

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image











Digital output modules P- or N-switching; short-circuit-proof; up to 3-wire + FE

Digital output modules are available in the following variants: 4 DO, 8 DO with 2- and 3-wire technology, 16 DO with or without PLC interface connection. They are mainly used for the incorporation of decentralised actuators. All outputs are designed for DC-13 actuators acc. to DIN EN 60947-5-1 and IEC 61131-2 specifications. As with the digital input modules, frequencies of up to 1 kHz are possible. Protection of the outputs ensures maximum system safety. This consists of an automatic restart following a short-circuit. Clearly visible LEDs signal the status of the entire module as well as the status of individual channels.

In addition to the standard applications of the digital output modules, the range also includes special variants such as the 4RO-SSR module for rapidly switching applications. Fitted with solid state technology, 0.5 A is available here to each output. Furthermore, there is also the 4RO-CO relay module for power-intensive applications. It equipped with four CO contacts, optimised for a switching voltage of 255 V UC and designed for a switching current of 5 A.

The module electronics supply the connected actuators from the output current path (U_{OUT}) .

Version	Remote I/O module, IP20, Digital signals, Output, Relay
Order No.	<u>1315550000</u>
Туре	UR20-4RO-CO-255
GTIN (EAN)	4050118118490
Qty.	1 pc(s).
Replacement parts	<u>1350930000</u> <u>1346500000</u> <u>1347130000</u>



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Technical data

Dimensions and weights

Depth	76 mm	Depth (inches)	2.992 inch
Height	120 mm	Height (inches)	4.724 inch
Width	11.5 mm	Width (inches)	0.453 inch
Mounting dimension - height	128 mm	Net weight	119 g

Temperatures

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

digital outputs

> 55°C / 80% @ 60°C	
Yes	
No	
20 ms	
20 ms	
5 Hz	
Yes	
4	
min.	0 mA
nominal	0 mA
max.	0 mA
6 A	
24 A	
No	
min.	0 %
nominal	0 %
max.	0 %
255 V AC, UL: 277 V AC, DC	
CO contact	
	Yes No 20 ms 20 ms 5 Hz Yes 4 min. nominal max. 6 A 24 A No min. nominal max. 255 V AC, UL: 277 V AC, DC

Connection data

Number	4	Type of connection	PUSH IN
Wire connection cross section, fine	ly	Wire connection cross section, finely	
stranded, max.	1.5 mm²	stranded, min.	0.14 mm ²
Wire cross-section, finely stranded, max.		Wire cross-section, finely stranded, mir	1.
(AWG)	AWG 16	(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



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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 valte as	500 V	III 04 flamene abilita sections	V-0
Test voltage		UL 94 flammability rating	ν-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 _{OUT} (the		Current consumption from I _{sys} , typ.	
respective power segment)	< 15 mA	, 8 mA	
Voltage supply	24 V DC +20 %/ -15 %, via the system bus		

System data

Connection type	PUSH IN	Diagnostic data	1 Bit
Field bus protocol	PROFINET IRT, PROFINET RT, PROFIBUS DP-V1, EtherCAT, Modbus/TCP, EtherNet/IP, CANopen, DeviceNet, POWERLINK, CC-Link, CC-Link IE TSN, IEC 61162-450	Galvanic isolation	500 V DC between the current paths
Interface	u-remote system bus	Module type	Digital output module
Possible connection	Single-conductor, 2-wire	Process data	4 Bit

Classifications

ETIM 6.0	EC001599	ETIM 7.0	EC001599
ETIM 8.0	EC001599	ECLASS 9.0	27-24-26-04
ECLASS 9.1	27-24-26-04	ECLASS 10.0	27-24-26-04
ECLASS 11.0	27-24-26-04	ECLASS 12.0	27-24-26-04

Environmental Product Compliance

REACH SVHC Lead 7439 SCIP 82327f13-	92-1
SCIP 82327f13-	
30II 02327113-	cd27-455a-ab5b-a62e1996dcf8



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Technical data

Approvals

Approvals















ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197
Certificate no. (cULusEX)	E223527

Downloads

Approval/Certificate/Document of	Compass safe distance certificate
Conformity	Lloyds Register certificate
	DNV/GL certificate
	ABS certificate
	RINA certificate
	Bureau Veritas - Type Approval Certificate
	PRS (Polish Register of Shipping)
	NIPPON KAIJI KYOKAI Certificate
	DEMKO15ATEX1525X
	CCC certificate
	UKCA Declaration of Conformity - EN
	CE Declaration of Conformity - DE
Engineering Data	CAD data – STEP
	Compatibility information – Combinability of UR20
Engineering Data	WSCAD, Zuken E3.S
User Documentation	MAN_U-REMOTE_DE
	MAN_U-REMOTE_EN
Catalogues	Catalogues in PDF-format



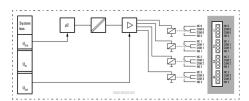
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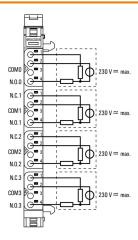
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Drawings

Block diagram

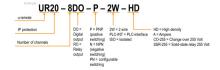


Connection diagram



Explanation of abbreviations

Digital output modules





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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-SM-ACC	Version
Order No.	<u>1339920000</u>	Cover, ,
GTIN (EAN)	4050118144727	
Qty.	20 pc(s).	
Туре	UR20-EBK-ACC	Version
. ,	UNZU-EBR-ACC	version
Order No.	<u>1346610000</u>	End bracket, ,

Stainless steel



Stainless steel is a collective term for all types of steel (alloys) with a high degree of purity and corrosion resistance.

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	Stainless steel 1.4301, untreated
Qty.	2 m	



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Accessories

Blank



General ordering data

Type PM 2.7/2.6 MC NE WS

Order No. <u>1323710000</u>

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

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

100 pc(s).

Qty.

Type DEK 5/8-11.5 MC SDR

Order No. 1341610000

GTIN (EAN) 4050118146059

Version

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

Weidmueller, To customer specification



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Accessories

Custom printing



General ordering data

Туре PM 2.7/2.6 MC SDR Order No. 1323700000

GTIN (EAN) 4050118126761

192 pc(s). Qty.

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

mm (P): 3.50 Weidmueller, To customer specification

Aluminum



Aluminum has the second best electrical conductivity after copper. One advantage is low weight, anMiscellaneous is outstanding corrosion protection.

General ordering data

TS 35X7.5 2M/AL/BK Туре 0330800000

Order No. GTIN (EAN) 4008190100650

Qty. 2 m Version

Rail, TS 35, TS 35 x 7.5, without slot, Aluminium, untreated



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Accessories

Steel



Steel DIN rails are the most widespread on the market. Among metal DIN rails, they have the lowest shortcircuit protection, similar to stainless steel.

Туре	TS 35X7.5/LL 2M/ST/ZN	Version
Order No.	0514500000	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.	0514510000	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/LL 2M/ST/SZ	Version
Type	15 35X7.5/LL 21VI/51/52	version
Order No.	7915060000	Rail, TS 35, TS 35 x 7.5, with slot, Steel, galvanic zinc plated and
	, , ,	
Order No.	7915060000	Rail, TS 35, TS 35 x 7.5, with slot, Steel, galvanic zinc plated and
Order No. GTIN (EAN)	7915060000 4032248296279	Rail, TS 35, TS 35 x 7.5, with slot, Steel, galvanic zinc plated and
Order No. GTIN (EAN) Qty.	7915060000 4032248296279 2 m	Rail, TS 35, TS 35 x 7.5, with slot, Steel, galvanic zinc plated and passivated
Order No. GTIN (EAN) Oty. Type	7915060000 4032248296279 2 m TS 35X7.5 2M/ST/ZN	Rail, TS 35, TS 35 x 7.5, with slot, Steel, galvanic zinc plated and passivated Version



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Accessorie<u>s</u>

Blank



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General ordering data

ype 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).



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Replacement parts

Electronic modules



General ordering data

Туре UR20-EM-1315550000-SP

Order No. 1347130000

GTIN (EAN) 4050118248401

Qty. 1 pc(s).

Replacement part, ,

Plugkit



General ordering data

UR20-PK-1315550000-SP Туре

Order No. 1346500000

GTIN (EAN) 4050118151251

5 pc(s).

Version

Replacement part, Plug-in connector,,



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Replacement parts

Basic modules



Туре	UR20-BM-SP	Version	Packaging
Order No.	<u>1350930000</u>	Replacement part, , Flange-mounted housing	Cardboard
GTIN (EAN)	4050118402735		box
Qty.	5 pc(s).		