

**Remote-I/O - u-remote
UR20-4DI-P**

Weidmüller Interface GmbH & Co. KG
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**Positively-switching; short-circuit-proof**

Weidmüller offers a wide range of different digital input modules which are primarily used to receive binary control signals from sensors, transmitters, switches or proximity switches. Due to their flexible design, they are able to meet your demands on well-coordinated project planning with reserve potential.

All modules are fully compliant with IEC 61131-2; they are available with 4, 8 or 16 inputs and can be switched on the input side with type-1 and type-3 sensors in accordance with the standard. With a maximum input frequency of up to 1 kHz, they can be used in a variety of different applications. The variant for PLC interface units allows rapid cabling to the proven Weidmüller interface components using system cables. This ensures rapid incorporation in your overall system.

The module electronics supply the connected sensors from the input current path (U_{IN}).

General ordering data

Type	UR20-4DI-P
Order No.	1315170000
Version	Remote I/O module, IP 20, Digital signals, Input, 4-channel
GTIN (EAN)	4050118118254

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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
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digital inputs

Individual channel diagnosis	No	Input filter	configurable
Input voltage, high	> 11 V	Input voltage, low	< 5 V
Module diagnosis	Yes	Number	4
Reverse polarity protection		Sensor connection	Dual conductor, Triple conductor, Triple conductor + FE
	Yes	Type	Types 1 and 3, EN 61131-2
Sensor supply	Yes		

Connection data

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		Shock	25 g over 6 ms, half sine wave, 1000 shocks per axis and direction as per IEC 60068-2-27
	2	Test voltage	500 V
Surge voltage category	II	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
UL 94 flammability rating	V-0		

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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_{IN} (the respective power segment) [mA]	< 12 mA + sensor feed
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 input module
Process data	4 Bit	Transmission speed of system bus, max.	48 Mbit

Classifications

eClass 6.2	27-24-26-04
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Drawings

