supply	
Supply voltage for system and inputs	24 V DC +20 % / -15 % via the system bus
Supply voltage for outputs	24 V DC +20 % / -15 %
Maximum feed current for input modules	8 A
Current consumption (internal)	35 mA
Digital inputs	
Wire breakage detection	yes
Short-circuit detection	yes
General data	
Weight	82 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

*) 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)	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-1335050000-SP	1	**1347540000**
Basic module	UR20-BM-SIL-SP	5	**1350970000**
Plug-in connector unit	UR20-PK-1335050000-SP	5	**1346570000**
Note			

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

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

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PF-O-2DI-DELAY-SIL

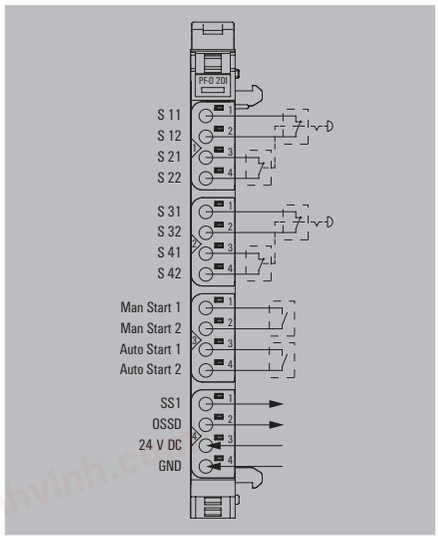
- SIL 3 safety standard in accordance with IEC 62061 and DIN EN ISO 13849-1, category 4, PL e
- Switch-off after adjustable delay
- Connection for an emergency stop circuit
- OSSD output reports status to control unit
- Pulsed input circuit for wire breakage and short-circuit detection
- Restart: manual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

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



Technical data

System data	
Interface	u-remote system bus
Transmission rate of system bus	48 Mbit/s
Safety-related data	
Achievable safety standard	IEC 61508 SIL 3 and DIN EN ISO 13849-1:2008 PL e
Level of diagnostic coverage	96.64 %
$MTTF_d$	> 100 years (PFH = 6.27 * 10^{-9} 1/h)
SFF	98.58 %
HFT	1
Supply	
Supply voltage for system and inputs	24 V DC +20 % / -15 % via the system bus
Supply voltage for outputs	24 V DC +20 % / -15 %
Maximum feed current for input modules	8 A
Current consumption (internal)	35 mA
Digital inputs	
Wire breakage detection	yes
Short-circuit detection	yes
General data	
Weight	84 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

*) 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)	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-1335040000-SP	1	**1347530000**
Basic module	UR20-BM-SIL-SP	5	**1350970000**
Plug-in connector unit	UR20-PK-1335040000-SP	5	**1484100000**

Note

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

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

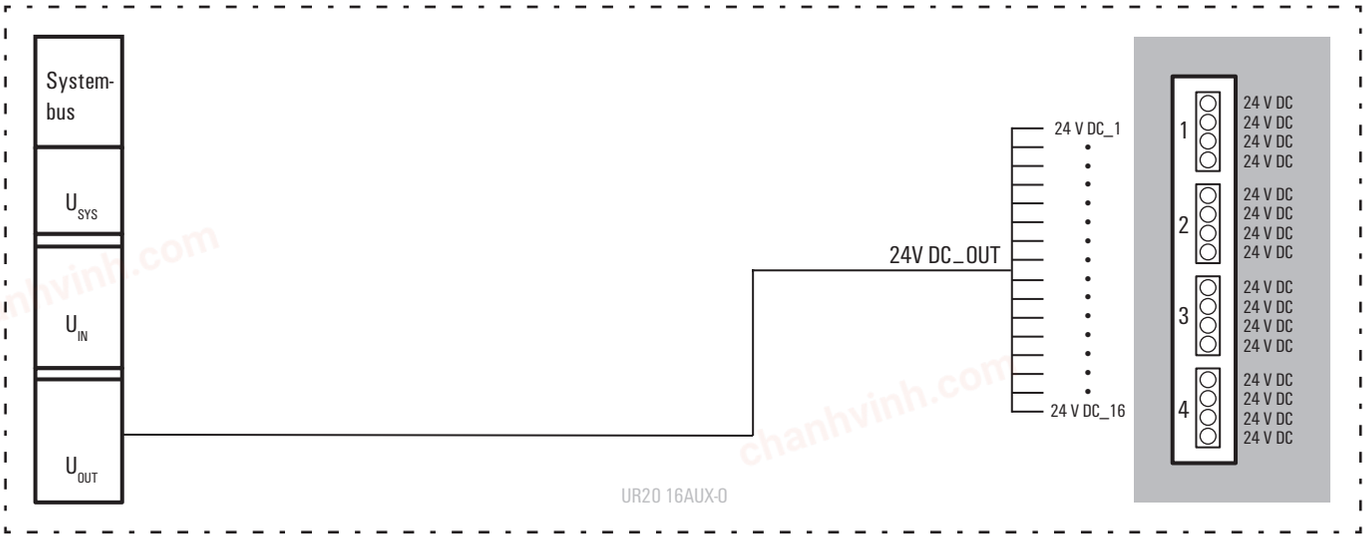
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Accessories
Potential distribution modules; system accessories

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

UR20-16AUX-O block diagram example



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AUX

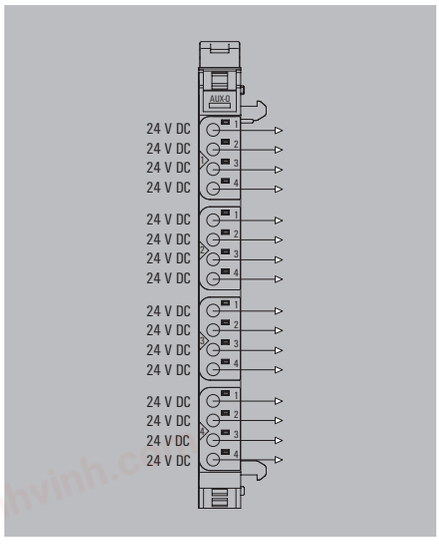
- Distribution of the various potentials
- Actuator and sensor supply
- 16 “PUSH IN” potential contacts

UR20-16AUX



Technical data

Supply	
Voltage supply	24 V DC +20 % / –15 % via Input- or output path / FE
General data	
Weight	84 g
Dimensions (H/W/D)	120 mm (with catch lever128 mm) x 11,5 mm x 76 mm



Ordering data

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

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
USB cable (USB A to Micro USB)	IE-C6FP8LE0015M40M40-E	1	1487980000
Replacement parts			
Electronics module	UR20-EM-1334770000-SP	1	1347450000
	UR20-EM-1334780000-SP	1	1347470000
	UR20-EM-1334790000-SP	1	1347480000
	UR20-EM-1334800000-SP	1	1347490000
	UR20-EM-1334810000-SP	1	1347500000
Basic module	UR20-BM-SP	5	1350930000
Plug-in connector unit	UR20-PK-1334770000-SP	5	1346450000
	UR20-PK-1334790000-SP	5	1346490000
	UR20-PK-1334800000-SP	5	1346470000
	UR20-PK-1334780000-SP	5	1484080000
	UR20-PK-1334810000-SP	5	1484090000

Note

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

Product standard	IEC 61131-2
EMC	EN 61000
ATEX	EN 60079
UL	UL 508
MSIP	MSIP-REM-WMG-1334770000
MSIP	MSIP-REM-WMG-1334780000
MSIP	MSIP-REM-WMG-1334790000
MSIP	MSIP-REM-WMG-1334800000
MSIP	MSIP-REM-WMG-1334810000

16AUX-I Let’s connect.

16AUX-O Let’s connect.

16AUX-FE Let’s connect.

16AUX-GND-I Let’s connect.

16AUX GND-O Let’s connect.

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Accessories

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 lever128 mm) x 11,5 mm x 76 mm

Ordering data

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

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-1315770000-SP	1	**1347370000**
Basic module	UR20-BM-SP	5	**1350930000**
Plug-in connector unit	UR20-PK-1315770000-SP	5	**1346510000**
Note	*1) 1 roll = 1000 label = 1 Qty. *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	Type	Qty.	Order No.
Termination kit	UR20-EBK-ACC	5	**1346610000**

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Individual components

It goes without saying that Weidmüller also allows you to swap defective parts. The three-part modules can therefore be ordered as individual components.



Ordering data spare parts

Product	Order No.
UR20-FBC-PB-DP	1334870000
UR20-FBC-PN-IRT	1334880000
UR20-FBC-EC	1334910000
UR20-FBC-MOD	1334930000
UR20-FBC-EIP	1334920000
UR20-4DI-P	1315170000
UR20-8DI-P-2W	1315180000
UR20-8DI-P-3W	1394400000
UR20-8DI-P-3W-HD	1394400000
UR20-16DI-P	1315200000
UR20-16DI-P-PLC-INT	1315210000
UR20-2DI-P-TS	1460140000
UR20-4DI-P-TS	1460150000
UR20-4DO-P	1315220000
UR20-4DO-P-2A	1315230000
UR20-4DO-PN-2A	1394420000
UR20-8DO-P	1315240000
UR20-8DO-P-3W-HD	1509830000
UR20-16DO-P	1315250000
UR20-16DO-P-PLC-INT	1315270000
UR20-4RO-SSR-255	1315540000
UR20-4RO-CO-255	1315550000
UR20-1CNT-100-1DO	1315570000
UR20-2CNT-100	1315590000
UR20-2FCNT-100	1508080000
UR20-2PWM-PN-0.5A	1315600000
UR20-2PWM-PN-2A	1315610000
UR20-4AI-UI-16	1315620000
UR20-4AI-UI-16-DIAG	1315690000
UR20-4AI-UI-16-HD	1506920000
UR20-4AI-UI-16-DIAG-HD	1506910000
UR20-4AI-UI-12	1394390000
UR20-8AI-I-16-HD	1315650000
UR20-8AI-I-16-DIAG-HD	1315720000
UR20-8AI-I-PLC-INT	1315670000
UR20-4AI-TC-DIAG	1315710000
UR20-4AI-RTD-DIAG	1315700000
UR20-4AO-UI-16	1315680000
UR20-4AO-UI-16 -DIAG	1315730000
UR20-4AO-UI-16-HD	1510690000
UR20-4AO-UI-16-DIAG-HD	1506930000
UR20-PF-I	1334710000
UR20-PF-O	1334740000
UR20-PF-O-1DI-SIL	1335030000
UR20-PF-O-2DI-SIL	1335050000
UR20-PF-O-2DI-DELAY-SIL	1335040000
UR20-16AUX-I	1334770000
UR20-16AUX-O	1334780000
UR20-16AUX-FE	1334790000
UR20-16AUX-GND-I	1334800000
UR20-16AUX-GND-O	1334810000
UR20-ES	1315770000
Note	

Product	Order No.
UR20-PK-1334870000-SP	1361520000
UR20-PK-1334880000-SP	1484120000
UR20-PK-1334910000-SP	1484440000
UR20-PK-1334930000-SP	1484130000
UR20-PK-1334920000-SP	1484120000
UR20-PK-1315170000-SP	1346440000
UR20-PK-1315180000-SP	1346430000
UR20-PK-1394400000-SP	1411430000
UR20-PK-1315190000-SP	1518800000
UR20-PK-1315200000-SP	1346400000
UR20-PK-1315210000-SP	1346590000
UR20-PK-1460140000-SP	1484110000
UR20-PK-1460150000-SP	1484430000
UR20-PK-1315220000-SP	1483960000
UR20-PK-1315230000-SP	1483970000
UR20-PK-1394420000-SP	1483980000
UR20-PK-1315240000-SP	1346410000
UR20-PK-1509830000-SP	1559720000
UR20-PK-1315250000-SP	1483990000
UR20-PK-1315270000-SP	1483940000
UR20-PK-1315540000-SP	1484000000
UR20-PK-1315550000-SP	1346500000
UR20-PK-1315570000-SP	1346520000
UR20-PK-1315590000-SP	1346540000
UR20-PK-1508080000-SP	1518840000
UR20-PK-1315600000-SP	1484010000
UR20-PK-1315610000-SP	1346550000
UR20-PK-1315620000-SP	1484020000
UR20-PK-1315690000-SP	1518870000
UR20-PK-1506920000-SP	1518830000
UR20-PK-1506910000-SP	1518820000
UR20-PK-1394390000-SP	1484030000
UR20-PK-1315650000-SP	1347240000
UR20-PK-1315720000-SP	1559750000
UR20-PK-1315670000-SP	1483950000
UR20-PK-1315710000-SP	1484050000
UR20-PK-1315700000-SP	1484040000
UR20-PK-1315680000-SP	1484070000
UR20-PK-1315730000-SP	1518880000
UR20-PK-1510690000-SP	1531830000
UR20-PK-1506930000-SP	1531810000
UR20-PK-1334710000-SP	1346460000
UR20-PK-1334740000-SP	1346480000
UR20-PK-1335030000-SP	1346560000
UR20-PK-1335050000-SP	1346570000
UR20-PK-1335040000-SP	1484100000
UR20-PK-1334770000-SP	1346450000
UR20-PK-1334780000-SP	1484080000
UR20-PK-1334790000-SP	1346490000
UR20-PK-1334800000-SP	1346470000
UR20-PK-1334810000-SP	1484090000
UR20-PK-1315770000-SP	1346510000
All Plug-in connector units: Qty. = 5	

Product	Order No.
UR20-EM-1315170000-SP	1346640000
UR20-EM-1315080000-SP	1346650000
UR20-EM-1394400000-SP	1434220000
UR20-EM-1315190000-SP	1346670000
UR20-EM-1315200000-SP	1346680000
UR20-EM-1315210000-SP	1346690000
UR20-EM-1460140000-SP	1463690000
UR20-EM-1460150000-SP	1463680000
UR20-EM-1315220000-SP	1346700000
UR20-EM-1315230000-SP	1346710000
UR20-EM-1394420000-SP	1480950000
UR20-EM-1315240000-SP	1346720000
UR20-EM-1509830000-SP	1515450000
UR20-EM-1315250000-SP	1346730000
UR20-EM-1315270000-SP	1346740000
UR20-EM-1315540000-SP	1347120000
UR20-EM-1315550000-SP	1347130000
UR20-EM-1315570000-SP	1347140000
UR20-EM-1315590000-SP	1347150000
UR20-EM-1508080000-SP	1515440000
UR20-EM-1315600000-SP	1347180000
UR20-EM-1315610000-SP	1347190000
UR20-EM-1315620000-SP	1347200000
UR20-EM-1315690000-SP	1347280000
UR20-EM-1506920000-SP	1515420000
UR20-EM-1506910000-SP	1515430000
UR20-EM-1394390000-SP	1434230000
UR20-EM-1315650000-SP	1515450000
UR20-EM-1315720000-SP	1347320000
UR20-EM-1315670000-SP	1347250000
UR20-EM-1315710000-SP	1435740000
UR20-EM-1315700000-SP	1347290000
UR20-EM-1315680000-SP	1347270000
UR20-EM-1315730000-SP	1347330000
UR20-EM-1510690000-SP	1515470000
UR20-EM-1506930000-SP	1515480000
UR20-EM-1334710000-SP	1347370000
UR20-EM-1334740000-SP	1347420000
UR20-EM-1335030000-SP	1347520000
UR20-EM-1335050000-SP	1347540000
UR20-EM-1335040000-SP	1347530000
UR20-EM-1334770000-SP	1347450000
UR20-EM-1334780000-SP	1347470000
UR20-EM-1334790000-SP	1347480000
UR20-EM-1334800000-SP	1347490000
UR20-EM-1334810000-SP	1347500000
UR20-EM-1315770000-SP	1347370000
All electronic modules: Qty. = 1	

Product	Order No.
UR20-BM-SP	1350930000
UR20-BM-SP	1350930000
UR20-BM-SP	1350930000

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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.

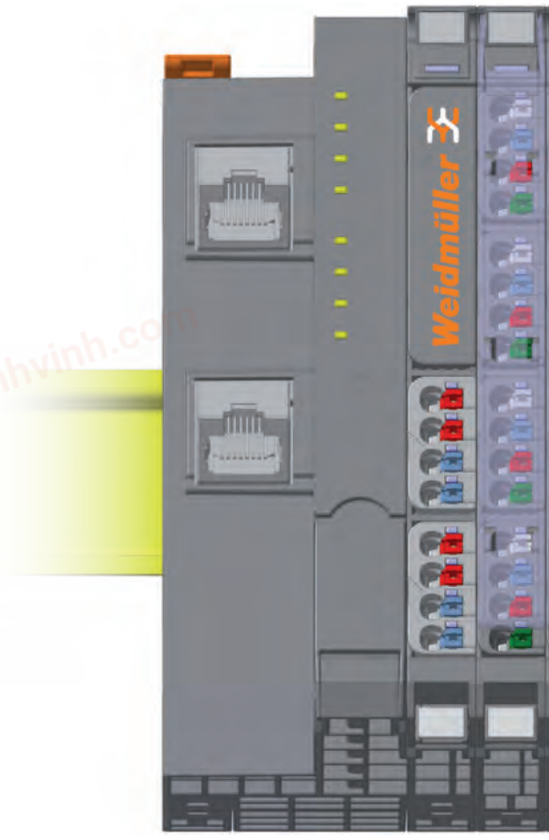
At the bottom right-hand side of this page, you will find assistance for supplying the current paths.

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

2. What signals do you want to process?

Digital inputs	Order No.	Page
UR20-4DI-P	**1315170000**	A.19
UR20-8DI-P-2W	**1315180000**	A.20
UR20-8DI-P-3W	**1394400000**	A.21
UR20-8DI-P-3W-HD	**1315190000**	A.22
UR20-16DI-P	**1315200000**	A.23
UR20-16DI-P-PLC-INT	**1315210000**	A.24
UR20-2DI-P-TS	**1460140000**	A.25
UR20-4DI-P-TS	**1460150000**	A.26
UR20-1CNT-100-1DO	**1315570000**	A.39
UR20-2CNT-100	**1315590000**	A.40
UR20-2FCNT-100	**1508080000**	A.41
Digital outputs		**Page**
UR20-4DO-P	**1315220000**	A.29
UR20-4DO-2A	**1315230000**	A.30
UR20-4DO-PN-2A	**1394420000**	A.31
UR20-8DO-P	**1315240000**	A.32
UR20-8DO-P-3W-HD	**1509830000**	A.33
UR20-16DO-P	**1315250000**	A.34
UR20-16DO-P-PLC-INT	**1315270000**	A.35
UR20-4RO-SSR-255	**1315540000**	A.36
UR20-4RO-CO-255	**1315550000**	A.37
UR20-2PWM-PN-0.5A	**1315600000**	A.43
UR20-2PWM-PN-2A	**1315610000**	A.44
Analogue inputs		**Page**
UR20-4AI-UI-16	**1315620000**	A.47
UR20-4AI-UI-16-DIAG	**1315690000**	A.48
UR20-4AI-UI-16-HD	**1506920000**	A.49
UR20-4AI-UI-16-DIAG-HD	**1506910000**	A.50
UR20-4AI-UI-12	**1394390000**	A.51
UR20-8AI-I-16-HD	**1315650000**	A.52
UR20-8AI-I-16-HD-DIAG	**1315720000**	A.53
UR20-8AI-I-PLC-INT	**1315670000**	A.54
UR20-4AI-RTD-DIAG	**1315700000**	A.57
UR20-4AI-TC-DIAG	**1315710000**	A.58
Analogue outputs		**Page**
UR20-4AO-UI-16	**1315680000**	A.61
UR20-4AO-UI-16-DIAG	**1315730000**	A.62
UR20-4AO-UI-16-HD	**1510690000**	A.63
UR20-4AO-UI-16-HD-DIAG	**1506930000**	A.64
Further functional modules		**Page**
UR20-PF-O-1DI-SIL	**1335030000**	A.71
UR20-PF-O-2DI-SIL	**1335050000**	A.72
UR20-PF-O-2DI-DELAY-SIL	**1335040000**	A.73



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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.67
UR20-PF-O	**1334740000**	A.68

4. AUX and accessories

AUX	Order No.	Page
UR20-16AUX-I	**1334770000**	A.75
UR20-16AUX-O	**1334780000**	A.75
UR20-16AUX-FE	**1334790000**	A.75
UR20-16AUX-GND-I	**1334800000**	A.75
UR20-16AUX-GND-O	**1334810000**	A.75
Accessories		**Page**
End bracket	**1346610000**	A.75
Swivel marker	**1339920000**	A.75
Connection marker for pusher custom printing	**1323700000**	A.75
Connection marker for pusher neutral	**1323710000**	A.75
Module marker for custom printing	**1341610000**	A.75
Module marker for neutral	**1341630000**	A.75
Empty module	**1315770000**	A.76
Thermotransfer version (Material: Polyester)	**1429910000**	A.75
Thermotransfer version (Material: Polyester)	**1429420000**	A.75
Paper version for Laserprinter	**1429430000**	A.75



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

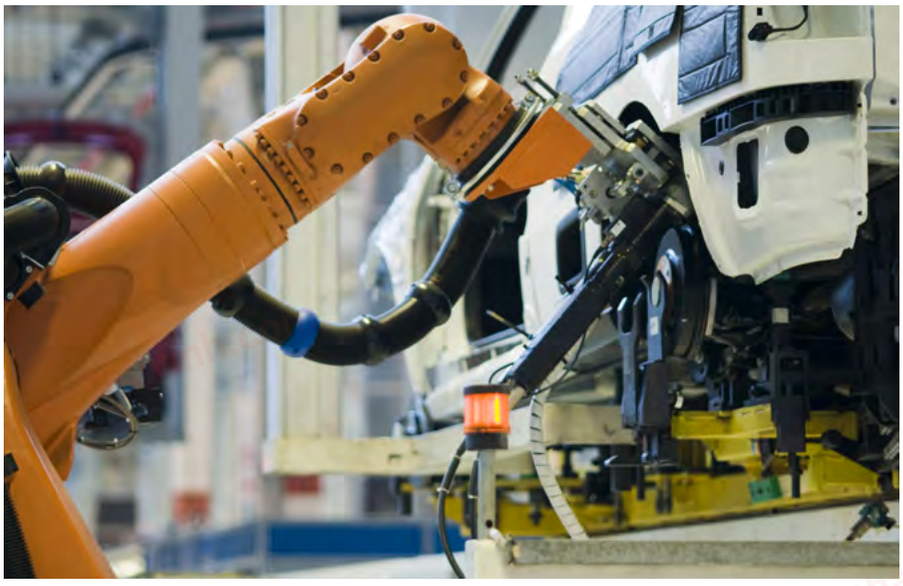
Module no.	Module type	Current requirement of connected devices (A)	Simultaneity factor	Current following calculation of simultaneity factor per module	Current requirement of system – cumulative	Current requirement of system – cumulative with UR20-PF-O
1st module	UR20-8DO-P	0.5	0.5	0.25	0.25	0.25
2nd 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!

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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.



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IP 67

IP 67	Introduction	B.2
	Quick select – SAI Active	B.6
	SAI Active Universal – Overview	B.8
	SAI Active Universal – PROFIBUS-DP	B.10
	SAI Active Universal – CANopen	B.14
	SAI Active Universal – DeviceNet™	B.18
	SAI Active Universal Pro – Overview	B.22
	SAI Active Universal Pro	B.24
	Accessories for sensor cables	B.34

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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

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, ...)

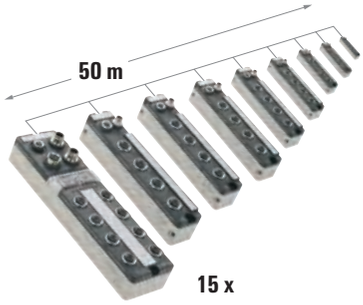


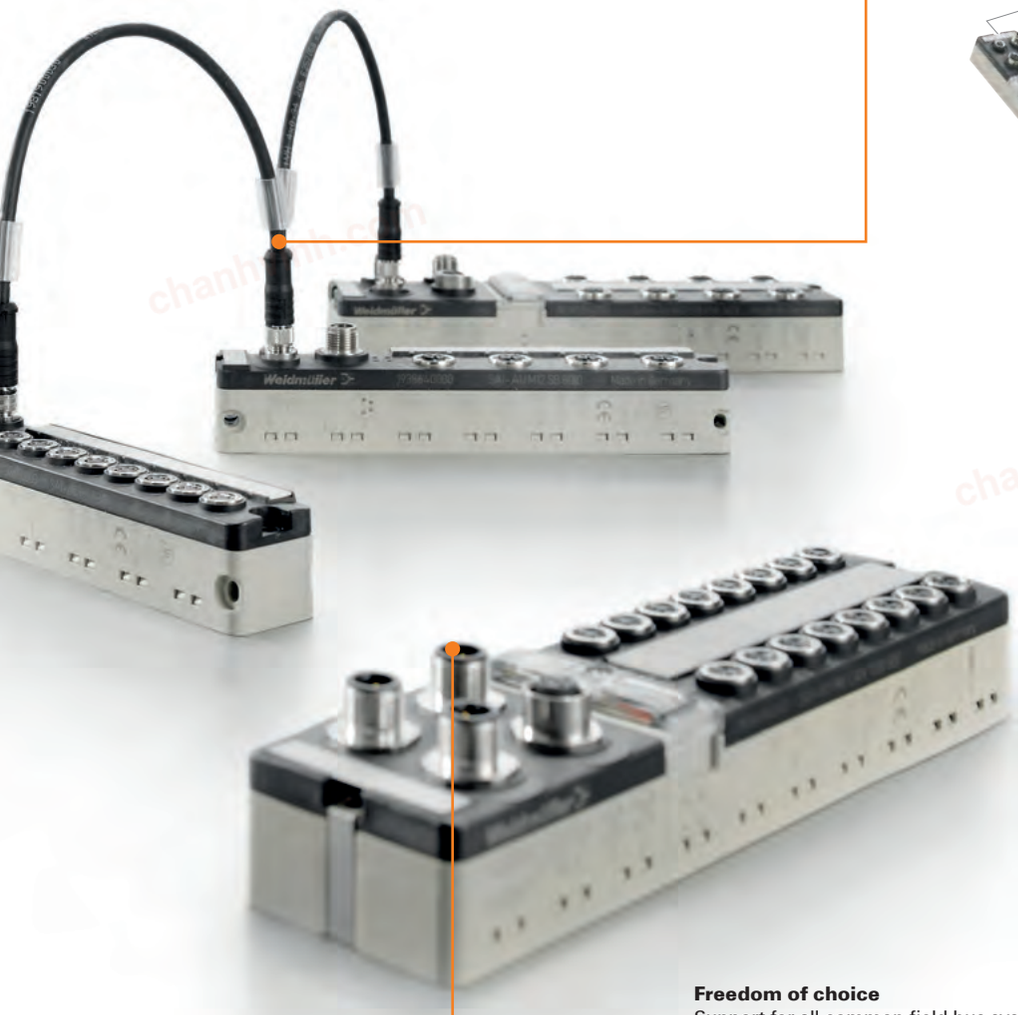
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Universal adaptation
The analogue inputs and outputs are freely configurable in the different analogue value ranges.



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.

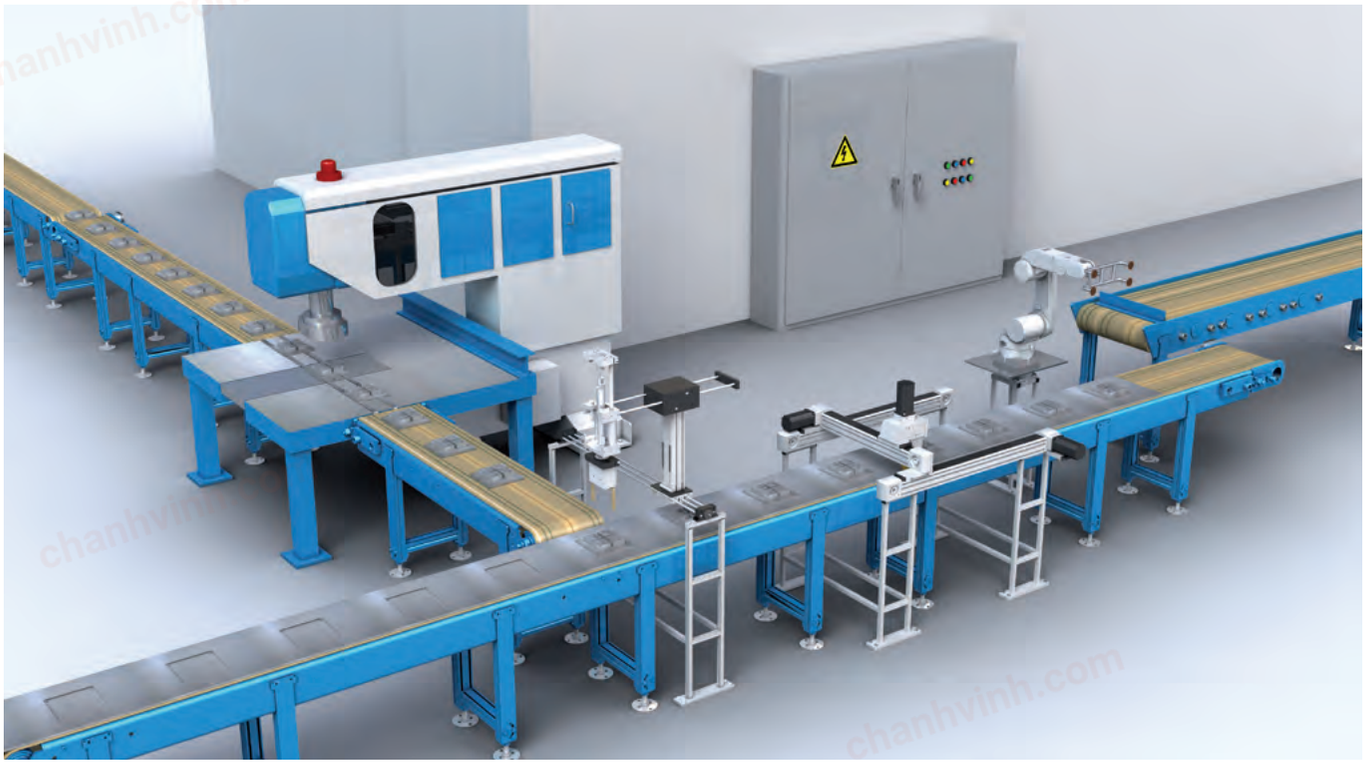


Freedom of choice
Support for all common field bus systems such as PROFIBUS, DeviceNet™, CANopen, RS232.

PROFIBUS PROCESS FIELD BUS
DeviceNet™
CANopen

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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.



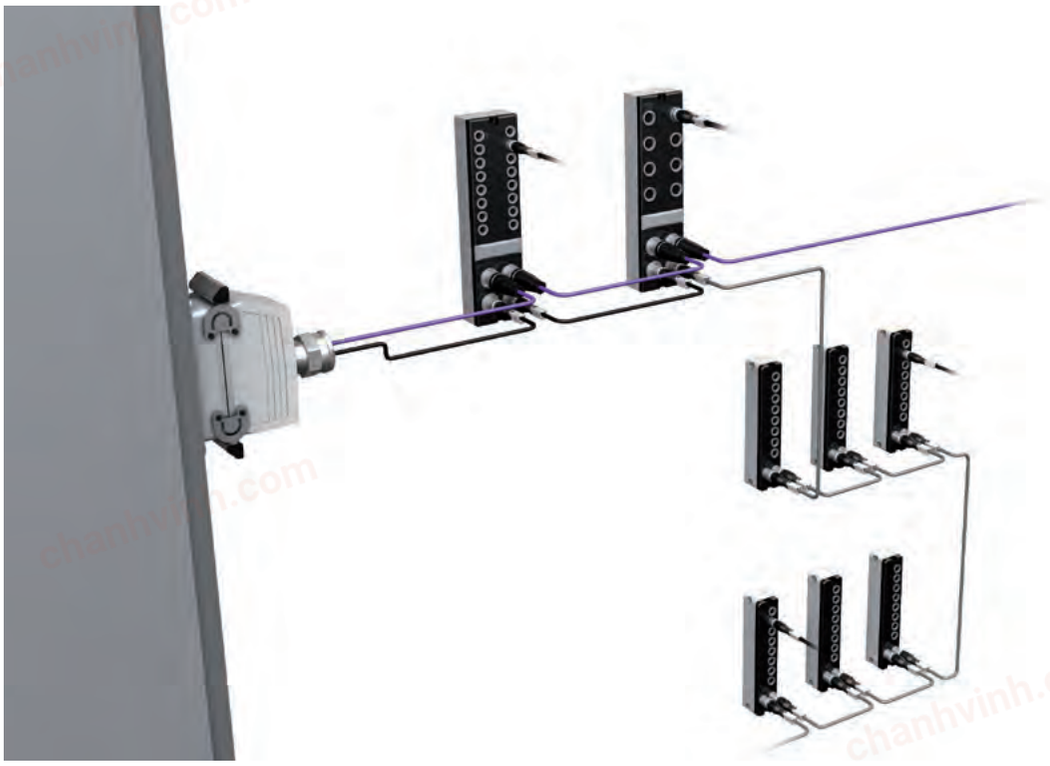
Complex production processes mean that you have to co-ordinate lots of individual processing stages. Numerous sensors and actuators throughout the production facility are connected with the central control system. And in many cases, you have to bridge huge distances and process a large number of different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

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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

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Quick select – SAI Active

Selection table

Order No.	Product designation	Connection system		Communication								
		M8	M12	PROFIBUS DP	CANopen	DeviceNet™	Modbus ASCII (RS 232 / USB)	Modbus TCP	EtherNet/IP	Subbus	Wireless	
	SAI Active Universal											
1906550000	SAI-AU M8 PB 16DI	X		X								
1906640000	SAI-AU M8 PB 16DI/8DO	X		X								
1975450000	SAI-AU M8 PB 8DI8DO 2A	X		X								
1890020000	SAI-AU M12 PB 16DI		X	X								
1890010000	SAI-AU M12 PB 16DI/8DO		X	X								
1968220000	SAI-AU M12 PB 8DI8DO 2A		X	X								
1890000000	SAI-AU M12 PB AI/AO/DI		X	X								
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											
1024310000	SAI-AU M8 PB GW 16DI	X		X						X		
1938550000	SAI-AU M12 PB GW 16DI		X	X						X		
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		

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	Inputs					Outputs					Special characteristics	Page
	Digital	Analogue	Counter	TC	RTD	Digital	Output current	Analogue	Output range	Supply voltage feed circuits		
	16									2		B.10
	max.. 16, min. 8 (can be configured)					max.. 8, min. 0 (can be configured)	0.5 A			4	- Max. I/O channels = 16	B.10
	8					8	2 A			4	- Max. total current, output = 8 A	B.10
	16									2		B.10
	max. 16, min. 8 (can be configured)					max. 8, min. 0 (can be configured)	0.5 A			1	- Max. I/O channels = 16	B.10
	8					8	2 A			2	- Max. total current, output = 8 A	B.10
	4	4						2	-10...+10 V, 0...+10 V, 0...20 mA, 4...20 mA	2		B.11
	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.24
	16									2		B.24
	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

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SAI Active Universal

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

The SAI Active Universal consists of basic, compact designed variants that include a variety of modules for digital and analogue inputs and outputs. The housing has a sturdy construction in compliance with strict industrial requirements. It is resistant against aggressive materials, vibration, shock, temperature, water and dust.

The high quality connection system uses conventional, standardised M8 and M12 connectors with standards-compliant coding. They ensure a reliable wiring process with less risk of errors. Two M12 connections for the fieldbus allow for a continuous bus installation without any additional T-distributor. The functional earth connection is automatically created when installing on a metallic earthed base.



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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 PROFIBUS-DP, CANopen, 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.

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PROFIBUS-DP
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
8 Digital In / 8 Digital Out
8 Digital In / 8 Digital Out
Note

Type	Qty.	Order No.
SAI-AU M8 PB 16DI	1	**1906550000**
SAI-AU M12 PB 16DI	1	**1890020000**

Type	Qty.	Order No.
SAI-AU M8 PB 16DI/8DO	1	**1906640000**
SAI-AU M12 PB 16DI/8DO	1	**1890010000**
SAI-AU M8 PB 8DI8DO 2A	1	**1975450000**
SAI-AU M12 PB 8DI8DO 2A	1	**1968220000**

Technical data

Connections		
Fieldbus (BUS-IN)	1x M12 plug 5-pole, B-coded	1x M12 plug 5-pole, B-coded
Fieldbus (BUS-OUT)	1x M12 female 5-pole, B-coded	1x M12 female 5-pole, B-coded
Supply voltage (AUX-IN)	1x M12 plug 5-pole, A-coded	2x M12 plug 5-pole, A-coded
Supply voltage (AUX-OUT)	1x M12 female 5-pole, A-coded	
I/O connections	16 x M8 socket 3-pole / 8 x M12 socket 5-pole, A-coded	16 x M8 socket 3-pole / 8 x M12 socket 5-pole, A-coded
Voltage supply		
Operating voltage	24 V (18 V DC ... 30 V DC)	24 V (18 V DC ... 30 V DC)
Contact load	Per PIN max. 4 A	Per PIN max. 4 A
Max. total current module	10 A	10 A
Digital inputs		
Permitted input voltage	-30 V to +30 V (protected against polarity reversal)	-30 V to +30 V (protected against polarity reversal)
Input current, low	< 15 mA in accordance with EN 61131-2 Type 1	< 15 mA in accordance with EN 61131-2 Type 1
Input current, high	2 mA to 15 mA in accordance with EN 61131-2 Type 1	2 mA to 15 mA in accordance with EN 61131-2 Type 1
Input current, low	< 15 mA in accordance with EN 61131-2 Type 1	< 15 mA in accordance with EN 61131-2 Type 1
Input current, high	2 mA to 15 mA in accordance with EN 61131-2 Type 1	2 mA to 15 mA in accordance with EN 61131-2 Type 1
Input filter	3 ms	3 ms
Digital outputs		
max. current-carrying capacity per output signal		0.5 A, 2 A
Switching frequency load (resistive / inductive / inrush)		max. 100 Hz / max. 1 Hz / max. 8 Hz
Short-circuit-proof		Yes, cut-off for short circuit and error message
Output voltage, low		0 V DC
Output voltage, high		Supply voltage less 0.7 V DC
Max. total current of outputs		7 A, 8 A
Fieldbus		
Bus system	PROFIBUS-DP	PROFIBUS-DP
Transmission rate	Max. 12 Mbit/s (automatic detection)	Max. 12 Mbit/s (automatic detection)
Addressing	Via rotary coding switch (1 – 126)	Via rotary coding switch (1 – 126)
System integration	GSD file (Device-specific for each module)	GSD file (Device-specific for each module)
General data		
L x W x H	210 mm / 54 mm / 32 mm	210 mm / 54 mm / 32 mm
Earth	< 400 g	< 400 g
Protection degree	IP 67	IP 67
Operating temperature	0 °C...+60 °C	0 °C...+60 °C
Storage temperature	-25 °C...+85 °C	-25 °C...+85 °C
Housing main material / UL 94 flammability rating	Pocan, PBT / V-0	Pocan, PBT / V-0
Certificate	CE, cULus	CE, cULus

Note

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PROFIBUS-DP
Remote I/O for digital and analogue signal processing

SAI-AU



Ordering data

Module variants	Type	Qty.	Order No.
4 Analogue In / 2 Analogue Out / 4 Digital In	SAI-AU M12 PB AI/AO/DI	1	1890000000
Note			

Technical data

Connections	
Fieldbus (BUS-IN)	1x M12 plug 5-pole, B-coded
Fieldbus (BUS-OUT)	1x M12 female 5-pole, B-coded
Supply voltage (AUX-IN)	1x 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	10 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 ... 10V, 0 ... 20 mA, 4...20 mA
Maximum input voltage in relation to GND	35 V
Input resistance (load)	<125 Ohm
Max. input current (differential)	-50 mA to +50 mA (protected against polarity reversal)
Short-circuit-proof	Yes
Resolution / Accuracy	12-bit / < 0.2 %
Analogue outputs	
Measurement range	-10 V ... +10 V, 0 V ... 10V, 0 ... 20 mA, 4...20 mA
Output interval	5 ms to 250 ms (can be configured)
Short-circuit-proof	Yes
Resolution / Accuracy	12-bit / < 0.2 %
Fieldbus	
Bus system	PROFIBUS-DP
Transmission rate	Max. 12 Mbit/s (automatic detection)
Addressing	Via rotary coding switch (1 – 126)
System integration	GSD 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	

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Engineering tables for PROFIBUS

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.

PROFIBUS modules



PROFIBUS accessories



Sensor/actuator accessories



Markers



Protective caps



Ordering data

Description	Type	Qty.	Order No.
PROFIBUS modules			
16 Digital In	SAI-AU M12 PB 16DI	1	**1890020000**
16 Digital In / 8 Digital Out	SAI-AU M12 PB 16DI/8DO	1	**1890010000**
4 Analogue In / 2 Analogue Out / 4 Digital In	SAI-AU M12 PB AI/AO/DI	1	**1890000000**
8 Digital In / 8 Digital Out	SAI-AU M12 PB 8DI/8DO 2A	1	**1968220000**
16 Digital In	SAI-AU M8 PB 16DI	1	**1906550000**
16 Digital In / 8 Digital Out	SAI-AU M8 PB 16DI/8DO	1	**1906640000**
8 Digital In / 8 Digital Out	SAI-AU M8 PB 8DI/8DO 2A	1	**1975450000**
PROFIBUS accessories			
PROFIBUS cables with female plug and male plug			*)
PROFIBUS cables with female plug and other side open			*)
PROFIBUS cables with male plug and other side open			*)
PROFIBUS plug-in connector			*)
PROFIBUS terminating resistor	SAIEND PB M12 4P B-COD	1	**1784770000**
Sensor/actuator accessories			
Sensor-actuator cables			*)
Sensor-actuator plugs			*)
Markers			
Semi-transparent markers for PrintJet printing	ESG 8/13.5/43.3 SAI AU	5	**1912130000**
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

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CANopen
Remote I/O for digital signal processing

CANopen

SAI-AU



SAI-AU



Ordering data

Module variants	Type	Qty.	Order No.	Type	Qty.	Order No.
16 Digital In; 16 Digital In / 8 Digital Out	SAI-AU M8 CAN 16DI	1	**1906680000**	SAI-AU M8 CAN 16DI/8DO	1	**1906690000**
16 Digital In; 16 Digital In / 8 Digital Out	SAI-AU M12 CAN 16DI	1	**1906650000**	SAI-AU M12 CAN 16DI/8DO	1	**1906660000**
Note						

Technical data

Connections		
Fieldbus (BUS-IN)	1x M12 plug 5-pole, A-coded	1x M12 plug 5-pole, A-coded
Fieldbus (BUS-OUT)	1x M12 female 5-pole, A-coded	1x M12 female 5-pole, A-coded
Supply voltage (AUX-IN)	1x M12 plug 5-pole, A-coded	2x M12 plug 5-pole, A-coded
Supply voltage (AUX-OUT)	1x M12 female 5-pole, A-coded	
I/O connections	16 x M8 socket 3-pole / 8 x M12 socket 5-pole, A-coded	16 x M8 socket 3-pole / 8 x M12 socket 5-pole, A-coded
Voltage supply		
Operating voltage	24 V (18 V DC ... 30 V DC)	24 V (18 V DC ... 30 V DC)
Contact load	Per PIN max. 4 A	Per PIN max. 4 A
Max. total current module	8 A	8 A
Digital inputs		
Permitted input voltage	-30 V to +30 V (protected against polarity reversal)	-30 V to +30 V (protected against polarity reversal)
Input current, low	< 15 mA in accordance with EN 61131-2 Type 1	< 15 mA in accordance with EN 61131-2 Type 1
Input current, high	2 mA to 15 mA in accordance with EN 61131-2 Type 1	2 mA to 15 mA in accordance with EN 61131-2 Type 1
Input current, low	< 15 mA in accordance with EN 61131-2 Type 1	< 15 mA in accordance with EN 61131-2 Type 1
Input current, high	2 mA to 15 mA in accordance with EN 61131-2 Type 1	2 mA to 15 mA in accordance with EN 61131-2 Type 1
Input filter	3 ms	3 ms
Digital outputs		
max. current-carrying capacity per output signal		0.5 A, 2 A
Switching frequency load (resistive / inductive / inrush)		max. 100 Hz / max. 1 Hz / max. 8 Hz
Short-circuit-proof		Yes, cut-off for short circuit and error message
Output voltage, low		0 V DC
Output voltage, high		Supply voltage less 0.7 V DC
Max. total current of outputs		7 A, 8 A
Fieldbus		
Bus system	CANopen	CANopen
Transmission rate	Max. 1 Mbit/s (automatic detection)	Max. 1 Mbit/s (automatic detection)
Addressing	Via rotary coding switch (1 – 127)	Via rotary coding switch (1 – 127)
System integration	EDS file (Device-specific for each module)	EDS file (Device-specific for each module)
General data		
L x W x H	210 mm / 54 mm / 32 mm	210 mm / 54 mm / 32 mm
Earth	< 400 g	< 400 g
Protection degree	IP 67	IP 67
Operating temperature	0 °C...+60 °C	0 °C...+60 °C
Storage temperature	-25 °C...+85 °C	-25 °C...+85 °C
Housing main material / UL 94 flammability rating	Pocan, PBT / V-0	Pocan, PBT / V-0
Certificate	CE, cULus	CE, cULus

Note		

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CANopen
Remote I/O for digital and analogue signal processing

CANopen

SAI-AU



Ordering data

Module variants	Type	Qty.	Order No.
4 Analogue In / 2 Analogue Out / 4 Digital In	SAI-AU M12 CAN AI/AO/DI	1	1906670000
Note			

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	
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
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	CANopen
Transmission rate	Max. 1 Mbit/s (automatic detection)
Addressing	Via rotary coding switch (1 - 127)
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	

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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			*)
CANopen terminating resistor	SAIEND CAN-M12 5P A-COD	1	**1784760000**
Sensor/actuator accessories			
Sensor-actuator cables			*)
Sensor-actuator plugs			*)
Markers			
Semi-transparent markers for PrintJet printing	ESG 8/13.5/43.3 SAI AU	5	**1912130000**
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

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DeviceNet™ Remote I/O for digital signal processing

DeviceNet™

SAI-AU



SAI-AU



Ordering data

Module variants	Type	Qty.	Order No.
16 Digital In; 16 Digital In / 8 Digital Out	SAI-AU M8 DN 16DI	1	1906730000
16 Digital In; 16 Digital In / 8 Digital Out	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

Technical data

Connections		
Fieldbus (BUS-IN)	1x M12 plug 5-pole, A-coded	1x M12 plug 5-pole, A-coded
Fieldbus (BUS-OUT)	1x M12 female 5-pole, A-coded	1x M12 female 5-pole, A-coded
Supply voltage (AUX-IN)	1x M12 plug 5-pole, A-coded	2x M12 plug 5-pole, A-coded
Supply voltage (AUX-OUT)	1x M12 female 5-pole, A-coded	
I/O connections	16 x M8 socket 3-pole / 8 x M12 socket 5-pole, A-coded	16 x M8 socket 3-pole / 8 x M12 socket 5-pole, A-coded
Voltage supply		
Operating voltage	24 V (18 V DC ... 30 V DC)	24 V (18 V DC ... 30 V DC)
Contact load	Per PIN max. 4 A	Per PIN max. 4 A
Max. total current module	8 A	8 A
Digital inputs		
Permitted input voltage	-30 V to +30 V (protected against polarity reversal)	-30 V to +30 V (protected against polarity reversal)
Input current, low	< 15 mA in accordance with EN 61131-2 Type 1	< 15 mA in accordance with EN 61131-2 Type 1
Input current, high	2 mA to 15 mA in accordance with EN 61131-2 Type 1	2 mA to 15 mA in accordance with EN 61131-2 Type 1
Input current, low	< 15 mA in accordance with EN 61131-2 Type 1	< 15 mA in accordance with EN 61131-2 Type 1
Input current, high	2 mA to 15 mA in accordance with EN 61131-2 Type 1	2 mA to 15 mA in accordance with EN 61131-2 Type 1
Input filter	3 ms	3 ms
Digital outputs		
max. current-carrying capacity per output signal		0.5 A, 2 A
Switching frequency load (resistive / inductive / inrush)		max. 100 Hz / max. 1 Hz / max. 8 Hz
Short-circuit-proof		Yes, cut-off for short circuit and error message
Output voltage, low		0 V DC
Output voltage, high		Supply voltage less 0.7 V DC
Max. total current outputs		7 A
Fieldbus		
Bus system	DeviceNet™	DeviceNet™
Transmission rate	Max. 500 kBit/s (automatic detection)	Max. 500 kBit/s (automatic detection)
Addressing	Via rotary coding switch (0 – 63)	Via rotary coding switch (0 – 63)
System integration	EDS file (Device-specific for each module)	EDS file (Device-specific for each module)
General data		
L x W x H	210 mm / 54 mm / 32 mm	210 mm / 54 mm / 32 mm
Earth	< 400 g	< 400 g
Protection degree	IP 67	IP 67
Operating temperature	0 °C...+60 °C	0 °C...+60 °C
Storage temperature	-25 °C...+85 °C	-25 °C...+85 °C
Housing main material / UL 94 flammability rating	Pocan, PBT / V-0	Pocan, PBT / V-0
Certificate	CE, cULus	CE, cULus

Note		

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DeviceNet™
Remote I/O for digital and analogue signal processing

SAI-AU



Ordering data

Module variants	Type	Qty.	Order No.
4 Analogue In / 2 Analogue Out / 4 Digital In	SAI-AU M12 DN AI/AO/DI	1	1906720000
Note			

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

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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			*)
Sensor-actuator plugs			*)
Markers			
Semi-transparent markers for PrintJet printing	ESG 8/13.5/43.3 SAI AU	5	**1912130000**
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

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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.



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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.

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Gateway modules with digital inputs

SAI-AU GW



SAI-AU GW



Ordering data

Module variants			
	16 Digital In		
Note			

Type	Qty.	Order No.
SAI-AU M12 PB GW 16DI	1	**1938550000**

Type	Qty.	Order No.
SAI-AU M8 PB GW 16DI	1	**1024310000**

Technical data

Connections		
Fieldbus (BUS-IN)	1x M12 plug 5-pole, B-coded	1x M12 plug 5-pole, B-coded
Fieldbus (BUS-OUT)	1x M12 female 5-pole, B-coded	1x M12 female 5-pole, B-coded
Supply voltage (AUX-IN)	1x M12 plug 5-pole, A-coded	1x M12 plug 5-pole, A-coded
Connection to Subbus (SUB-OUT)	1 x M8 female 4-pole, A-coded	1 x M8 female 4-pole, A-coded
I/O connections	8 x M12 socket 5-pole, A-coded	16x M8 female 3-pole
Voltage supply		
Operating voltage	24 V (18 V DC ... 30 V DC)	24 V (18 V DC ... 30 V DC)
Contact load	Per PIN max. 4 A	Per PIN max. 4 A
Max. total current module	8 A	8 A
Digital inputs		
Permitted input voltage	-30 V to +30 V (protected against polarity reversal)	-30 V to +30 V (protected against polarity reversal)
Input current, low	< 15 mA in accordance with EN 61131-2 Type 1	< 15 mA in accordance with EN 61131-2 Type 1
Input current, high	2 mA to 15 mA in accordance with EN 61131-2 Type 1	2 mA to 15 mA in accordance with EN 61131-2 Type 1
Input current, low	< 15 mA in accordance with EN 61131-2 Type 1	< 15 mA in accordance with EN 61131-2 Type 1
Input current, high	2 mA to 15 mA in accordance with EN 61131-2 Type 1	2 mA to 15 mA in accordance with EN 61131-2 Type 1
Input filter	1 ms, 3 ms, 5 ms, 10 ms, Configurable	1 ms, 3 ms, 5 ms, 10 ms, Configurable
Fieldbus		
Bus system	PROFIBUS-DP	PROFIBUS-DP
Transmission rate	Max. 12 Mbit/s (automatic detection)	Max. 12 Mbit/s (automatic detection)
Addressing	Via rotary coding switch (1 – 126)	Via rotary coding switch (1 – 126)
System integration	GSD file	GSD file
General data		
L x W x H	210 mm / 54 mm / 32 mm	210 mm / 54 mm / 32 mm
Earth	< 350 g	< 350 g
Protection degree	IP 67	IP 67
Operating temperature	0 °C...+60 °C	0 °C...+60 °C
Storage temperature	-25 °C...+85 °C	-25 °C...+85 °C
Housing main material / UL 94 flammability rating	Pocan, PBT / V-0	Pocan, PBT / V-0
Certificate	CE, cULus	CE, cULus

Note		

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Engineering tables for PROFIBUS

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.

PROFIBUS modules



PROFIBUS accessories



Subbus cables / terminating resistor



Sensor/actuator accessories



Markers



Protective caps



Ordering data

Description	Type	Qty.	Order No.
PROFIBUS modules			
PROFIBUS Gateway M12	SAI-AU M12 PB GW 16DI	1	**1938550000**
PROFIBUS Gateway M8	SAI-AU M8 PB GW 16DI	1	**1024310000**
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**
PROFIBUS accessories			
PROFIBUS cables with female plug and male plug			*)
PROFIBUS cables with female plug and other side open			*)
PROFIBUS cables with male plug and other side open			*)
PROFIBUS plug-in connector			*)
PROFIBUS terminating resistor	SAIEND PB M12 4P B-COD	1	**1784770000**
Subbus cables / terminating resistor			
Subbus cables			*)
Subbus terminating resistor	SAIEND CAN M8 4P	1	**1955340000**
Sensor/actuator accessories			
Sensor-actuator cables			*)
Sensor-actuator plugs			*)
Markers			
Semi-transparent markers for PrintJet printing	ESG 8/13.5/43.3 SAI AU	5	**1912130000**
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

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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	

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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			*)
DeviceNet™ terminating resistor	SAIEND CAN-M12 5P A-COD	1	**1784760000**
Subbus cables / terminating resistor			
Subbus cables			*)
Subbus terminating resistor	SAIEND CAN M8 4P	1	**1955340000**
Sensor/actuator accessories			
Sensor-actuator cables			*)
Sensor-actuator plugs			*)
Markers			
Semi-transparent markers for PrintJet printing	ESG 8/13.5/43.3 SAI AU	5	**1912130000**
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

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Subbus modules with digital inputs/outputs

SAI-AU Digital



SAI-AU Digital



Ordering data

Module variants	Type	Qty.	Order No.
8 Digital In; 8 Digital In / 8 Digital Out	SAI-AU M8 SB 8DI	1	**1938600000**
8 Digital In; 8 Digital In / 8 Digital Out	SAI-AU M12 SB 8DI	1	**1938610000**
8 Digital Out 2A			
8 Digital Out 2A			
Note			

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**

Technical data

Connections		
Supply voltage (AUX-IN)		1x M12 plug 5-pole, A-coded
Connection to Subbus (SUB-IN)	1 x M8 plug 4-pole, A-coded	1 x M8 plug 4-pole, A-coded
Connection to Subbus (SUB-OUT)	1 x M8 female 4-pole, A-coded	1 x M8 female 4-pole, A-coded
I/O connections	4 x M12 female, 5-pole A-coded	4 x M12 female, 5-pole A-coded
Voltage supply		
Operating voltage	24 V (18 V DC ... 30 V DC)	24 V (18 V DC ... 30 V DC)
Contact load		Per PIN max. 4 A
Max. total current module		8 A
Digital inputs		
Permitted input voltage	-30 V to +30 V (protected against polarity reversal)	-30 V to +30 V (protected against polarity reversal)
Input current, low	< 15 mA in accordance with EN 61131-2 Type 1	< 15 mA in accordance with EN 61131-2 Type 1
Input current, high	2 mA to 15 mA in accordance with EN 61131-2 Type 1	2 mA to 15 mA in accordance with EN 61131-2 Type 1
Input current, low	< 15 mA in accordance with EN 61131-2 Type 1	< 15 mA in accordance with EN 61131-2 Type 1
Input current, high	2 mA to 15 mA in accordance with EN 61131-2 Type 1	2 mA to 15 mA in accordance with EN 61131-2 Type 1
Input filter	1 ms, 3 ms, 5 ms, 10 ms, Configurable	1 ms, 3 ms, 5 ms, 10 ms, Configurable
Separation of potentials to module electronics	none	none
Digital outputs		
max. current-carrying capacity per output signal		2 A
Separation of potentials to module electronics		none
Switching frequency, resistive load		max. 100 Hz
Switching frequency, inductive load		max. 1 Hz
Switching frequency, lamp load		max. 8 Hz
Short-circuit-proof		Yes, cut-off for short circuit and error message
Output voltage, low		0 V DC
Output voltage, high		Supply voltage less 0.7 V DC
Max. total current outputs		4 A
Fieldbus		
Bus system	Subbus	Subbus
Addressing	automatic	automatic
System integration	automatic	automatic
General data		
L x W x H	155 mm / 30 mm / 32 mm	180 mm / 30 mm / 32 mm
Earth	< 200 g	< 200 g
Protection degree	IP 67	IP 67
Operating temperature	0 °C...+60 °C	0 °C...+60 °C
Storage temperature	-25 °C...+85 °C	-25 °C...+85 °C
Housing main material / UL 94 flammability rating	Pocan, PBT / 5VA	Pocan, PBT / 5VA
Certificate	CE, cULus	CE, cULus

Note

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Subbus modules with analogue inputs/outputs

SAI-AU Analog



SAI-AU Analog



Ordering data

Module variants	Type	Qty.	Order No.	Type	Qty.	Order No.
4 Analogue Out / 4 Analogue In	SAI-AU M12 SB 4AO	1	1938700000	SAI-AU M12 SB 4AI	1	1938690000
Note						

Technical data

Connections		
Connection to Subbus (SUB-IN)	1 x M8 plug 4-pole, A-coded	1 x M8 plug 4-pole, A-coded
Connection to Subbus (SUB-OUT)	1 x M8 female 4-pole, A-coded	1 x M8 female 4-pole, A-coded
I/O connections	4 x M12 female, 5-pole A-coded	4 x M12 female, 5-pole A-coded
Voltage supply		
Operating voltage	24 V (18 V DC ... 30 V DC)	24 V (18 V DC ... 30 V DC)
Analogue inputs		
Measurement range		-10 V ... +10 V, 0 V ... 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	Subbus	Subbus
Addressing	automatic	automatic
System integration	automatic	automatic
General data		
L x W x H	155 mm / 30 mm / 32 mm	155 mm / 30 mm / 32 mm
Earth	< 200 g	< 200 g
Protection degree	IP 67	IP 67
Operating temperature	0 °C...+60 °C	0 °C...+60 °C
Storage temperature	-25 °C...+85 °C	-25 °C...+85 °C
Housing main material / UL 94 flammability rating	Pocan, PBT / 5VA	Pocan, PBT / 5VA
Certificate	CE, cULus	CE, cULus

Note		

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Subbus modules with functional inputs

SAI-AU Counter



Ordering data

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

Technical data

Connections	
Supply voltage (AUX-IN)	1x M12 plug 5-pole, A-coded
Connection to Subbus (SUB-IN)	1 x M8 plug 4-pole, A-coded
Connection to Subbus (SUB-OUT)	1 x M8 female 4-pole, A-coded
I/O connections	4 x M12 female, 5-pole A-coded
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
Functional inputs	
Counting breadth	32 Bit
Switching frequency	100 kHz
Number of inputs	2 x enables, 2 x counters, 2 x count directions
Fieldbus	
Bus system	Subbus
Addressing	automatic
System integration	automatic
General data	
L x W x H	180 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	

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Subbus modules with functional inputs

SAI-AU Thermo



Ordering data

Module variants		Type	Qty.	Order No.
	4 thermal inputs	SAI-AU M12 SB 4Thermo	1	1938720000
Note				

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 mm32 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	

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Subbus modules with functional inputs

SAI-AU PT100



Ordering data

Module variants	Type	Qty.	Order No.
4 PT100 inputs	SAI-AU M12 SB 4PT100	1	**1938710000**
Note			

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	

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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.

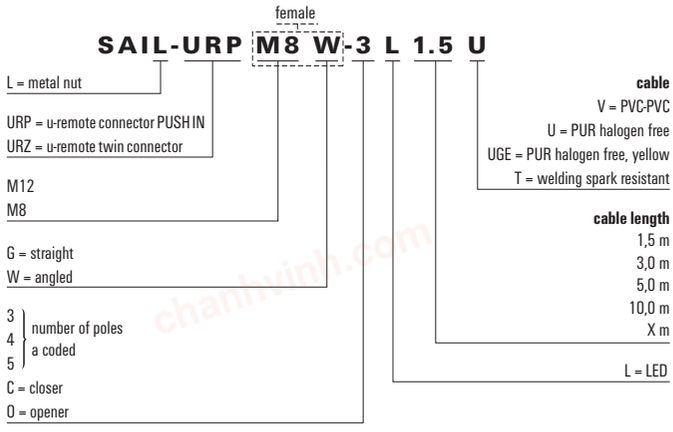
Standard cable lengths

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





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Connecting cables

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



Technical data

	Halogen-free PUR	PVC
Rated current	4 A	4 A
Rated voltage (in accordance with VDE standard 0110 ISO group C)	M12: 250 V / M8: 60 V (3-pole) / LED: 24 V	M12: 250 V / M8: 60 V (3-polig) / LED: 24 V
Temperature range of housing	–25 to +85 °C	–25 to +85 °C
Core cross-section	M12: 0.34 mm²/ M8: 0.25 mm²	M12: 0.34 mm²/ M8: 0.25 mm²
Type of protection	IP 67/68 (M12/M8 head)	IP 67/68 (M12/M8 head)
Contact surface	Gold-plated	Gold-plated
Sheath material	PUR	PVC
Wire core insulation	TPM	PVC

Order data

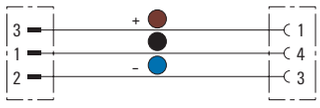
Module variants	Type	Qty.	Order No.	Type	Qty.	Order No.
NO contact / u-remote plug - M12 straight socket	SAIL-URPM12G-C-1.5U	1	1475070150	SAIL-URPM12G-C-1.5V	1	1475280000
NO contact / u-remote plug - M12 angled socket	SAIL-URPM12W-C-1.5U	1	1475080150	SAIL-URPM12W-C-1.5V	1	1475290000
NC contact / u-remote plug - M12 straight socket	SAIL-URPM12G-O-1.5U	1	1475090150	SAIL-URPM12G-O-1.5V	1	1475300000
NC contact / u-remote plug - M12 angled socket	SAIL-URPM12W-O-1.5U	1	1475120150	SAIL-URPM12W-O-1.5V	1	1475310000
4-pin / u-remote plug - M12 straight socket	SAIL-URPM12G-4-1.5U	1	1475130150	SAIL-URPM12G-4-1.5V	1	1475320000
4-pin / u-remote plug - M12 angled socket	SAIL-URPM12W-4-1.5U	1	1475140150	SAIL-URPM12W-4-1.5V	1	1475330000
3-pin / u-remote plug - M8 straight socket	SAIL-URPM8G-3-1.5U	1	1475160150	SAIL-URPM8G-3-1.5V	1	1475340000
3-pin / u-remote plug - M8 angled socket	SAIL-URPM8W-3-1.5U	1	1475170150	SAIL-URPM8W-3-1.5V	1	1475350000
4-pin / u-remote plug - M12 angled socket - LED	SAIL-URPM12W-2L-1.5U	1	1475450150	SAIL-URPM12W-2L-1.5V	1	1475500150
3-pin / u-remote plug - M8 angled socket - LED	SAIL-URPM8W-2L-1.5U	1	1475470150	SAIL-URPM8W-2L-1.5V	1	1475510150
Twin / NO contact / u-remote plug - M12 straight socket	SAIL-URZM12G-C-1.5U	1	1475030150			
Twin / NO contact / u-remote plug - M12 angled socket	SAIL-URZM12W-C-1.5U	1	1475040150			
Twin / 3-pin / u-remote plug - M8 straight socket	SAIL-URZM8G-3-1.5U	1	1475050150			
Twin / 3-pin / u-remote plug - M8 angled socket	SAIL-URZM8W-3-1.5U	1	1475060150			

Accessories

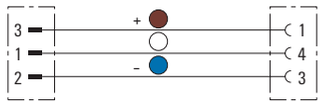
	Type	Qty.	Order No.	Type	Qty.	Order No.
M8/M12 cable gland tool torque	Screwty®-Set-DM	1	1920000000	Screwty®-Set-DM	1	1920000000

Wiring diagram

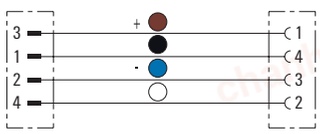
3-pin / NO contact



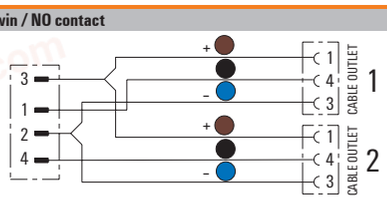
NC contact



4-pin



Twin / NO contact



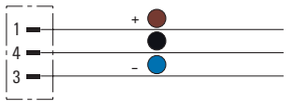
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Accessories for sensor cables

M12 cables with connector at one end only

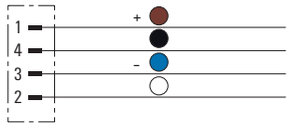
3-pin





4-pin





Technical data

Rated current	4 A	4 A
Rated voltage (in accordance with VDE standard 0110 ISO group C)	250 V	250 V
Temperature range of housing	–25 to +85 °C	–25 to +85 °C
Core cross-section	0.34 mm²	0.34 mm²
Type of protection	IP 67/68	IP 67/68
Contact surface	Gold-plated	Gold-plated
Sheath material	PUR	PVC
Wire core insulation	PUR	PVC

Order data

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

Accessories

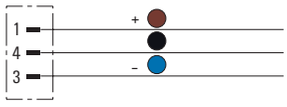
	Type	Qty.	Order No.	Type	Qty.	Order No.
M8/M12 cable gland tool torque	Screwty®-Set-DM	1	**1920000000**	Screwty®-Set-DM	1	**1920000000**

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M8 cables with connector at one end only

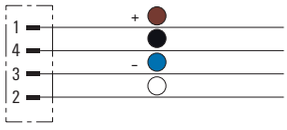
3-pin





4-pin





Technical data

Rated current	4 A	4 A
Rated voltage (in accordance with VDE standard 0110 ISO group C)	60 V	30 V
Temperature range of housing	–25 to +85 °C	–25 to +85 °C
Core cross-section	0.25 mm²	0.25 mm²
Type of protection	IP 67/68	IP 67/68
Contact surface	Gold-plated	Gold-plated
Sheath material	PUR	PVC
Wire core insulation	PUR	PVC

Ordering data

Module variants	Type	Qty.	Order No.	Type	Qty.	Order No.
PVC M8 straight socket	SAIL-M8BG-3-1.5V	1	**1927240150**	SAIL-M8BG-4-1.5V	1	**1927260150**
Halogen-free PUR M8 straight socket	SAIL-M8BG-3-1.5U	1	**9457450150**	SAIL-M8BG-4-1.5U	1	**9457850150**
Yellow halogen-free PUR M8 straight socket	SAIL-M8BG-3-1.5UGE	1	**1093190150**	SAIL-M8BG-4-1.5UGE	1	**1093200150**
PVC M8 angled socket	SAIL-M8BW-3-1.5V	1	**1927320150**	SAIL-M8BW-4-1.5V	1	**1927340150**
Halogen-free PUR M8 angled socket	SAIL-M8BW-3-1.5U	1	**9457380150**	SAIL-M8BW-4-1.5U	1	**9456150150**
Yellow halogen-free PUR M8 angled socket	SAIL-M8BW-3-1.5UGE	1	**1093220150**	SAIL-M8BW-4-1.5UGE	1	**1093240150**

Accessories

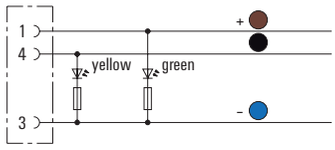
	Type	Qty.	Order No.	Type	Qty.	Order No.
M8/M12 cable gland tool torque	Screwty®-Set-DM	1	**1920000000**	Screwty®-Set-DM	1	**1920000000**

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

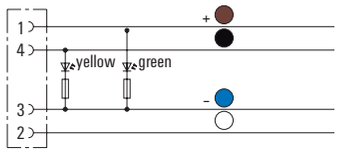
3-pin / 2 LEDs





4-pin / 2 LEDs





Technical data

Rated current	4 A	4 A
Rated voltage (in accordance with VDE standard 0110 ISO group C)	24 V	24 V
Temperature range of housing	–25 to +85 °C	–25 to +85 °C
Core cross-section	M12: 0.34 mm²/ M8: 0.25 mm²	M12: 0.34 mm²/ M8: 0.25 mm²
Type of protection	IP 67/68	IP 67/68
Contact surface	Gold-plated	Gold-plated
Sheath material	PUR	PUR
Wire core insulation	PUR	PUR

Order data

Module variants	Type	Qty.	Order No.	Type	Qty.	Order No.
PVC M12 angled socket	SAIL-M12BW-3L1.5V		**1925460150**	SAIL-M12BW-4-2L1.5V		**1925470150**
Halogen-free PUR M12 angled socket	SAIL-M12BW-3L1.5U		**9457800150**	SAIL-M12BW-4-2L1.5U		**9456380150**
Yellow halogen-free PUR M12 angled socket	SAIL-M12BW-3L1.5UGE		**1114880150**	SAIL-M12BW-4-2L1.5UGE		**1092950150**
Halogen-free PUR M12 angled socket, resistant to welding beads	SAIL-M12BW-3L1.5T		**1004330150**	SAIL-M12BW-4-2L1.5T		**1007000150**
PVC M8 angled socket	SAIL-M8BW-3L1.5V		**1927350150**	SAIL-M8BW-4L1.5V		**1927360150**
Halogen-free PUR M8 angled socket	SAIL-M8BW-3L1.5U		**9457460150**	SAIL-M8BW-4L1.5U		**1906400150**
Yellow halogen-free PUR M8 angled socket	SAIL-M8BW-3L1.5UGE		**1093210150**	SAIL-M8BW-4L1.5UGE		**1093230150**

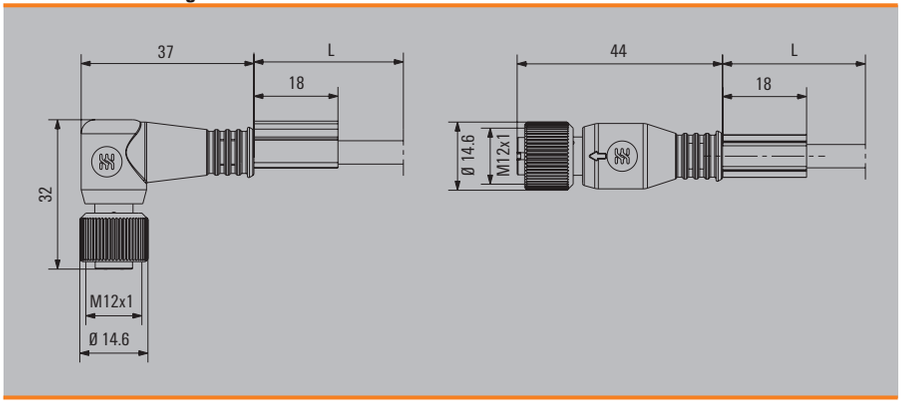
Accessories

	Type	Qty.	Order No.	Type	Qty.	Order No.
M8/M12 cable gland tool torque	Screwty®-Set-DM	1	**1920000000**	Screwty®-Set-DM	1	**1920000000**

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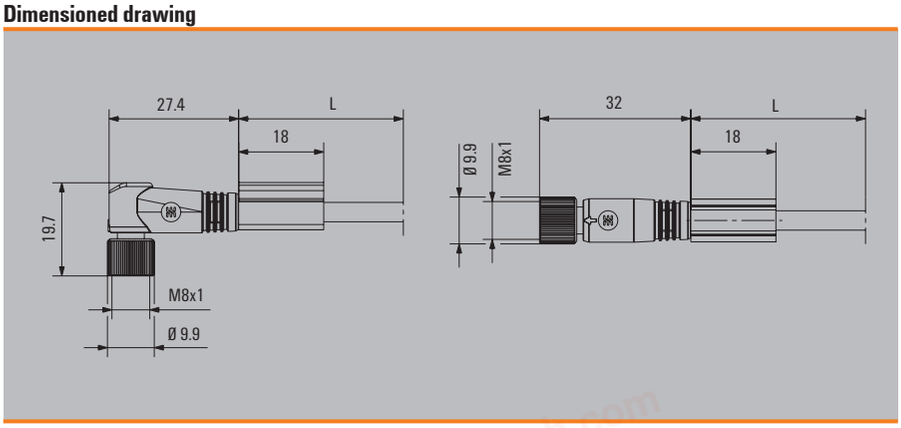
M12 straight/angled socket

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



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	Index Order No.	X.3
	Addresses worldwide	X.4

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Type	Order No.	Page
D		
DEK 5/8-11.5 MC NE WS	1341630000	A.75
DEK 5/8-11.5 MC SDR	1341610000	A.75
E		
ESG 8/13.5/43.3 SAI AU	1912130000	B.12
ESO UR20 DIN A4 WS	1429430000	A.75
I		
IE-C6FP8LE0015M40M40-E	1487980000	A.75
K		
KOSM BHZ5.00	1483050000	A.75
P		
PM 2.7/2.6 MC NE WS	1323710000	A.75
PM 2.7/2.6 MC SDR	1323700000	A.75
S		
SAI-AU M12 CAN 16DI	1906650000	B.14
SAI-AU M12 CAN 16DI/8DO	1906660000	B.14
SAI-AU M12 CAN AI/AO/DI	1906670000	B.15
SAI-AU M12 DN 16DI	1906700000	B.18
SAI-AU M12 DN 16DI/8DO	1906710000	B.18
SAI-AU M12 DN AI/AO/DI	1906720000	B.19
SAI-AU M12 DN GW 16DI	1938570000	B.26
SAI-AU M12 PB 16DI	1890020000	B.10
SAI-AU M12 PB 16DI/8DO	1890010000	B.10
SAI-AU M12 PB 8DI8DO 2A	1968220000	B.10
SAI-AU M12 PB AI/AO/DI	1890000000	B.11
SAI-AU M12 PB GW 16DI	1938550000	B.24
SAI-AU M12 SB 2Counter	1938730000	B.30
SAI-AU M12 SB 4AI	1938690000	B.29
SAI-AU M12 SB 4AO	1938700000	B.29
SAI-AU M12 SB 4PT100	1938710000	B.32
SAI-AU M12 SB 4Thermo	1938720000	B.31
SAI-AU M12 SB 8DI	1938610000	B.28
SAI-AU M12 SB 8DIO	1938640000	B.28
SAI-AU M12 SB 8DO 2A	1938680000	B.28
SAI-AU M8 CAN 16DI	1906680000	B.14
SAI-AU M8 CAN 16DI/8DO	1906690000	B.14
SAI-AU M8 DN 16DI	1906730000	B.18
SAI-AU M8 DN 16DI/8DO	1906740000	B.18
SAI-AU M8 PB 16DI	1906550000	B.10
SAI-AU M8 PB 16DI/8DO	1906640000	B.10
SAI-AU M8 PB 8DI8DO 2A	1975450000	B.10
SAI-AU M8 PB GW 16DI	1024310000	B.24
SAI-AU M8 SB 8DI	1938600000	B.28
SAI-AU M8 SB 8DIO	1938630000	B.28
SAI-AU M8 SB 8DO 2A	1938660000	B.28
SAI-SK	9456050000	B.12
SAI-SK M8	1802760000	B.12
SAI-SK Stecker M12	1781520000	B.12
SAI-SK-M12-UNI	2330260000	B.12
SAIEND CAN M8 4P	1955340000	B.25
SAIEND CAN-M12 5P A-COD	1784760000	B.16
SAIEND PB M12 4P B-COD	1784770000	B.12
SAIL-M12BG-3-1.5T	1968590150	B.36
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SAIL-M8BG-3-1.5UGE	1093190150	B.37
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SAIL-M8BW-4L1.5UGE	1093230150	B.38
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SAIL-URPM12G-4-1.5U	1475130150	B.35
SAIL-URPM12G-4-1.5V	1475320000	B.35
SAIL-URPM12G-C-1.5U	1475070150	B.35
SAIL-URPM12G-C-1.5V	1475280000	B.35
SAIL-URPM12G-O-1.5U	1475090150	B.35
SAIL-URPM12G-O-1.5V	1475300000	B.35
SAIL-URPM12W-2L-1.5U	1475450150	B.35
SAIL-URPM12W-2L-1.5V	1475500150	B.35
SAIL-URPM12W-4-1.5U	1475140150	B.35
SAIL-URPM12W-4-1.5V	1475330000	B.35
SAIL-URPM12W-C-1.5U	1475080150	B.35
SAIL-URPM12W-C-1.5V	1475290000	B.35
SAIL-URPM12W-O-1.5U	1475120150	B.35
SAIL-URPM12W-O-1.5V	1475310000	B.35
SAIL-URPM8G-3-1.5U	1475160150	B.35
SAIL-URPM8G-3-1.5V	1475340000	B.35
SAIL-URPM8W-2L-1.5U	1475470150	B.35
SAIL-URPM8W-2L-1.5V	1475510150	B.35
SAIL-URPM8W-3-1.5U	1475170150	B.35
SAIL-URPM8W-3-1.5V	1475350000	B.35
SAIL-URZM12G-C-1.5U	1475030150	B.35
SAIL-URZM12W-C-1.5U	1475040150	B.35
SAIL-URZM8G-3-1.5U	1475050150	B.35
SAIL-URZM8W-3-1.5U	1475060150	B.35
Screwty®-Set-DM	1920000000	B.35
T		
THM UR20 GE	1429910000	A.75
THM UR20 WS	1429420000	A.75
U		
UR20-16AUX-FE	1334790000	A.75
UR20-16AUX-GND-I	1334800000	A.75
UR20-16AUX-GND-O	1334810000	A.75
UR20-16AUX-I	1334770000	A.75
UR20-16AUX-O	1334780000	A.75
UR20-16DI-P	1315200000	A.23
UR20-16DI-P-PLC-INT	1315210000	A.24
UR20-16DO-P	1315250000	A.34
UR20-16DO-P-PLC-INT	1315270000	A.35
UR20-1CNT-100-1DO	1315570000	A.39
UR20-2CNT-100	1315590000	A.40
UR20-2DI-P-TS	1460140000	A.25
UR20-2FCNT-100	1508080000	A.41
UR20-2PWM-PN-0.5A	1315600000	A.43
UR20-2PWM-PN-2A	1315610000	A.44
UR20-4AI-RTD-DIAG	1315700000	A.58
UR20-4AI-TC-DIAG	1315710000	A.57
UR20-4AI-UI-12	1394390000	A.51
UR20-4AI-UI-16	1315620000	A.47
UR20-4AI-UI-16-DIAG	1315690000	A.48
UR20-4AI-UI-16-DIAG-HD	1506910000	A.50
UR20-4AI-UI-16-HD	1506920000	A.49
UR20-4AO-UI-16	1315680000	A.61
UR20-4AO-UI-16 -DIAG	1315730000	A.62
UR20-4AO-UI-16-DIAG-HD	1506930000	A.64
UR20-4AO-UI-16-HD	1510690000	A.63
UR20-4DI-P	1315170000	A.19
UR20-4DI-P-TS	1460150000	A.26
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UR20-4DO-P-2A	1315230000	A.30
UR20-4DO-PN-2A	1394420000	A.31
UR20-4RO-CO-255	1315550000	A.37
UR20-4RO-SSR-255	1315540000	A.36
UR20-8AI-I-16-DIAG-HD	1315720000	A.53
UR20-8AI-I-16-HD	1315650000	A.52
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UR20-8DI-P-2W	1315180000	A.20
UR20-8DI-P-3W	1394400000	A.21
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