

## UR20-FBC-PB-DP

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

[www.weidmueller.com](http://www.weidmueller.com)



### 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, 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, PROFIBUS DP-V1
Order No.	<a href="#">1334870000</a>
Type	UR20-FBC-PB-DP
GTIN (EAN)	4050118138245
Qty.	1 items
Packaging	Cardboard box
Delivery status	This article will no longer be available in the future.
Available until	2024-02-29T00:00:00+01:00
Alternative product	<a href="#">UR20-FBC-PB-DP-V2</a>

## UR20-FBC-PB-DP

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## Technical data

## Approvals

## Approvals



## ROHS

Conform

## UL File Number Search

[UL Website](#)

## Certificate no. (cULus)

E141197

## Certificate no. (cULusEX)

E223527

## Dimensions and weights

Depth	76 mm
Height	120 mm
Width	52 mm
Mounting dimension - height	128 mm

Depth (inches)	2.9921 inch
Height (inches)	4.7244 inch
Width (inches)	2.0472 inch
Net weight	310 g

## Temperatures

Storage temperature	-40 °C ... +85 °C
Humidity	10...90 %, no condensation

Operating temperature	-20 °C...60 °C
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## Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1, 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol 119-47-1
SCIP	82327f13-cd27-455a-ab5b-a62e1996dcf8

## Connection data

Wire cross-section, finely stranded, max. AWG 16 (AWG)	
Wire cross-section, solid, max. (AWG)	AWG 16
Type of connection	PUSH IN
Wire cross-section, solid, min.	0.14 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	0.14 mm <sup>2</sup>

Wire cross-section, finely stranded, min. AWG 26 (AWG)	
Wire cross-section, solid, min. (AWG)	AWG 26
Wire cross-section, solid, max.	1.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	1.5 mm <sup>2</sup>

## 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
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

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## Technical data

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), 10 A max.		Current consumption from Isys, typ.	100 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
Galvanic isolation	Yes, between field and system bus	Process data	488 Byte
max. number of modules	64	Configuration interface	Micro USB 2.0
Connection type	9-pole SUB-D socket (female)	Field bus protocol	PROFIBUS DP-V1
Transmission rate of field bus, max.	12 Mbit/s	Transmission speed of system bus, max.	48 Mbit/s
Parameter data	244 Byte	Diagnostic data	244 Byte

## Important note

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

ETIM 8.0	EC001603	ETIM 9.0	EC001603
ETIM 10.0	EC001603	ECLASS 14.0	27-24-26-07
ECLASS 15.0	27-24-26-07		

## Tender specification sheets

Long specification	Profibus DP-V1 field bus coupler with integrated Sub-D connection 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 a Profibus I/O device. Corresponding GSD files are available from <a href="http://www.Weidmueller.de">www.Weidmueller.de</a> . Connection system: PUSH-IN terminal Field bus transmission rate: 12 Mbit
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[www.weidmueller.com](http://www.weidmueller.com)**Technical data**

Transmission rate of the u-remote system bus :  
48 Mbit Bus interface:  
Sub-D 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: 100 mA Process data: 488 bytes Parameter data: 244 bytes Diagnostic data: 244 bytes Number of I/O points: Number of I/O stations: Number of modules: Max. 64 Protocol: Profibus DP-V1 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 path 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-PB-DP

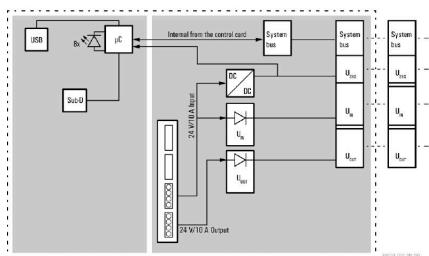
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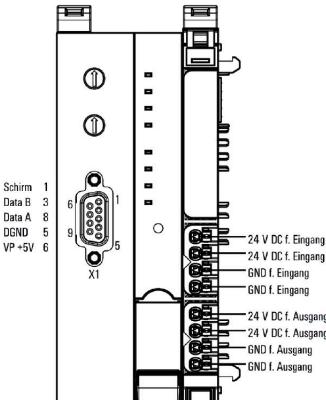
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## Drawings

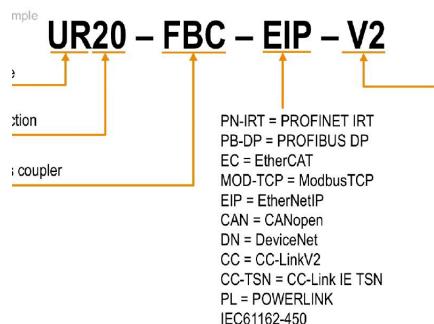
## Block diagram



## Connection diagram



## Explanation of abbreviations



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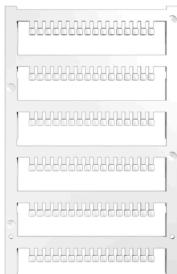
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**Accessories****System accessory**

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.	<a href="#">1346610000</a>	End bracket, ,
GTIN (EAN)	4050118151596	
Qty.	5 ST	
Type	UR20-SM-ACC	Version
Order No.	<a href="#">1339920000</a>	Cover, ,
GTIN (EAN)	4050118144727	
Qty.	20 ST	

**Blank****General ordering data**

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

**Custom printing**

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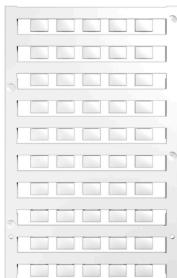
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## Accessories

## General ordering data

Type	PM 2.7/2.6 MC SDR	Version
Order No.	<a href="#">1323700000</a>	OMNIMATE Signal - series PM, Pusher markers, 2.7 x 2.6 mm, Pitch
GTIN (EAN)	4050118126761	in mm (P): 3.50 Weidmüller, 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.	<a href="#">1341630000</a>	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00
GTIN (EAN)	4050118145946	Weidmüller, 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.

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- 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.	<a href="#">1341610000</a>	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00
GTIN (EAN)	4050118146059	Weidmüller, To customer specification
Qty.	100 ST	

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### System accessory

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### General ordering data

Type	IE-USB-A-MICRO-1.8M	Version
Order No.	<a href="#">1487980000</a>	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.	<a href="#">2903690000</a>	0.14mm <sup>2</sup> , 2.5mm <sup>2</sup> , Trapezoidal crimp
GTIN (EAN)	4099986027008	
Qty.	1 ST	