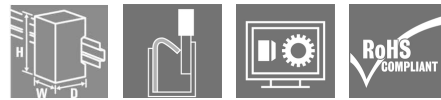


Automation Products - u-remote IP20 UR20-8DO-P-2W-HD

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
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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}).

General ordering data

Type	UR20-8DO-P-2W-HD
Order No.	1509830000
Version	Remote I/O module, IP20, Digital signals, Output, 8-channel
GTIN (EAN)	4050118318487

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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	66 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
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digital outputs

Actuator connection	2-wire	Feedback-free	Yes
Individual channel diagnosis	No	Inductive load (DC13)	0.2 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	50 µs
Max. response time, low	100 µs	Module diagnosis	Yes
Number of digital outputs	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

Wire connection cross section, finely stranded, max.	0.35 mm ²	Wire connection cross-section, finely stranded, min.	0.14 mm ²
Wire cross-section, finely stranded, max. (AWG)	AWG 22	Wire cross-section, finely stranded, min. (AWG)	AWG 26
Wire cross-section, solid, max.	0.35 mm ²	Wire cross-section, solid, max. (AWG)	AWG 22
Wire cross-section, solid, min.	0.14 mm ²	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	15 g over 11 ms, half sinus wave, acc. to IEC 60068-2-27
Surge voltage category	II	Test voltage	500 V
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		

Creation date May 27, 2019 3:48:37 PM CEST

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Technical data**Power supply**

Current consumption from I_{IN} (power segment of the field bus coupler), typ.	8 mA	Current consumption from I_{OUT} (the respective power segment)	40 mA
Voltage supply	24 V DC +20%/-15%, via the system bus		

System data

Diagnostic data	1 Bit	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	Digital output module	Possible connection	2-wire
Process data	1 Byte	Transmission speed of system bus, max.	48 Mbit

Classifications

ETIM 5.0	EC001599	ETIM 6.0	EC001597
eClass 6.2	27-24-26-04	eClass 7.1	27-24-26-04
eClass 8.1	27-24-26-04	eClass 9.0	27-24-26-02
eClass 9.1	27-24-26-02		

Approvals

Approvals



ROHS	Conform
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Downloads

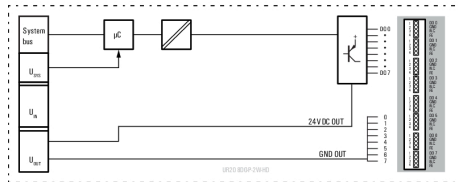
Approval/Certificate/Document of Conformity	Declaration of Conformity DNV/GL certificate
Brochure/Catalogue	CAT U_REMOTE 16/17 EN
Engineering Data	EPLAN_WSCAD_Zuken E3.S
Engineering Data	STEP
User Documentation	MAN_U-REMOTE_DE MAN_U-REMOTE_EN

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Drawings

Block diagram



Connection diagram

