

u-remote IP67

Subbus modules

Digital universal modules	Sensor/Actuator connection	Output / channel	Type	Order No.
8 digital inputs or 8 digital outputs, configurable	M8	0.5 A	SAI-AU M8 SB 8DIO	1938630000
8 digital inputs or 8 digital outputs, configurable	M12	0.5 A	SAI-AU M12 SB 8DIO	1938640000
Digital inputs	Sensor connection	Input filter	Type	Order No.
8 digital inputs	M8	configurable	SAI-AU M8 SB 8DI	1938600000
8 digital inputs	M12	configurable	SAI-AU M12 SB 8DI	1938610000
Digital outputs	Actuator connection	Output / channel	Type	Order No.
8 digital outputs	M8	2 A per channel	SAI-AU M8 SB 8DO 2A	1938660000
8 digital outputs	M12	2 A per channel	SAI-AU M12 SB 8DO 2A	1938680000
Analogue inputs	Sensor connection	Resolution	Type	Order No.
Voltage (0 - 10 V, ±10 V), current (0 - 20 mA, 4 - 20 mA)				
4 analogue inputs	M12	12 Bit	SAI-AU M12 SB 4AI	1938690000
Analogue outputs	Actuator connection	Resolution	Type	Order No.
Voltage (0 - 10 V, ±10 V), current (0 - 20 mA, 4 - 20 mA)				
4 analogue outputs	M12	12 Bit	SAI-AU M12 SB 4AO	1938700000
Functional inputs	Sensor connection	Input filter	Type	Order No.
4 PT100 inputs	M12	configurable	SAI-AU M12 SB 4PT100	1938710000
4 thermocouple inputs	M12	configurable	SAI-AU M12 SB 4Thermo	1938720000
2 counter inputs	M12	configurable	SAI-AU M12 SB 2Counter	1938730000



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u-remote
Product overview
 Let's connect.



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Fieldbus coupler

Fieldbus protocol	Connection	Max. transmission rate	Type	Order No.
PROFIBUS DP-V1	9-pole SUB-D plug	12 Mbit/s	UR20-FBC-PB-DP	1334870000
PROFINET IO with RT and IRT	2 x RJ45	100 Mbit/s	UR20-FBC-PN-IRT	1334880000
EtherCAT	2 x RJ45	100 Mbit/s	UR20-FBC-EC	1334910000
Modbus	2 x RJ45	100 Mbit/s	UR20-FBC-MOD-TCP	1334930000
EtherNet/IP	2 x RJ45	100 Mbit/s	UR20-FBC-EIP	1334920000
CANopen	9-pole SUB-D plug	1 Mbit/s	UR20-FBC-CAN	1334890000
DeviceNet	5-pole connection socket (DeviceNet)	500 kbit/s	UR20-FBC-DN	1334900000



Digital input modules

Inputs	Sensor connection	Input	Type	Order No.
4 digital inputs	2-wire, 3-wire, 3-wire+FE	24 V, P-switching	UR20-4DI-P	1315170000
4 digital inputs	2-wire, 3-wire	24 V, P-switching	UR20-4DI-P-3W	2009360000
4 digital inputs	2-wire, 3-wire, 3-wire+FE	24 V, N-switching	UR20-4DI-N	1315350000
4 digital inputs	2-wire	110 - 230 VAC	UR20-4DI-2W-230V-AC	1550070000
8 digital inputs	2-wire	24 V, P-switching	UR20-8DI-P-2W	1315180000
8 digital inputs	2-wire, 3-wire	24 V, P-switching	UR20-8DI-P-3W	1394400000
8 digital inputs	2-wire, 3-wire	24 V, P-switching	UR20-8DI-P-3W-HD	1315190000
8 digital inputs	2-wire, 3-wire	24 V, N-switching	UR20-8DI-N-3W	1315370000
16 digital inputs	1-wire	24 V, P-switching	UR20-16DI-P	1315200000
16 digital inputs	1-wire	24 V, N-switching	UR20-16DI-N	1315390000
16 digital inputs	PLC interface	24 V, P-switching	UR20-16DI-P-PLC-INT	1315210000
16 digital inputs	PLC interface	24 V, N-switching	UR20-16DI-N-PLC-INT	1315400000
Time stamp				
2 digital inputs	2-wire, 3-wire, 3-wire+FE	24 V, P-switching	UR20-2DI-P-TS	1460140000
4 digital inputs	2-wire, 3-wire, 3-wire+FE	24 V, P-switching	UR20-4DI-P-TS	1460150000



Digital output modules

Outputs	Actuator connection	Output / channel	Type	Order No.
4 digital outputs	2-wire, 3-wire, 3-wire+FE	0.5 A, P-switching	UR20-4DO-P	1315220000
4 digital outputs	2-wire, 3-wire, 3-wire+FE	0.5 A, N-switching	UR20-4DO-N	1315410000
4 digital outputs	2-wire, 3-wire, 3-wire+FE	2 A, P-switching	UR20-4DO-P-2A	1315230000
4 digital outputs	2-wire, 3-wire, 3-wire+FE	2 A, N-switching	UR20-4DO-N-2A	1315420000
4 digital outputs	2-wire, 3-wire, 3-wire+FE	2 A, Push-Pull	UR20-4DO-PN-2A	1394420000
8 digital outputs	2-wire	0.5 A, P-switching	UR20-8DO-P	1315240000
8 digital outputs	2-wire	0.5 A, N-switching	UR20-8DO-N	1315430000
8 digital outputs	2-wire	0.5 A, P-switching	UR20-8DO-P-HD	1509830000
16 digital outputs	1-Leiter	0.5 A, P-switching	UR20-16DO-P	1315250000
16 digital outputs	1-Leiter	0.5 A, N-switching	UR20-16DO-N	1315440000
16 digital outputs	PLC interface	0.5 A, P-switching	UR20-16DO-P-PLC-INT	1315270000
16 digital outputs	PLC interface	0.5 A, N-switching	UR20-16DO-N-PLC-INT	1315450000
Solid-state output				
4 digital outputs	SSR/triac	255 V AC/0.5 A	UR20-4RO-SSR-255	1315540000
Relay output / change over				
4 digital outputs	Change over contact	255 V AC/0.5 A	UR20-4RO-CO-255	1315550000



Analogue input modules

Inputs	Sensor connection	Resolution	Type	Order No.
Voltage (0 - 5 V, ±5 V, 0 - 10 V, ±10 V, 1 - 5 V, 2 - 10 V), current (0 - 20 mA, 4 - 20 mA)				
4 parameterisable inputs	2-wire, 3-wire, 3-wire+FE	12 Bit	UR20-4AI-UJ-12	1394390000
4 parameterisable inputs	2-wire, 3-wire, 3-wire+FE	16 Bit	UR20-4AI-UJ-16	1315620000
4 parameterisable inputs	2-wire, 3-wire, 3-wire+FE	16 Bit with individual channel diagnosis	UR20-4AI-UJ-16-DIAG	1315690000
4 parameterisable inputs	HD connection, 2-wire, 3-wire, 3-wire+FE	16 Bit	UR20-4AI-UJ-16-HD	1506920000
4 parameterisable inputs	HD connection, 2-wire, 3-wire, 3-wire+FE	16 Bit with individual channel diagnosis	UR20-4AI-UJ-16-DIAG-HD	1506910000
4 parameterisable differential inputs	2-wire, 3-wire, 4-wire	16 Bit with individual channel diagnosis	UR20-4AI-UJ-DIF-16-DIAG	1993880000
Current (0 - 20 mA, 4 - 20 mA)				
8 parameterisable inputs	PLC interface, 2-wire	16 Bit	UR20-8AI-PLC-INT	1315670000
8 parameterisable inputs	HD connection, 2-wire, 3-wire, 3-wire+FE	16 Bit	UR20-8AI-16-HD	1315650000
8 parameterisable inputs	HD connection, 2-wire, 3-wire, 3-wire+FE	16 Bit with individual channel diagnosis	UR20-8AI-16-DIAG-HD	1315720000



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Analogue output modules

Outputs	Actuator connection	Resolution	Type	Order No.
Voltage (0 - 5 V, 0 - 10 V, 1 - 5 V, 2 - 10 V, ±10 V), current (0 - 20 mA or 4 - 20 mA)				
4 parameterisable outputs	2-wire, 4-wire	16 Bit	UR20-4AO-UJ-16	1315680000
4 parameterisable outputs	2-wire, 4-wire	16 Bit with individual channel diagnosis	UR20-4AO-UJ-16-DIAG	1315730000
4 parameterisable outputs	2-wire, 4-wire	16 Bit	UR20-4AO-UJ-16-HD	1510690000
4 parameterisable outputs	2-wire, 4-wire	16 Bit with individual channel diagnosis	UR20-4AO-UJ-16-DIAG-HD	1506930000

Pulse width modulation modules

Fieldbus protocol	Connection	Transfer rate	Type	Order No.
2 digital outputs	Push/Pull / Highside (parameterisable)	PWM/0.5 A	UR20-2PWM-0.5A	1315600000
2 digital outputs	Push/Pull / Highside (parameterisable)	PWM/2.0 A	UR20-2PWM-2A	1315610000

Temperature detection and potentiometer modules

Inputs	Sensor connection	Resolution	Type	Order No.
Sensors: J, K, T, B, N, E, R, S, L, U, C, mV				
4 analogue inputs	2-wire	16 Bit with individual channel diagnosis	UR20-4AI-TC-DIAG	1315710000
Sensors: Pt100, 200, 500, 1000; Ni100, 120, 200, 500, 1000; Cu10; resistances from 40 Ω - 4 kΩ				
4 analogue inputs	2-wire, 3-wire, 4-wire	16 Bit with individual channel diagnosis	UR20-4AI-RTD-DIAG	1315700000
4 analogue inputs	3-wire, 3-wire+FE	16 Bit with individual channel diagnosis	UR20-4AI-RS-16-DIAG	2001670000

Counter modules

Outputs	with	Output/Channel	Type	Order No.
1 channel	Latch, gate, reset, digital output	Counter 100 kHz	UR20-1CNT-100-100	1315570000
2 channel	Counter	Counter 100 kHz	UR20-2CNT-100	1315590000
2 channel	Frequency counter	Frequency counter 100 kHz	UR20-2FCNT-100	1508080000
1 channel	Counter, reset	Counter 500 kHz	UR20-1CNT-500	1315580000

Serial interface modules

Interface	Data transmission	Transfer rate	Type	Order No.
1 SSI (Synchronous serial interface)	RS422	125 kHz to 2 MHz parameterised	UR20-1SSI	1508090000
1 RS232 or RS485/422 Interface	RS232, RS485, RS422	300 to 115.200 Bit/s parameterised	UR20-1COM-232-485-422	1315750000
1 SAI-PRO Subbus	IP67 Interface	250 or 500 kBit/s parameterised	UR20-1COM-SAI-PRO	2007430000

Energy measurement modules

Rated voltage	Rated current	Resolution	Type	Order No.
3 x 300 Veff AC (L-N)	3 x 1 A/5 A direct or indirect	16 Bit	UR20-3EM-230V-AC	2007420000

Potential distribution modules

Connections	for	Type	Order No.
16 connections	+ 24 V from input current path	UR20-16AUX-I	1334770000
16 connections	0 V from input current path	UR20-16AUX-GND-I	1334800000
16 connections	+ 24 V from output current path	UR20-16AUX-O	1334780000
16 connections	0 V from output current path	UR20-16AUX-GND-O	1334810000
16 connections	Functional earth	UR20-16AUX-FE	1334790000

Power-feed modules

Supply	Current	Type	Order No.	
of the input current path	10 A	Diagnosis display	UR20-PF-I	1334710000
of the output current path	10 A	Diagnosis display	UR20-PF-O	1334740000

Safe I/O modules

Inputs	Outputs	Protocol	Type	Order No.
Attainable safety standard: category 4, PL _e (acc. to DIN EN ISO 1 3849-1); SIL 3 (acc. to IEC 61508)				
4 digital inputs	4 digital outputs	PROFIsafe	UR20-4DI-4DO-P-FSPS	1335060000
8 digital inputs		PROFIsafe	UR20-8DI-P-FSPS	1335070000
4 digital inputs	4 digital outputs	Fail safe over EtherCAT (FSoE)	UR20-4DI-4DO-P-FSOE	1529780000
8 digital inputs		Fail safe over EtherCAT (FSoE)	UR20-8DI-P-FSOE	1529800000

Safe power-feed modules

Inputs	Outputs	Type	Order No.
Attainable safety standard: category 4, PL _e (acc. to DIN EN ISO 1 3849-1); SIL 3 (acc. to IEC 61508)			
Connection for one emergency stop circuit			
1 digital input	24 V Safe output	UR20-PF-0-1DI-SIL	1335030000
Connection for two emergency stop circuits			
2 digital inputs	24 V Safe output	UR20-PF-0-2DI-SIL	1335050000
Connection for two emergency stop circuits, switch-off following adjustable delay			
2 digital inputs	24 V Safe output, SS1 output	UR20-PF-0-2DI-DELAY-SIL	1335040000

Integrated Safety

* For the HD modules, the HD plug (14683340000) must be ordered separately

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Accessories

Function	Note	Type	Order No.
Termination kit		UR20-EBK-ACC	1346610000
Module marker	Blank	DEK 5/8-11.5 MC NE WS	1341630000
Connection marker for pusher	Blank	PM 2.7/2.6 MC NE WS	1323710000
Swivel marker		UR20-SM-ACC	1339920000
Sign for swivel marker	1 roll = 1,000 labels = 1 PU	THM UR20 GE	1429910000
Sign for swivel marker	1 roll = 1,000 labels = 1 PU	THM UR20 WS	1429420000
Sign for swivel marker	1 roll = 60 labels = 1 PU	ESO UR20 DIN A4 WS	1429430000
Empty slot module		UR20-ES	1315770000
HD plug	Please order HD connector separately. Qty = 8 pcs.	UR20-PG0.35	1469340000
Pressing tool HD plug		PWZ-UR20-HD	1525820000
Connector, 5-pin, 10 ports	Suitable for DeviceNet coupler	BLDZ DN5.08/05/180F GY BX PRT	1919990000
Connector, 5-pin, 5 ports	Suitable for DeviceNet coupler	BLZ DN 5.08/05/180F AU GY BX PRT	1933550000



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IO-Link modules

Channel Type	Sensor/Actuator connection	Output / channel	Type	Order No.
4 Typ A and 4 Typ B Ports, 12 DI's or 8 DO's	M12	0.5 A on type A / 2 A on type B	UR67-PN-HP-8IOL-12-30M	2426250000
4 Typ A and 4 Typ B Ports, 12 DI's or 8 DO's	M12	0.5 A on type A / 2 A on type B	UR67-PN-HP-8IOL-12-60M	2426260000



Multiprotocol modules (PROFINET/EtherNet/IP)

Channel Type	Sensor/Actuator connection	Power supply connection	Type	Order No.
16 digital inputs	M12	M12, L-coded (16 A)	UR67-MP-HP-16DI-12-60M	2426270000
16 digital outputs	M12	M12, L-coded (16 A)	UR67-MP-HP-16DO-12-60M	2426280000
8 digital inputs and 8 digital outputs	M12	M12, L-coded (16 A)	UR67-MP-HP-8DI0-12-60M	2426290000
8 digital inputs and 8 digital outputs	M12	7/8", 5-pole	UR67-MP-78-8DI0-12-60M	2426320000
16 digital inputs	M12	7/8", 5-pole	UR67-MP-78-16DI-12-60M	2426300000
16 digital outputs	M12	7/8", 5-pole	UR67-MP-78-16DO-12-60M	2426310000



PROFIBUS-DP modules

Channel Type	Sensor/Actuator connection	Power supply connection	Type	Order No.
8 digital inputs	M8	M12, 5-pole, A-coded	UR67-PB-12-8DI-8-30K	2426360000
8 universally configurable digital ports	M8	M12, 5-pole, A-coded	UR67-PB-12-8DI0-8-30K	2426330000
16 digital inputs	M12	7/8", 5-pole	UR67-PB-78-16DI-12-60K	2426370000
16 universally configurable digital ports	M12	7/8", 5-pole	UR67-PB-78-16DI0-12-60K	2426340000
16 digital inputs	M12	7/8", 5-pole	UR67-PB-78-16DI-12-60M	2426390000
16 digital outputs	M12	7/8", 5-pole	UR67-PB-78-16DO-12-60M	2426400000
8 digital inputs and 8 digital outputs	M12	7/8", 5-pole	UR67-PB-78-8DI0-12-60M	2426380000



CANopen modules

Channel Type	Sensor/Actuator connection	Power supply connection	Type	Order No.
16 digital inputs and 8 digital outputs, configurable	M8	M12, 5-pole, A-coded	SAI-AU M8 CAN 16DI/8DO	1906690000
16 digital inputs and 8 digital outputs, configurable	M12	M12, 5-pole, A-coded	SAI-AU M12 CAN 16DI/8DO	1906660000
16 digital inputs	M8	M12, 5-pole, A-coded	SAI-AU M8 CAN 16DI	1906680000
16 digital inputs	M12	M12, 5-pole, A-coded	SAI-AU M12 CAN 16DI	1906650000
4 analogue inputs, 2 analogue outputs and 4 digital inputs	M12	M12, 5-pole, A-coded	SAI-AU M12 CAN AI/AO/DI	1906670000



DeviceNet modules

Channel Type	Sensor/Actuator connection	Power supply connection	Type	Order No.
16 digital inputs	M8	M12, 5-pole, A-coded	SAI-AU M8 DN 16DI/8DO	1906730000
16 digital inputs	M12	M12, 5-pole, A-coded	SAI-AU M12 DN 16DI/8DO	1906700000
16 digital inputs and 8 digital outputs, configurable	M8	M12, 5-pole, A-coded	SAI-AU M8 DN 16DI	