

UR20-4DO-PN-2A

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



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 is 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, 4-channel, Digital signals, Output
Order No.	1394420000
Type	UR20-4DO-PN-2A
GTIN (EAN)	4050118195408
Qty.	1 items

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Technical data

Approvals

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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	85 g

Temperatures

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

RoHS Compliance Status	Compliant with exemption		
RoHS Exemption (if applicable/known)	7a, 7cl		
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	8,319 kg CO2 eq.	

digital outputs

Short-circuit-proof	Yes (thermal cut-out)	
Leakage current	<0.1 mA	
Number of digital outputs	4	
Type	Inductive, Ohmic, Lamp load	
Feedback-free	Yes	
Max. response time, low	250 µs	
Resistive load (min. 47 Ω)	1 kHz	
Output current per channel, max.	2 A	
Simultaneity factor	min.	0 %
	nominal	100 %
	max.	100 %
Positive or negative switching	Positive or negative switching	
Module diagnosis	Yes	
Individual channel diagnosis	No	
Output current as per application	min.	0 mA
	nominal	8000 mA
	max.	8000 mA

Creation date 24.05.2026 05:03:17 MEZ

Catalogue status / Drawings

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Max. response time, high	100 µs	
Switch-off energy (inductive)	<150 mJ / channel	
Response time of the protective circuit (current limiting)	<100µs	
Actuator connection	2-wire, 3-wire, 3-wire + FE	
Lamp load (12 W)	1 kHz	
Inductive load (DC13)	2 Hz	
Output current per module, max.	8000 mA	
Actuator supply	min.	0 mA
	nominal	2000 mA
	max.	2000 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 mm ²
Wire cross-section, solid, min.	0.14 mm ²	Wire connection cross section, finely stranded, max.	1.5 mm ²
Wire connection cross section, finely stranded, min.	0.14 mm ²		

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	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 I _{sys} , typ.	8 mA
Current consumption from IOUT (the respective power segment)	10 mA + load		

System data

Module type	Special module	Interface	u-remote system bus
Galvanic isolation	500 V DC between the current paths	Transmission speed of system bus, max.	48 MBit/s

Classifications

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

Technical data

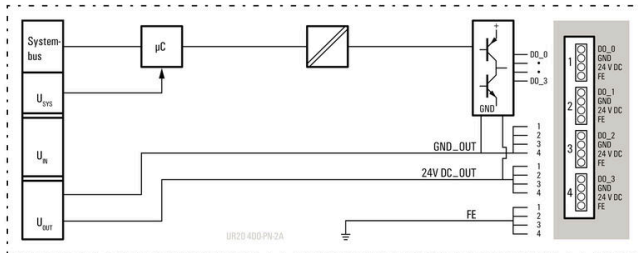
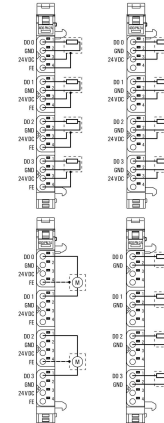
ECLASS 15.0

27-24-26-04

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Drawings
Block diagram

Connection diagram

Explanation of abbreviations
Digital output modules
