

#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold

Germany

Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com

### **Product image**











# 2- or 4-wire connection; 16-bit resolution; 4 outputs

The analogue output module controls up to 4 analogue actuators with +/-10 V, +/-5 V, 0...10 V, 0...5 V, 2...10 V, 1...5 V, 0...20 mA or 4...20 mA with an accuracy of 0.05% of the measurement-range end value. An actuator with 2-, 3- or 4-wire technology can be connected to each plug-in connector. The measurement range is defined channel-by-channel using parameterisation. In addition, each channel has its own status LED.

The outputs are supplied from the output current path  $(U_{\text{OUT}})$ .

#### General ordering data

Delivery status	This article will no longer be available in the future.
Available until	2021-12-31
Туре	UR20-4A0-UI-16-HD
Order No.	<u>1510690000</u>
Version	Remote I/O module, IP20, Analog signals, Output, Current/Voltage, 4-channel
	Currenty Voltage, 4-Chamilei
GTIN (EAN)	4050118319675
Qty.	1 pc(s).
Alternative product	<u>1315680000</u>



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# **Technical data**

### **Dimensions and weights**

Width	11.5 mm	Width (inches)	0.453 inch
Height	120 mm	Height (inches)	4.724 inch
Depth	76 mm	Depth (inches)	2.992 inch
Mounting dimension - height	128 mm	Net weight	72 g

#### **Temperatures**

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

#### **Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1

### analogue outputs

Accuracy	±0,1 % FSR max., 0,05 % FSR typ.	Actuator connection	2-wire (current and voltage), 3- and 4- wire (voltage), 2-wire (automatic detection)
Cross-talk between the channels	0 % FSR	Individual channel diagnosis	No
Load impedance current	< 600 Ω	Max. error between T min. and T max.	220 ppm FSR
Module diagnosis	Yes	Monotonicity	Yes
Number of analogue outputs	4	Output variable	Voltage (05 V, 010 V, 15 V, 210 V, ±10 V, ±5 V), Current (020 mA or 420 mA)
Repeat accuracy	< 1 mV eff.	Resolution	16 Bit
Response time	1 ms / 4 channels	Short-circuit-proof	Yes
Standing wave ratio	0 %	Temperature coefficient	20 ppm voltage / 31 ppm current measurement / °K
Туре	1. U (05 V, 010 V, 15 V, 210 V, ±10 V), 2. I (0- 20 mA or 4-20 mA)	load impedance voltage	> 1 kΩ (at >50 °C ambient temperature, max. total sensor current = 25 mA)

### **Connection data**

Wire connection cross section, fine	ly	Wire connection cross-section, finely		
stranded, max.	0.35 mm <sup>2</sup>	stranded, min.	0.14 mm <sup>2</sup>	
Wire cross-section, finely stranded, max.		Wire cross-section, finely stranded, min.		
(AWG)	AWG 22	(AWG)	AWG 26	
Wire cross-section, solid, max.	0.35 mm <sup>2</sup>	Wire cross-section, solid, max. (AWG)	AWG 22	
Wire cross-section, solid, min.	0.14 mm <sup>2</sup>	Wire cross-section, solid, min. (AWG)	AWG 26	



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# **Technical data**

#### **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	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 <sub>IN</sub> (power		Current consumption from I <sub>OUT</sub> (the	
segment of the field bus coupler), typ.	8 mA	respective power segment)	85 mA
Voltage supply	24 V DC +20 %/ -15 %,		

#### System data

Field bus protocol	CANopen, DeviceNet, EtherCAT, EtherNet/IP, Modbus/TCP, PROFINET IRT, PROFIBUS DP-V1, POWERLINK	Galvanic isolation	500 V DC between the current paths
Interface	u-remote system bus	Module type	Analogue output module
Transmission speed of system	n bus, max. 48 Mbit		

## Classifications

ETIM 6.0	EC001597	ETIM 7.0	EC001597
eClass 9.0	27-24-26-02	eClass 9.1	27-24-26-02
eClass 10.0	27-24-26-02		

## **Product information**

Product information	Note: Please order connector (1469340000) separately

#### **Approvals**

Approvals







ROHS Conform



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# **Technical data**

#### **Downloads**

Approval/Certificate/Document of	
Conformity	Declaration_of_Conformity
Engineering Data	EPLAN, WSCAD, Zuken E3.S
Engineering Data	<u>STEP</u>
Product Change Notification	Release-Notes - Firmware
Software	Archiv_Firmware_UR20-4A0_UI 4A0_UI-0002151-01_02_00-4
User Documentation	MAN_U-REMOTE_DE MAN_U-REMOTE_EN



### Weidmüller Interface GmbH & Co. KG

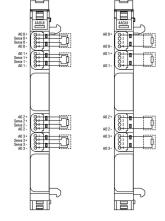
Klingenbergstraße 26 D-32758 Detmold

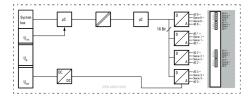
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# **Drawings**

## Block diagram Connection diagram





#### **Miscellaneous**



Note: Please order connector separately



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## **Accessories**

#### **Blank**



Weidmüller has established new market standards with its MultiCard product line. This system is being continually extended with over 200 variants and by consistently extending the portfolio.

**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 PM 2.7/2.6 MC NE WS Order No. 1323710000

GTIN (EAN) 4050118126778

Qty. 960 pc(s).

Version

OMNIMATE Signal - series PM, Pusher markers, 2.7 x 2.6 mm, Pitch in

mm (P): 3.50 Weidmueller, white

#### **Tools**



- Stripping tools with automatic self-adjustment
- For flexible and solid conductors
- Ideally suitable for mechanical and plant engineering, railway and rail traffic, wind energy, robot technology, explosion protection as well as marine, offshore and ship building sectors
- Stripping length adjustable via end stop
- Automatic opening of clamping jaws after stripping
- No fanning-out of individual conductors
- · Adjustable to diverse insulation thicknesses
- Double-insulated cables in two process steps without special adjustment
- · No play in self-adjusting cutting unit
- Long service life
- · Optimised ergonomic design

### **General ordering data**

Type STRIPAX ULTIMATE
Order No. 1468880000
GTIN (EAN) 4050118274158
Oty. 1 pc(s).

Version

Tools, Stripping and cutting tool, Flexible and solid conductors with

halogen-free insulation, 6mm<sup>2</sup>, 25mm



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## **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**

Туре	UR20-EBK-ACC	Version	
Order No.	<u>1346610000</u>	End bracket, ,	
GTIN (EAN)	4050118151596		
Qty.	5 pc(s).		
Туре	KOSM BHZ5.00	Version	Product data
Order No.	1483050000	PCB plug-in connector, Accessories, Coding element, orange	
GTIN (EAN)	4050118292039		
Qty.	100 pc(s).		
Туре	UR20-PG0.35	Version	
Order No.	1469340000	Connecting plug	
GTIN (EAN)	4050118275339		
Qty.	8 pc(s).		
Туре	PWZ-UR20-HD		
Order No.	<u>1525820000</u>		
GTIN (EAN)	4050118347067		
Qty.	1 pc(s).		
Туре	UR20-SM-ACC	Version	
Order No.	1339920000	Cover, ,	
GTIN (EAN)	4050118144727		
Qty.	20 pc(s).		



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## **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**

ype DEK 5/8-11.5 MC SDR

Order No. <u>1341610000</u>

4050118146059

Qty. 100 pc(s).

GTIN (EAN)

Version

Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00

Weidmueller, To customer specification

#### **Custom printing**



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#### General ordering data

Type PM 2.7/2.6 MC SDR

Order No. 1323700000

GTIN (EAN) 4050118126761

Oty. 192 pc(s).

Version

OMNIMATE Signal - series PM, Pusher markers, 2.7 x 2.6 mm, Pitch in

mm (P): 3.50 Weidmueller, To customer specification



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# Accessories

### **TS 35**



### **General ordering data**

Туре	TS 35X7.5/LL 2M/ST/SZ	Version
Order No.	<u>7915060000</u>	Rail, TS 35, TS 35 x 7.5, with slot, Steel, galvanic zinc plated and
GTIN (EAN)	4032248296279	passivated
Qty.	2 m	
Туре	TS 35X7.5 2M/ST/ZN	Version
Order No.	0383400000	Rail, TS 35, TS 35 x 7.5, without slot, Steel, galvanic zinc plated and
GTIN (EAN)	4008190088026	passivated
Qty.	2 m	
Туре	TS 35X7.5/LL 2M/ST/ZN	Version
Order No.	<u>0514500000</u>	Rail, TS 35, TS 35 x 7.5, with slot, Steel, galvanic zinc plated and
GTIN (EAN)	4008190046019	passivated
Qty.	2 m	
Туре	TS 35X7.5/LL 1M/ST/ZN	Version
Order No.	<u>0514510000</u>	Rail, TS 35, TS 35 x 7.5, with slot, Steel, galvanic zinc plated and
GTIN (EAN)	4008190116620	passivated
Qty.	1 m	
Туре	TS 35X7.5 2M/CRN	Version
Order No.	<u>1747350000</u>	Rail, TS 35, TS 35 x 7.5, without slot, Stainless steel, rust-proof,
GTIN (EAN)	4032248003372	untreated
Qty.	2 m	
Туре	TS 35X7.5 2M/AL/BK	Version
Order No.	0330800000	Rail, TS 35, TS 35 x 7.5, without slot, Aluminium, untreated
GTIN (EAN)	4008190100650	
Qty.	2 m	



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## **Accessories**

#### **Tools**



- For flexible and solid conductors with special insulating materials
- High-quality stripping for industrial applications (complies with aircraft industry requirements)
- Specially shaped blades enable stripping of special types of insulation and conductor configurations
- · Stripping length adjustable via end stop
- Very versatile thanks to interchangeable stripping units
- Stripping results reproduced accurately over and over again
- No damage to the conductor
- · A long-lasting, reliable tool thanks to its sturdy design
- · Integrated cutting function

#### **General ordering data**

Type MULTI-STRIPAX 6-16
Order No. 9202210000
GTIN (EAN) 4032248486144
Oty. 1 pc(s).

Version

Tools, Stripping and cutting tool, Flexible and solid conductors with

PVC insulation, 16mm<sup>2</sup>

#### **Blank**



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- Large range of ready-to-use markers
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- · Available as blank MultiCard or with standard printing

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#### **General ordering data**

Type DEK 5/8-11.5 MC NE WS
Order No. <u>1341630000</u>
GTIN (EAN) 4050118145946

500 pc(s).

Version

Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00

Weidmueller, white

Qty.