

**UR20-8DIO-P-3W-DIAG****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

Digital input and output modules More performance. Simplified. u-remote. Weidmüller u-remote – our innovative remote I/O concept with IP 20 which focuses purely on user benefits: tailored planning, faster installation, safer start-up, no more downtime. For considerably improved performance and greater productivity. Reduce the size of your cabinets with u-remote, thanks to the narrowest modular design on the market and the need for fewer power-feed modules. Our u-remote technology also offers tool-free assembly, while the modular "sandwich" design and integrated web server speed up installation, both in the cabinet and machine. Status LEDs on the channel and each u-remote module enable reliable diagnosis and rapid service. This and many other amazing ideas boost the availability of your machines and systems. And ensure smooth processes too. From planning to operation. u-remote stands for "More Performance". Simplified

**General ordering data**

Version	Remote I/O module, IP20, Digital signals, Input, Output, 8-channel
Order No.	<a href="#">2456530000</a>
Type	UR20-8DIO-P-3W-DIAG
GTIN (EAN)	4050118471694
Qty.	1 pc(s).
Replacement parts	<a href="#">1350930000</a> <a href="#">2593320000</a>

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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	83 g

## Temperatures

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

REACH SVHC	Lead 7439-92-1	SCIP	82327f13-cd27-455a-ab5b-a62e1996dcf8
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## digital inputs

Individual channel diagnosis	only auxiliary voltage output	Input filter	Input delay adjustable from 0 to 40 ms
Input type	P-switching, for Type 1 and Type 3 sensors as per IEC 61131-2	Input voltage, high	> + 11 V referred to 0 V of the output power supply $U_{OUT}$
Input voltage, low	< + 5 V referred to 0 V of the output power supply $U_{OUT}$	Module diagnosis	Yes
Number of digital inputs	8	Protective circuit	Constant current with thermal switch-off and automatic restart
Reverse polarity protection	No, Input voltage below -10 V can destroy the module	Sensor connection	2-wire, 3-wire
Sensor supply	≥ 0.3 A per connector, limited electronically	Short-circuit-proof	Yes
Type	PNP switched		

## digital outputs

Actuator connection	2-wire, 3-wire	Actuator supply	≤ 0.3 A per connector; limited electronically
Feedback-free	Yes	Individual channel diagnosis	Yes, Overcurrent monitoring > 0.5 A, line break detection
Inductive load (DC13)	0.2 Hz	Lamp load (12 W)	10 Hz
Module diagnosis	Yes	Number of digital outputs	8
Output current per channel, max.	0.5 A	Output current per module, max.	4 A
Protective circuit	Constant current with thermal switch-off and automatic restart	Resistive load (min. 47 Ω)	1 kHz
Response time of the protective circuit (current limiting)	< 100µs	Sensor connection	2-wire, 3-wire
Short-circuit-proof	Yes	Switch-off energy (inductive)	< 150 mJ / channel
Type	PNP switched		

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## Connection data

Type of connection	PUSH IN	Wire connection cross section, finely stranded, max.	1.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	0.14 mm <sup>2</sup>	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 mm <sup>2</sup>
Wire cross-section, solid, max. (AWG)	AWG 16	Wire cross-section, solid, min.	0.14 mm <sup>2</sup>
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			
Rail	TS 35			
Restricted area	Positive expansion	Z coordinate	85 mm	
		X coordinate	43 mm	
		Y coordinate	160 mm	
	Negative expansion	Type of restricted area		thermal
		X coordinate	-28 mm	
		Z coordinate	0 mm	
Y coordinate	-40 mm			
Shock	15 g over 11 ms, half sinus wave, acc. to IEC 60068-2-27			
Surge voltage category	II			
Test voltage	500 V			
UL 94 flammability rating	V-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 <sub>IN</sub> (the respective power segment)	8 mA	Current consumption from I <sub>OUT</sub> (the respective power segment)	32 mA + I-Last
Current consumption from I <sub>sys</sub> , typ.	8 mA	Reverse polarity protection	No, Input voltage below -10 V can destroy the module
Voltage supply	24 V DC +20 %/ -15 %, via the system bus		

## System data

Field bus protocol	PROFINET IRT, PROFINET RT, PROFIBUS DP-V1, EtherCAT, Modbus/TCP, EtherNet/IP, CANopen, DeviceNet, POWERLINK, CC-Link, CC-Link IE TSN	Galvanic isolation	500 V DC between the current paths
Interface	u-remote system bus	Module type	Digital input module, Digital output module
Possible connection	2-wire, 3-wire	Transmission speed of system bus, max.	48 Mbit

Creation date September 17, 2022 11:06:09 PM CEST

Catalogue status 09.09.2022 / We reserve the right to make technical changes.

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## 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

## Approvals

Approvals



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

## Downloads

Approval/Certificate/Document of Conformity	<a href="#">RINA certificate</a> <a href="#">DEMKO 15ATEX1525X</a> <a href="#">CCC certificate</a> <a href="#">UKCA Declaration of Conformity - EN</a>
Engineering Data	<a href="#">CAD data – STEP</a> <a href="#">Compatibility information – Combinability of UR20</a>
Engineering Data	<a href="#">EPLAN</a>
Software	<a href="#">Firmware – Current firmware UR20-8DIO-P-3W-DIAG</a>
User Documentation	<a href="#">MAN_U-REMOTE_DE</a> <a href="#">MAN_U-REMOTE_EN</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

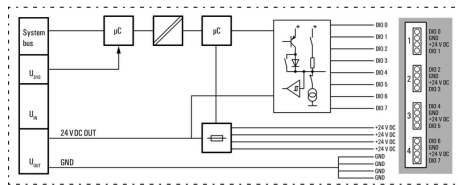
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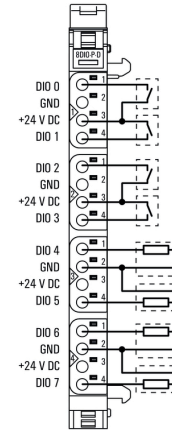
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**Drawings**

**Block diagram**



**Connection diagram**



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