Remote-I/O - u-remote
UR20-8DO-P

Weidmüller Interface GmbH & Co. KG
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Positively-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}).

General ordering data

Type	UR20-8DO-P
Order No.	1315240000
Version	Remote I/O module, IP 20, Digital signals, Output, 8-channel
GTIN (EAN)	4050118118247

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Technical data

Dimensions and weights

Width	11.5 mm	Height	120 mm
Depth	76 mm	Mounting dimension - height	128 mm
Weight	87 g	Net weight	87 g

Temperatures

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

digital outputs

Actuator connection	Dual conductor	Feedback-free	Yes
Individual channel diagnosis	No	Inductive load (DC13)	2 Hz
Lamp load (12 W)	1 kHz	Max. output current per channel	500 mA
Max. output current per module	4,000 mA	Max. response time, high	100 µs
Max. response time, low	250 µs	Module diagnosis	Yes
Number	8	Resistive load (min. 47 Ω)	1 kHz
Response time of the protective circuit (current limiting)	< 100µs	Short-circuit-proof	Yes (thermal cut-out)
Switch-off energy (inductive)	< 150 mJ / channel	Type	Lamp load, Ohmic, Inductive

Connection data

Type of connection	PUSH IN	Wire connection cross section, finely stranded, max.	1.5 mm²
Wire connection cross-section, finely stranded, min.	0.14 mm²	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 mm²
Wire cross-section, solid, max. (AWG)	AWG 16	Wire cross-section, solid, min.	0.14 mm²
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	Shock	25 g over 6 ms, half sine wave, 1000 shocks per axis and direction as per IEC 60068-2-27
Surge voltage category	II	Test voltage	500 V
UL 94 flammability rating	V-0	Vibration-proof	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

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Power supply

Current consumption from I_{IN} (power segment of the field bus coupler), typ. [mA]	8 mA	Current consumption from I_{OUT} (the respective power segment) [mA]	15 mA + load
Supply voltage	24 V DC +20%/ -15%, via the system bus		

System data

Diagnostic data	1 Bit	Galvanic isolation	500 V DC between the current paths
Interface	u-remote system bus	Module type	Digital output module
Process data	1 Byte	Transmission speed of system bus, max.	48 Mbit

Classifications

eClass 6.2	27-24-26-04

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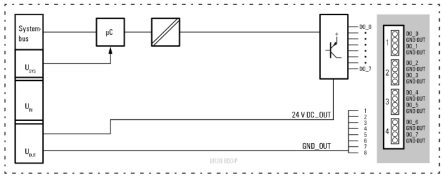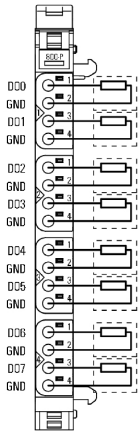
Drawings