UR20-FBC-IEC61162-450

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image

IEC 61162-450

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, 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 also 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.

This and many other amazing ideas boost the availability of your machines and systems. And ensure smooth processes too. From planning to operation.

u-remote stands for "More Performance". Simplified

General ordering data

Version	Remote I/O fieldbus coupler, IP20, Ethernet, IEC 61162-450
Order No.	2661310000
Type	UR20-FBC-IEC61162-450
GTIN (EAN)	4050118690057
Qty.	1 pc(s).

Creation date February 20, 2023 5:19:07 PM CET

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UR20-FBC-IEC61162-450

Technical data

Dimensions and weights

Depth	76 mm		Depth (inches)	2.992 inch
Height	120 mm		Height (inches)	4.724 inch
Width	52 mm		Width (inches)	2.047 inch
Mounting dimension - height	128 mm		Net weight	314 g

Temperatures

Storage temperature	-40 °C … +85 °C		Operating temperature	-20 °C … +60 °C
Operating temperature, min.	-20 °C		Operating temperature, max.	60 °C

Connection data

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

General data

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
Air humidity (transport)	10% to 95%, non-condensing as per DIN EN 61131-2		Air pressure (operation)	≥ 795 hPa (height ≤ 2000 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 pressure (transport)	1013 hPa (height 0 m) to 700 hPa (height 3000 m) as per DIN EN 61131-2
Pollution severity	2		Rail	TS 35
Shock	15 g over 11 ms, half sinus wave, acc. to IEC 60068-2-27		Surge voltage category	II
Test voltage	500 V		UL 94 flammability rating	V-0
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			

Power supply

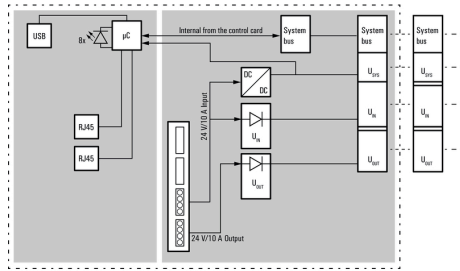|			
Current consumption from I_{sys}, typ.	112 mA		
Feed current for I_{IN} (input current path)	max.	10,000 mA	
	min.	10,000 mA	
	nominal	10,000 mA	
Feed current for I_{IN} (input current path) , max.	10 A		
Feed current for I_{OUT} (output current path)	nominal	10,000 mA	
	min.	10,000 mA	
	max.	10,000 mA	
Feed current for I_{OUT} (output current path) , max.	10 A		
Feed current for the system, max.	4 A		

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Technical data

Supply voltage for outputs	24 V DC +20 %/ -15 %
Supply voltage system and inputs	24 V DC +20 %/ -15 %
Voltage supply	24 V DC +20 %/ -15 %, via the system bus

System data

Configuration interface	Micro USB 2.0	Connection type	2x RJ45 plug-in connectors
Field bus protocol	IEC 61162-450	Interface	u-remote system bus
Module type	Bus coupler	Transmission rate of field bus, max.	100 Mbit/s
Transmission speed of system bus, max.	48 Mbit/s	max. number of modules	64

Classifications

ETIM 6.0	EC001603	ETIM 7.0	EC001603
ETIM 8.0	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

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	98e19a7e-033b-4e68-93e3-c47b30de875e

Approvals

Approvals

ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197

Downloads

Approval/Certificate/Document of Conformity	RINA certificate Bureau Veritas - Type Approval Certificate CCC certificate UKCA Declaration of Conformity - EN CE Declaration of Conformity - DE
Engineering Data	Compatibility information – Combinability of UR20 CAD data – STEP
Software	Library – Language_Pack_UR20_FBC Firmware – Current Firmware file IEC61162-450 coupler Application notes – Use of UR20 Stations above 2000m sea level
User Documentation	MAN_U-REMOTE_DE MAN_U-REMOTE_EN MAN_UR20_WEBSERVER_DE MAN_UR20_WEBSERVER_EN 20211018 Security Advisory – Remote I/O fieldbus couplers (IP20) affected by INFRA:HALT vulnerabilities
Catalogues	Catalogues in PDF-format

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UR20-FBC-IEC61162-450

Drawings

Block diagram

Connection diagram
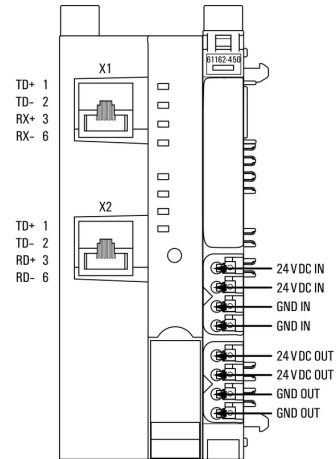
Explanation of abbreviations

Field bus coupler
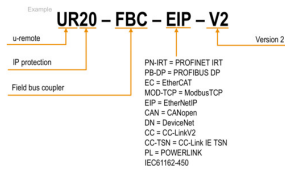
Example **UR20 – FBC – EIP – V2**

u-remote

IP protection

Field bus coupler

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

Version 2

Creation date February 20, 2023 5:19:07 PM CET

Catalogue status 03.02.2023 / We reserve the right to make technical changes.

4

UR20-FBC-IEC61162-450

Accessories

Accessories

Potential-distribution modules; system accessory

A wide range of accessory modules is available for individual requirements of machine and plant engineering. Various potential distribution modules are available for the supply of sensors with 2- to 4-wire connection technology directly from the remote I/O system. These offer 16 "PUSH IN" potential points and supply your application with any 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.

General ordering data

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

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 in	
GTIN (EAN)	4050118126778	mm (P): 3.50 Weidmueller, white	
Qty.	960 pc(s).		

Creation date February 20, 2023 5:19:07 PM CET

UR20-FBC-IEC61162-450

Accessories

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 pc(s).		

Custom printing
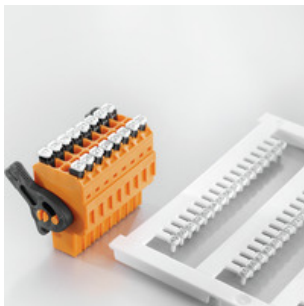
General ordering data

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 in	
GTIN (EAN)	4050118126761	mm (P): 3.50 Weidmueller, To customer specification	
Qty.	192 pc(s).		

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Accessories

Blank

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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 pc(s).		