Automation Products - u-remote IP20
UR20-1SM-50W-6DI2DO-P

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Frequency adjustable up to 40 kHz; short-circuit-proof; 2 PWM outputs

As a part of the new u-remote system, Weidmüller offers a special solution for the control of small motors with current requirements of 0.5 A up to 2 A which can also be used for the control of valve flaps. The switching frequencies are adjustable up to 40 kHz and, in addition to this, the push/pull output levels can be used for motor activation; for example: change of rotation direction. As with all modules of the u-remote system, the characteristics are outstanding – from the modular design and the interchangeable electronics to the removable plug-in terminal strip.

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

General ordering data

Type	UR20-1SM-50W-6DI2DO-P
Order No.	2489830000
Version	Remote I/O module, IP20, Digital signals, Special module
GTIN (EAN)	4050118499810

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Technical data

Dimensions and weights

Width	23 mm	Width (inches)	0.906 inch
Height	120 mm	Height (inches)	4.724 inch
Depth	76 mm	Depth (inches)	2.992 inch
Mounting dimension - height	128 mm	Net weight	173 g

Temperatures

Operating temperature, max.	60 °C	Operating temperature, min.	-20 °C
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

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. response time, high	250 µs
Max. response time, low	100 µs	Module diagnosis	Yes
Number of digital outputs	2	Resistive load (min. 47 Ω)	1 kHz
Short-circuit-proof	Yes	Switch-off energy (inductive)	< 150 mJ / channel

Connection data

Type of connection	PUSH IN	Wire connection cross section, finely stranded, max.	1.5 mm²
Wire connection cross-section, finely stranded, min.	0.14 mm²	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 mm²
Wire cross-section, solid, max. (AWG)	AWG 16	Wire cross-section, solid, min.	0.14 mm²
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
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

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Power supply

Reverse polarity protection	Yes	Voltage supply	24 V DC +20%/ -15%

System data

Interface	u-remote system bus

Classifications

ETIM 6.0	EC001604	eClass 6.2	27-24-26-04
eClass 9.0	27-24-26-08	eClass 9.1	27-24-26-05

Approvals

ROHS	Conform

Downloads

Engineering Data	STEP
User Documentation	MAN UR20 STEPPER MOTOR MODULE MAN UR20 SCHRITTMOTORMODUL