UR20-16DO-N-PLC-INT

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 (UOUT).

General ordering data

Version	Remote I/O module, IP20, Digital signals, Output, PLC
Order No.	1315450000
Type	UR20-16DO-N-PLC-INT
GTIN (EAN)	4050118118452
Qty.	1 items

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Weidmüller

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	Depth (inches)	2.9921 inch
Height	120 mm	Height (inches)	4.7244 inch
Width	11.5 mm	Width (inches)	0.4528 inch
Mounting dimension - height	128 mm	Net weight	87 g

Temperatures

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

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption	
RoHS Exemption (if applicable/known)	7a, 7cI	
REACH SVHC	Lead 7439-92-1, Diboron trioxide 1303-86-2, Lead monoxide 1317-36-8	
SCIP	b5ed5bad-cbfe-4ad3-903c-fc3d1093a415	
Product Carbon Footprint	Cradle to gate	8,028 kg CO_2 eq.

digital outputs

Short-circuit-proof	Yes (thermal cut-out)	
Leakage current	<0.1 mA	
Number of digital outputs	16	
Type	Lamp load, Ohmic, Inductive	
Feedback-free	Yes	
Max. response time, low	250 µs	
Resistive load (min. 47 Ω)	1 kHz	
Output current per channel, max.	500 mA	
Module diagnosis	Yes	
Individual channel diagnosis	No	
Output current as per application	min.	0 A
	nominal	0 A
	max.	0 A
Output current per module, remark	2 A with supply via a flat ribbon cable	
Max. response time, high	100 µs	
Switch-off energy (inductive)	<150 mJ / channel	
Response time of the protective circuit (current limiting)	<100µs	
Actuator connection	PLC-Interface	
Lamp load (12 W)	10 Hz	
Inductive load (DC13)	0.2 Hz	

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Technical data

Output current per module, max.	8000 mA		

Connection data

Wire cross-section, finely stranded, max. (AWG)	AWG 16	Wire cross-section, finely stranded, min. (AWG)	AWG 26
Wire cross-section, solid, max. (AWG)	AWG 16	Wire cross-section, solid, min. (AWG)	AWG 26
Type of connection	PUSH IN	Wire cross-section, solid, max.	1.5 mm²
Wire cross-section, solid, min.	0.14 mm²	Wire connection cross section, finely stranded, max.	1.5 mm²
Wire connection cross section, finely stranded, min.	0.14 mm²	I/O plug-in connector	20-pin ribbon cable connection

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
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	Current consumption from Isys, typ.	8 mA
Current consumption from IOUT (the respective power segment)	30 mA		

System data

Module type	Special module	Interface	u-remote system bus
Galvanic isolation	500 V DC between the current paths	Process data	2 Byte
Connection type	PUSH IN	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
Transmission speed of system bus, max.	48 MBit/s	Diagnostic data	1 Bit

Classifications

ETIM 8.0	EC001599	ETIM 9.0	EC001599
ETIM 10.0	EC001599	ECLASS 14.0	27-24-26-04
ECLASS 15.0	27-24-26-04		

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Drawings

Block diagram
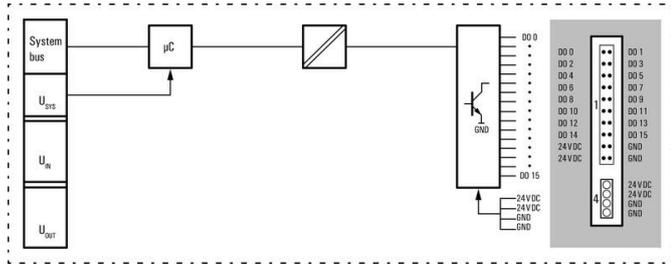
Connection diagram
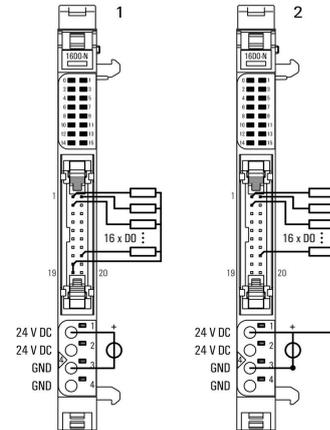
Explanation of abbreviations

Digital output modules
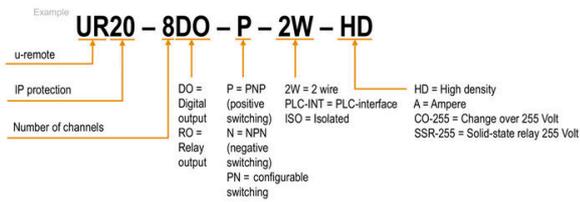
Example	**UR20 – 8DO – P – 2W – HD**			
u-remote				
IP protection	DO = Digital output	P = PNP (positive switching)	2W = 2 wire	HD = High density
Number of channels	RO = Relay output	N = NPN (negative switching)	PLC-INT = PLC-interface	A = Ampere
		PN = configurable switching	ISO = Isolated	CO-255 = Change over 255 Volt
				SSR-255 = Solid-state relay 255 Volt

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Accessories

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

Blank
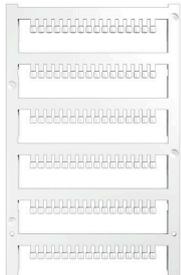
General ordering data

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

Custom printing

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Accessories

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	
GTIN (EAN)	4050118126761	in mm (P): 3.50 Weidmueller, To customer specification	
Qty.	192 ST		
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 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.	1341630000	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00	
GTIN (EAN)	4050118145946	Weidmueller, white	
Qty.	500 ST		

Aluminum

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

General ordering data

Type	TS 35X7.5 2M/AL/BK	Version	
Order No.	0330800000	Terminal rail, Accessories, Aluminium, untreated, Width: 2000 mm,	
GTIN (EAN)	4008190100650	Height: 35 mm, Depth: 7.5 mm	
Qty.	40 M		

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Accessories

Stainless steel

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

General ordering data

Type	TS 35X7.5 2M/CRN	Version	
Order No.	1747350000	Terminal rail, Accessories, Stainless steel 1.4301, untreated, Width:	
GTIN (EAN)	4032248003372	2000 mm, Height: 35 mm, Depth: 7.5 mm	
Qty.	40 M		

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.

General ordering data

Type	TS 35X7.5 2M/ST/ZN	Version	
Order No.	0383400000	Terminal rail, Accessories, Steel, galvanic zinc plated and passivated,	
GTIN (EAN)	4008190088026	Width: 2000 mm, Height: 35 mm, Depth: 7.5 mm	
Qty.	40 M		
Type	TS 35X7.5/LL 2M/ST/ZN	Version	
Order No.	0514500000	Terminal rail, Accessories, Steel, galvanic zinc plated and passivated,	
GTIN (EAN)	4008190046019	Width: 2000 mm, Height: 35 mm, Depth: 7.5 mm	
Qty.	40 M		
Type	TS 35X7.5/LL 1M/ST/ZN	Version	
Order No.	0514510000	Terminal rail, Accessories, Steel, galvanic zinc plated and passivated,	
GTIN (EAN)	4008190116620	Width: 1000 mm, Height: 35 mm, Depth: 7.5 mm	
Qty.	20 M		
Type	TS 35X7.5/LL 2M/ST/SZ	Version	
Order No.	7915060000	Terminal rail, Accessories, Steel, galvanic zinc plated and passivated,	
GTIN (EAN)	4032248296279	Width: 2000 mm, Height: 35 mm, Depth: 7.5 mm	
Qty.	40 M		

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Accessories

Ribbon cable, not halogen-free

General ordering data

Type	PAC-UNIV-HE20-LCH-1M	Version	
Order No.	7789306010	Pre-assembled cable, PAC, Cable LiYY, 0.14 mm²	
GTIN (EAN)	8430243969062		
Qty.	1 ST		
Type	PAC-UNIV-HE20-F-1M	Version	
Order No.	1349790010	Pre-assembled cable, PAC	
GTIN (EAN)	4032248161003		
Qty.	1 ST		
Type	PAC-UNIV-HE20-HE20-1M	Version	
Order No.	1349670010	Pre-assembled cable, PAC	
GTIN (EAN)	4032248161294		
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.	2903690000	0.14mm², 2.5mm², Trapezoidal crimp
GTIN (EAN)	4099986027008	
Qty.	1 ST	

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Accessories

Basic modules

General ordering data

Type	UR20-BM-SP	Version	
Order No.	1350930000	Replacement part, , Flange-mounted housing	
GTIN (EAN)	4050118402735		
Qty.	5 ST		

Electronic modules

General ordering data

Type	UR20-EM-1315450000-SP	Version	
Order No.	1346990000	Replacement part	
GTIN (EAN)	4050118151299		
Qty.	1 ST		

Plugkit

General ordering data

Type	UR20-PK-1315450000-SP	Version	
Order No.	2000540000	Replacement part	
GTIN (EAN)	4050118382327		
Qty.	5 ST		

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