

UR20-2PWM-I-2.5A-2DI-P

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Pulse width modulation and stepper motor modules

As part of the u-remote system, Weidmüller offers a specialised solution for controlling small motors with a current requirement of 0.5 A to 2 A, which can also be used to control valve flaps. The pulse width modulation modules can be adjusted within the switching frequencies up to 40 kHz and the modules can also be switched in the motor control with the aid of push/pull output stages, e.g. to change the direction of rotation.

Weidmüller's stepper motor module is efficient and flexible for use in the automation of robots, handling systems or placement machines with stepper motors. Variably adjustable operating parameters as well as a wide range supply from 12 V DC to 50 V DC make the module flexibly applicable for various target applications. Six integrated, parameterizable encoder or digital inputs and two digital outputs with 0.5 A make the control module a complete solution in the smallest of spaces.

As with all modules of the u-remote system, the features are convincing - from the modular design and exchangeable electronics to the removable and pluggable terminal strip. The module electronics supplies the connected actuators from the output current path (UOUT)

General ordering data

Version	Remote I/O module, IP20, Digital signals, 2-channel, PWM, current-regulated control
Order No.	2697910000
Type	UR20-2PWM-I-2.5A-2DI-P
GTIN (EAN)	4050118816471
Qty.	1 Stück
Replacement parts	1350930000

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Technische Daten

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
Net weight	85 g		

Temperatures

Storage temperature	-40 °C ... +85 °C	Operating temperature	-20 °C ... +60 °C
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digital outputs

Actuator connection	bipolar (A+, A- and B+, B-), unipolar (each with additional return conductor CA and CB), parameterisable		
Current-regulated control integrated	Yes		
Digital outputs	Number of channels	2	
Feedback-free	Yes		
Individual channel diagnosis	Yes		
Module diagnosis	Yes		
Number of digital outputs	2		
Output current per channel, max.	2,5 A		
Output current per module, max.	5 A		
Protective circuit	Reverse polarity protection		
Pulse duty factor	0-- 100% push/pull or push, parameterisable		
Resolution	12 Bit (A/D converter), 16 Bit (current target value)		
Sensor connection	2-wire, 3-wire, 3-wire + FE		
Type	Power amplifier output, PWM signal		

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		

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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
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

Voltage supply	24 V DC +20 %/ -15 %, via the system bus
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System data

Connection type	PUSH IN	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	Functional module	Transmission speed of system bus, max.	192 Mbit

Classifications

ETIM 6.0	EC001601	ETIM 7.0	EC001601
ETIM 8.0	EC001601	ETIM 9.0	EC001601
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	ECLASS 13.0	27-24-26-05

Environmental Product Compliance

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

Approvals

Approvals



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Technische Daten

Downloads

Approval/Certificate/Document of Conformity	KC certificate CE Declaration of Conformity - DE
Engineering Data	Compatibility information – Combinability of UR20 CAD data – STEP
Software	Firmware – Current firmware UR20-2PWM-I-2.5A-2DI-P Archive firmware UR20-2PWM-I-2.5A-2DI-P
User Documentation	MAN_U-REMOTE_DE MAN_U-REMOTE_EN
Catalogues	Catalogues in PDF-format

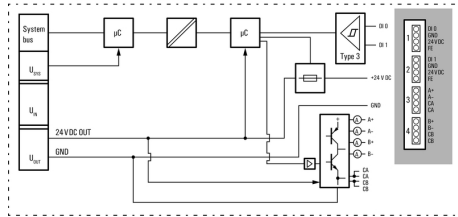
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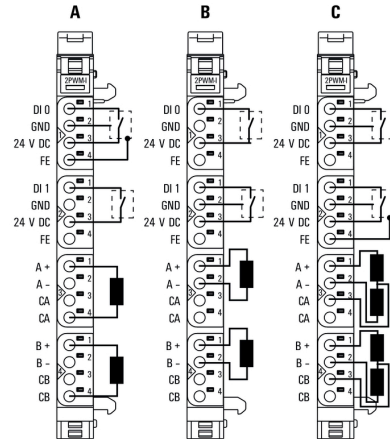
Zeichnungen

Block diagram



image/eps

Connection diagram



Explanation of abbreviations

Pulse width modulation modules

