

UR20-FBC-EC

Weidmüller Interface GmbH & Co. KG

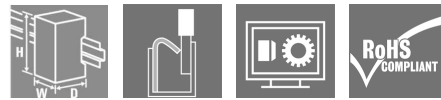
Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image



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, EtherCAT
Order No.	1334910000
Type	UR20-FBC-EC
GTIN (EAN)	4050118138283
Qty.	1 pc(s).

UR20-FBC-EC

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Dimensions and weights

Depth	76 mm	Depth (inches)	2.992 inch
Height	120 mm	Height (inches)	4.724 inch
Mounting dimension - height	128 mm	Net weight	227 g
Weight	247 g	Width	52 mm
Width (inches)	2.047 inch		

Temperatures

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

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
------------	----------------

Connection data

Type of connection	PUSH IN	Wire connection cross section, finely stranded, max.	1.5 mm ²
Wire connection cross-section, finely stranded, min.	0.14 mm ²	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 mm ²
Wire cross-section, solid, max. (AWG)	AWG 16	Wire cross-section, solid, min.	0.14 mm ²
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			
Restricted area	Positive expansion	X coordinate	83.5 mm	
		Z coordinate	85 mm	
		Y coordinate	160 mm	
	Negative expansion	Type of restricted area	thermal	
		Z coordinate	0 mm	
		X coordinate	-28 mm	
		Y coordinate	-40 mm	
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 _N (power segment of the field bus coupler), typ.	130 mA
----------------------------------------------------------------------------------------	--------

UR20-FBC-EC

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Current consumption from I _{IN} (power segment of the fieldbus coupler), typ.	max.	130 mA
	min.	130 mA
	nominal	130 mA
Feed current for I _{IN} (input current path)	max.	10,000 mA
	nominal	10,000 mA
	min.	10,000 mA
Feed current for I _{IN} (input current path), max.	10 A	
Feed current for I _{OUT} (output current path)	min.	10,000 mA
	nominal	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	
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	2 x RJ45 plug-in connectors
Diagnostic data	3,200 Byte	Field bus protocol	EtherCAT
Interface	u-remote system bus	Module type	Bus coupler
Parameter data	4 kByte	Process data	1,024 Byte
Transmission rate of field bus, max.	100 Mbit/s	Transmission speed of system bus, max.	48 Mbit/s
max. number of modules	64 ST		

Classifications

ETIM 6.0	EC001603	ETIM 7.0	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	27242607

UR20-FBC-EC

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

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 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

UR20-FBC-EC

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Technical data

Approvals

Approvals



WATEXIECEX

ROHS	Conform
UL File Number Search	E141197

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity Compass safe distance certificate Lloyds Register certificate DNV/GL certificate ABS certificate RINA certificate Bureau Veritas - Type Approval Certificate PRS (Polish Register of Shipping) NIPPON KAIJI KYOKAI Certificate
Engineering Data	TwinCAT - Version 2 CoDeSys - Version 3 OMRON - Sysmac Studio TwinCAT - Version 3
Engineering Data	EPLAN, WSCAD, Zuken E3.S
Product Change Notification	Release-Notes - ESI Release-Notes - Firmware and Supported modules list
Software	Language Pack UR20_FBC Archiv Firmware files EtherCAT coupler HW1 Current Firmware file EtherCAT coupler HW1 Archiv ESI files EtherCAT coupler HW1 Current ESI file EtherCAT coupler HW1 Archiv Firmware files EtherCAT coupler HW2 Current Firmware file EtherCAT coupler HW2 Archiv ESI files EtherCAT coupler HW2 Current ESI file EtherCAT coupler HW2 USB driver
User Documentation	MAN_U-REMOTE_DE MAN_U-REMOTE_EN MAN_U-REMOTE_FS_DE MAN_U-REMOTE_FS_EN MAN_UR20_WEBSERVER_DE MAN_UR20_WEBSERVER_EN

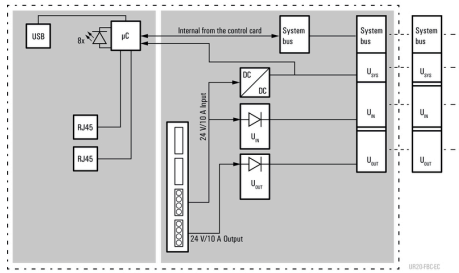
UR20-FBC-EC

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

Drawings

www.weidmueller.com

Block diagram



Connection diagram

