UR20-FBC-EC

More performance. Simplified.

u-remote.Weidmuller u-remote – our innovative remote I/O concept with IP 20 which focuses purely on user benefits: tailored planning, faster installation, safer start-up, and no more downtime for considerably improved performance and greater productivity.

Reduce the size of your cabinets with u-remote, thanks to the narrowest modular design on the market and the need for fewer power-feed modules. Our u-remote technology offers tool-free assembly while the modular "sandwich" design and integrated web server speed up installation, both in the cabinet and machine. Status LEDs on the channel and each u-remote module enable reliable diagnosis and rapid service.

Our products boost the availability of your machines and systems, and ensure smooth processes, from planning to operation.

u-remote stands for "More Performance." Simplified.

General ordering data

Version	Remote I/O fieldbus coupler, IP20, Ethernet, EtherCAT
Order No.	1334910000
Type	UR20-FBC-EC
GTIN (EAN)	4050118138283
Qty.	1 items

Weidmüller ⊃⊂

Technical data

Approvals

Approvals	(ABS, Bureau Veritas, CCC, DNV marine, CE, ClassNK, cULus LISTED, cULus LISTED FOR HAZ.LOC. C1D2, ATEX, DNV, IECEx, KOREANCERT KC, KR, LR APPROVED, RINA, UKCA)
ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197
Certificate no. (cULusEX)	E223527

Dimensions and weights

Depth	76 mm	Depth (inches)	2.9921 inch
Height	120 mm	Height (inches)	4.7244 inch
Width	52 mm	Width (inches)	2.0472 inch
Mounting dimension - height	128 mm	Net weight	227 g

Temperatures

Storage temperature	-40 °C ... +85 °C	Operating temperature	-20 °C...60 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cI
REACH SVHC	Lead 7439-92-1, 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol 119-47-1
SCIP	6e2691a1-14ad-497d-95a2-4457373ed84f

Connection data

Wire cross-section, finely stranded, max. (AWG)	AWG 16	Wire cross-section, finely stranded, min. (AWG)	AWG 26
Wire cross-section, solid, max. (AWG)	AWG 16	Wire cross-section, solid, min. (AWG)	AWG 26
Type of connection	PUSH IN	Wire cross-section, solid, max.	1.5 mm²
Wire cross-section, solid, min.	0.14 mm²	Wire connection cross section, finely stranded, max.	1.5 mm²
Wire connection cross section, finely stranded, min.	0.14 mm²		

General data

Vibration resistance	5 Hz ≤ f ≤ 8.4 Hz: 3.5-mm amplitude as per IEC 60068-2-6, 8.4 Hz ≤ f ≤ 150 Hz: 1 g acceleration as per IEC 60068-2-6	UL 94 flammability rating	V-0
Test voltage	500 V	Surge voltage category	II

Creation date 26.11.2025 01:55:47 MEZ

Technical data

Pollution severity	2	Mounting rail	TS 35
Air pressure (operation)	≥ 795 hPa (height ≤ 2000 m) as per DIN EN 61131-2	Air humidity (transport)	10% to 95%, non-condensing as per DIN EN 61131-2
Air pressure (transport)	1013 hPa (height 0 m) to 700 hPa (height 3000 m) as per DIN EN 61131-2	Air pressure (storage)	1013 hPa (height 0 m) to 700 hPa (height 3000 m) as per DIN EN 61131-2
Air humidity (operation)	10% to 95%, non-condensing as per DIN EN 61131-2	Air humidity (storage)	10% to 95%, non-condensing as per DIN EN 61131-2
Shock	15 g over 11 ms, half sinus wave, acc. to IEC 60068-2-27		

Power supply

Supply voltage	24 V DC +20 %/ -15 %, via the system bus	Feed current for the system, max.	4 A
Feed current for IIN (input current path) , max.	10 A	Current consumption from Isys, typ.	130 mA
Supply voltage for outputs	24 V DC +20 %/ -15 %	Supply voltage system and inputs	24 V DC +20 %/ -15 %
Feed current for IOUT (output current path) , max.	10 A		

System data

Module type	Bus coupler	Interface	u-remote system bus
Process data	1024 Byte	max. number of modules	64
Configuration interface	Micro USB 2.0	Connection type	2x RJ45 plug-in connectors
Field bus protocol	EtherCAT	Transmission rate of field bus, max.	100 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s	Parameter data	4 kByte
Diagnostic data	3200 Byte		

Important note

Product information	The matching end brackets are included with the coupler.

Classifications

ETIM 6.0	EC001603	ETIM 7.0	EC001603
ETIM 8.0	EC001603	ETIM 9.0	EC001603
ETIM 10.0	EC001603	ECLASS 9.0	27-24-26-07
ECLASS 9.1	27-24-26-07	ECLASS 10.0	27-24-26-07
ECLASS 11.0	27-24-26-07	ECLASS 12.0	27-24-26-07
ECLASS 13.0	27-24-26-07	ECLASS 14.0	27-24-26-07
ECLASS 15.0	27-24-26-07		

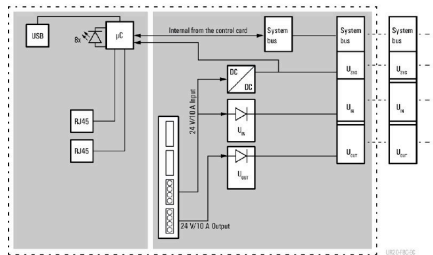### Tender specification sheets

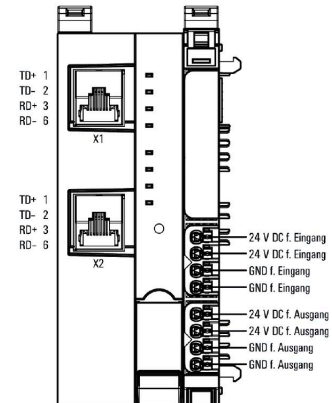|	
Long specification	EtherCAT field bus coupler with integrated 2-port switch, 100 Mbit/s for digital and analogue signals. The field bus coupler recognises the installed modules and uses them to generate a process image. The module sequence is not relevant. The field bus

UR20-FBC-EC

Technical data

coupler is integrated into an application as an EtherCAT I/O device. Connection system: PUSH-IN terminal Transmission medium: Fieldbus transmission rate: 100 Mbit Transmission rate of the u-remote system bus: 48 Mbit Bus interface: 2 x RJ45 Voltage supply: 24 VDC +25% / −15% Feed-in current for system: 4 A Feed-in current for input modules: 10 A Feed-in current for output modules: 10 A Internal current consumption: 130 mA Process data: 8 kByte Parameter data: 1024 bytes Diagnostic data: 1024 bytes Number of I/O points: Number of I/O stations: Number of modules: max. 64 Protocol: EtherCAT Start-up aid: web server Configuration interface: USB Protection degree: IP20 Mounting position: horizontal, vertical with derating - see manual Efficiency of the power supply unit: Potential separation: between system path, input and output paths Current via power contacts: 10 A on input and on output paths Storage temperature: -40°C - +85°C Operating temperature: -20°C - +60°C Relative humidity: 10% - 90%, non-condensing Weight: 220 g Dimensions (WxHxD): 52 mm x 120 mm x 76 mm Approvals: UL, Ex, Brand: Weidmüller Type: UR20-FBC-EC
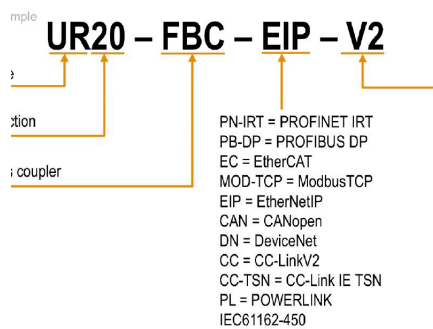
Drawings   5

Block diagram

Connection diagram

Explanation of abbreviations

PN-IRT = PROFINET IRT
PB-DP = PROFIBUS DP
EC = EtherCAT
MOD-TCP = ModbusTCP
EIP = EtherNetIP
CAN = CANopen
DN = DeviceNet
CC = CC-LinkV2
CC-TSN = CC-Link IE TSN
PL = POWERLINK
IEC61162-450

UR20-FBC-EC

Accessories
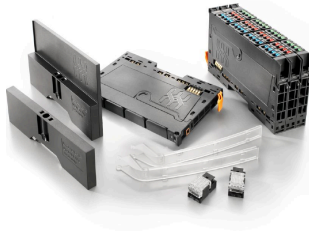
Accessories

System accessory
Discover a wide range of accessories for your u-remote system - the ideal addition to make your applications even more efficient and flexible.

General ordering data

Type	UR20-EBK-ACC	Version	
Order No.	1346610000	End bracket, ,	
GTIN (EAN)	4050118151596		
Qty.	5 ST		
Type	UR20-SM-ACC	Version	
Order No.	1339920000	Cover, ,	
GTIN (EAN)	4050118144727		
Qty.	20 ST		

Blank
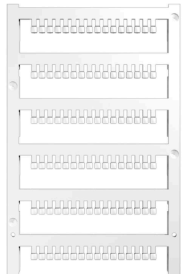
General ordering data

Type	PM 2.7/2.6 MC NE WS	Version	
Order No.	1323710000	OMNIMATE Signal - series PM, Pusher markers, 2.7 x 2.6 mm, Pitch	
GTIN (EAN)	4050118126778	in mm (P): 3.50 Weidmueller, white	
Qty.	960 ST		

Custom printing
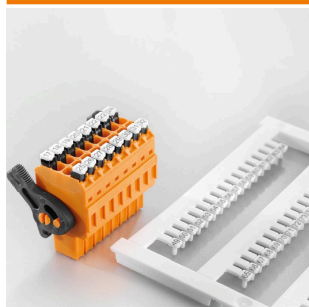
Creation date 26.11.2025 01:55:47 MEZ

UR20-FBC-EC

Accessories

General ordering data

Type	PM 2.7/2.6 MC SDR	Version	
Order No.	1323700000	OMNIMATE Signal - series PM, Pusher markers, 2.7 x 2.6 mm, Pitch	
GTIN (EAN)	4050118126761	in mm (P): 3.50 Weidmueller, To customer specification	
Qty.	192 ST		

Blank

The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	DEK 5/8-11.5 MC NE WS	Version	
Order No.	1341630000	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00	
GTIN (EAN)	4050118145946	Weidmueller, white	
Qty.	500 ST		

Custom printing

The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

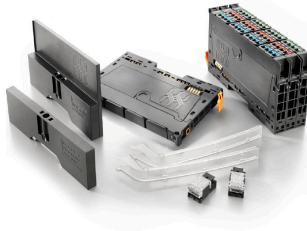| Type	DEK 5/8-11.5 MC SDR	Version	
Order No.	1341610000	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00	
GTIN (EAN)	4050118146059	Weidmueller, To customer specification	
Qty.	100 ST		

Creation date 26.11.2025 01:55:47 MEZ

Weidmüller

Accessories

Accessories

System accessory
Discover a wide range of accessories for your u-remote system - the ideal addition to make your applications even more efficient and flexible.

General ordering data

Type	IE-USB-A-MICRO-1.8M	Version	
Order No.	1487980000	USB cable, USB A, USB Micro, PVC, 1.8 m	
GTIN (EAN)	4050118298451		
Qty.	1 ST		

Crimping tools

Crimping tools for wire end ferrules, with and without plastic collars
• Ratchet guarantees precise crimping
• Release option in the event of incorrect operation

General ordering data

Type	PZ 2.5 S	Version	
Order No.	2903690000	0.14mm², 2.5mm², Trapezoidal crimp	
GTIN (EAN)	4099986027008		
Qty.	1 ST		

Plugkit

General ordering data

Type	UR20-PK-1334910000-SP	Version	
Order No.	1484440000	Replacement part	
GTIN (EAN)	4050118398519		
Qty.	5 ST		

Creation date 26.11.2025 01:55:47 MEZ