

UR20-8DI-PN-FSOE-V2**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image, Similar to illustration****SIL3; OSSD outputs; wire breakage and short-circuit detection**

Safety technology is of central importance in industrial automation and machine building. If you want to reduce risks and avoid dangers for people and environment, you need solutions which satisfy stringent requirements and statutory specifications. The safety modules of the u-remote system have key features such as emergency-stop circuits and wire-breakage or short-circuit detection. They meet all SIL 3 requirements according to IEC 62061 and EN ISO 13849-1, category 4, PL e, and support the safe operation of your system.

By safely shutting down the downstream output modules, the safety modules attain maximum safety with optimum control. All input sensors are independently supplied via separate voltage paths and report the current machine status to the control unit. Restarting is either carried out in manual mode or using the autostart function. In addition, Weidmüller safety modules reduce maintenance and service times and improve response times in case of emergency – thanks to a concept of maximum transparency, e.g. using OSSD outputs.

The module electronics supply the connected actuators from the output current path (U_{OUT}).

General ordering data

Version	Remote I/O module, IP20, Safety, Digital signals, 8-channel
Order No.	2464600000
Type	UR20-8DI-PN-FSOE-V2
GTIN (EAN)	4050118479409
Qty.	1 pc(s).
Replacement parts	1350970000 2465940000

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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	89.69 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	Yes	Input filter	configurable
Input type	Type 1 in acc. with IEC 61131-2, Type 3 in acc. with IEC 61131-2	Input voltage, high	> 11 V
Input voltage, low	< 5 V	Module diagnosis	Yes
Number	8	Number of digital inputs	8
Reverse polarity protection	Yes	Sensor connection	2-wire, 3-wire, 4-wire
Sensor supply	Yes		

digital outputs

Individual channel diagnosis	Yes	Module diagnosis	Yes
Number	8	Sensor connection	2-wire, 3-wire, 4-wire

Connection data

Number	8	Type of connection	PUSH IN
Wire connection cross section, finely stranded, max.	1.5 mm ²	Wire connection cross section, finely stranded, min.	0.14 mm ²
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 ²	Wire cross-section, solid, max. (AWG)	AWG 16
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
Rail	TS 35

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Restricted area	Positive expansion	X coordinate	43 mm
		Y coordinate	160 mm
		Z coordinate	85 mm
	Negative expansion	Z coordinate	0 mm
		Y coordinate	-40 mm
		X coordinate	-28 mm
	Type of restricted area	thermal	
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 _{IN} (the respective power segment)	30 mA	Current consumption from I _{OUT} (the respective power segment)	30 mA
Current consumption from I _{sys} , typ.	8 mA	Reverse polarity protection	Yes
Voltage supply	24 V DC +20 %/ -15 %, via the system bus		

Safety-related data

MTTF	Probability of outage PFH	Input, single-channel wiring: 2*10 ⁻⁹ ; Dual-channel wiring: 4.07*10 ⁻¹¹ ;
100 Years		
Proportion of safety-related outages (SFF)	98 %	

System data

Field bus protocol	EtherCAT	Galvanic isolation	500 V DC between the current paths
Interface	u-remote system bus	Module type	Safe input module
Possible connection	2-wire, 4-wire	Transmission speed of system bus, max.	48 Mbit

Classifications

ETIM 6.0	EC001599	ETIM 7.0	EC001599
ETIM 8.0	EC001599	ECLASS 9.0	27-24-26-05
ECLASS 9.1	27-24-26-05	ECLASS 10.0	27-24-26-05
ECLASS 11.0	27-24-26-05	ECLASS 12.0	27-24-26-05

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Technical data

Approvals

Approvals



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

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity TÜV_certificate_Safety-IO-module.pdf DEMKO15ATEX1525X UKCA Declaration of Conformity - EN
Engineering Data	CAD data – STEP Compatibility information – Combinability of UR20
Engineering Data	EPLAN
Product Change Notification	Release-Notes - Firmware
Software	Firmware – Archive firmware UR20-8DI-PN-FSOE-V2
User Documentation	MAN_U-REMOTE_DE MAN_U-REMOTE_EN MAN_U-REMOTE_FS_DE MAN_U-REMOTE_FS_EN
Catalogues	Catalogues in PDF-format

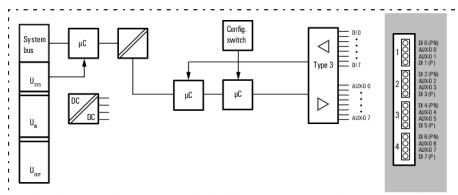
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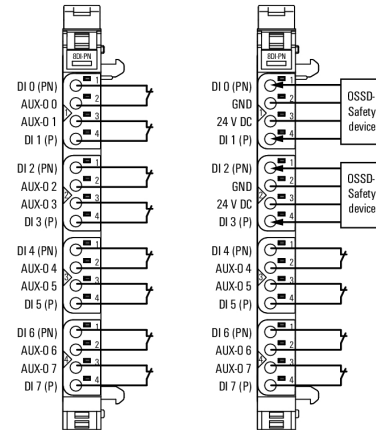
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Drawings

Block diagram



Connection diagram



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Authorized Distributor

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