

**Automation Products - u-remote IP20
UR20-2PWM-PN-0.5A**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Product image**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

| | |
|------------|--|
| Type | UR20-2PWM-PN-0.5A |
| Order No. | 1315600000 |
| Version | Remote I/O module, IP20, Digital signals, Special module, PWM, 0.5 A per channel |
| GTIN (EAN) | 4050118118629 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|-----------------------------|---------|-----------------|------------|
| Width | 11.5 mm | Width (inches) | 0.453 inch |
| Height | 120 mm | Height (inches) | 4.724 inch |
| Depth | 76 mm | Depth (inches) | 2.992 inch |
| Mounting dimension - height | 128 mm | Net weight | 85 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, 3-wire, 3-wire + FE | Data width | 2 Byte Input, 12 Byte Output |
| Feedback-free | Yes | Individual channel diagnosis | No |
| Max. response time, high | 100 ns | Max. response time, low | 100 ns |
| Module diagnosis | Yes | Number of digital outputs | 2 |
| Output current per channel, max. | 500 mA | Output current per module, max. | 1,000 mA |
| Short-circuit-proof | Yes | Switching frequency, inductive load | Static, 6 Hz ... 40 kHz |
| Switching frequency, lamp load | Static, 6 Hz ... 40 kHz | Switching frequency, resistive load | Static, 6 Hz ... 40 kHz |
| Type | DO PWM push / pull | | |

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 | 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} (power segment of the field bus coupler), typ. | 8 mA | Current consumption from I _{OUT} (the respective power segment) | 40 mA |
| Voltage supply | 24 V DC +20 %/ -15 %, via the system bus | | |

System data

| | | | |
|--|--|--|------------------------------------|
| Field bus protocol | CANopen, DeviceNet, EtherCAT, EtherNet/IP, Modbus/TCP, PROFINET IRT, PROFIBUS DP-V1, POWERLINK | Galvanic isolation | 500 V DC between the current paths |
| Interface | u-remote system bus | Module type | Functional module |
| Transmission speed backplane bus, max. 48 Mbit/s | | Transmission speed of system bus, max. 48 Mbit | |

Classifications

| | | | |
|-------------|-------------|------------|-------------|
| ETIM 6.0 | EC001597 | ETIM 7.0 | EC001597 |
| eClass 9.0 | 27-24-26-02 | eClass 9.1 | 27-24-26-02 |
| eClass 10.0 | 27-24-26-02 | | |

Approvals

Approvals



ROHS

Conform

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Technical data

Downloads

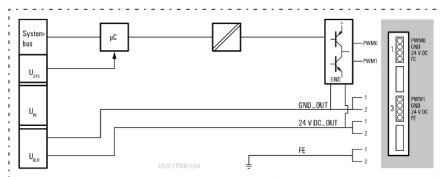
| | |
|---|--|
| Approval/Certificate/Document of Conformity | Declaration of Conformity |
| Engineering Data | EPLAN, WSCAD, Zuken E3.S |
| Engineering Data | STEP CoDeSys - Version 3 |
| User Documentation | MAN U-REMOTE DE MAN U-REMOTE EN |

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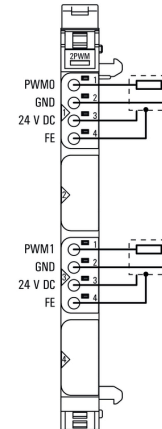
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Drawings

Block diagram



Connection diagram

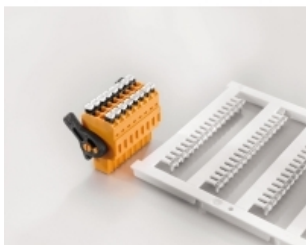


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Accessories

Blank



Weidmüller has established new market standards with its MultiCard product line. This system is being continually extended with over 200 variants and by consistently extending the portfolio.

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | PM 2.7/2.6 MC NE WS | Version |
| Order No. | 1323710000 | OMNIMATE Signal - series PM, Pusher markers, 2.7 x 2.6 mm, Pitch in |
| GTIN (EAN) | 4050118126778 | mm (P): 3.50 Weidmueller, white |
| Qty. | 960 pc(s). | |

Accessories



Potential-distribution modules; system accessory

A wide range of accessory modules is available for individual requirements of machine and plant engineering. Various potential distribution modules are available for the supply of sensors with 2- to 4-wire connection technology directly from the remote I/O system. These offer 16 "PUSH IN" potential points and supply your application with any auxiliary potential available. An empty module, where the system bus and voltage supply are looped through, allows you to plan expansion slots in a system and to start these up without any interruptions if required.

General ordering data

| | | |
|------------|----------------------------|----------------|
| Type | UR20-EBK-ACC | Version |
| Order No. | 1346610000 | End bracket, , |
| GTIN (EAN) | 4050118151596 | |
| Qty. | 5 pc(s). | |

| | | |
|------------|----------------------------|----------|
| Type | UR20-SM-ACC | Version |
| Order No. | 1339920000 | Cover, , |
| GTIN (EAN) | 4050118144727 | |
| Qty. | 20 pc(s). | |

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Accessories

Custom printing



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

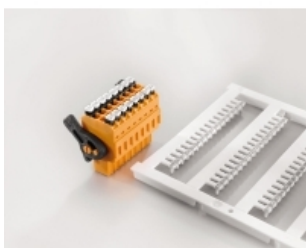
- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

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General ordering data

| | | |
|------------|----------------------------|---|
| Type | DEK 5/8-11.5 MC SDR | Version |
| Order No. | 1341610000 | Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 |
| GTIN (EAN) | 4050118146059 | Weidmueller, To customer specification |
| Qty. | 100 pc(s). | |

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General ordering data

| | | |
|------------|----------------------------|---|
| Type | PM 2.7/2.6 MC SDR | Version |
| Order No. | 1323700000 | OMNIMATE Signal - series PM, Pusher markers, 2.7 x 2.6 mm, Pitch in |
| GTIN (EAN) | 4050118126761 | mm (P): 3.50 Weidmueller, To customer specification |
| Qty. | 192 pc(s). | |

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Accessories

TS 35



General ordering data

| | | |
|------------|----------------------------|---|
| Type | TS 35X7.5/LL 2M/ST/SZ | Version |
| Order No. | 7915060000 | Rail, TS 35, TS 35 x 7.5, with slot, Steel, galvanic zinc plated and |
| GTIN (EAN) | 4032248296279 | passivated |
| Qty. | 2 m | |
| Type | TS 35X7.5 2M/ST/ZN | Version |
| Order No. | 0383400000 | Rail, TS 35, TS 35 x 7.5, without slot, Steel, galvanic zinc plated and |
| GTIN (EAN) | 4008190088026 | passivated |
| Qty. | 2 m | |
| Type | TS 35X7.5/LL 2M/ST/ZN | Version |
| Order No. | 0514500000 | Rail, TS 35, TS 35 x 7.5, with slot, Steel, galvanic zinc plated and |
| GTIN (EAN) | 4008190046019 | passivated |
| Qty. | 2 m | |
| Type | TS 35X7.5/LL 1M/ST/ZN | Version |
| Order No. | 0514510000 | Rail, TS 35, TS 35 x 7.5, with slot, Steel, galvanic zinc plated and |
| GTIN (EAN) | 4008190116620 | passivated |
| Qty. | 1 m | |
| Type | TS 35X7.5 2M/CRN | Version |
| Order No. | 1747350000 | Rail, TS 35, TS 35 x 7.5, without slot, Stainless steel, rust-proof, |
| GTIN (EAN) | 4032248003372 | untreated |
| Qty. | 2 m | |
| Type | TS 35X7.5 2M/AL/BK | Version |
| Order No. | 0330800000 | Rail, TS 35, TS 35 x 7.5, without slot, Aluminium, untreated |
| GTIN (EAN) | 4008190100650 | |
| Qty. | 2 m | |

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General ordering data

| | | |
|------------|----------------------------|---|
| Type | DEK 5/8-11.5 MC NE WS | Version |
| Order No. | 1341630000 | Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 |
| GTIN (EAN) | 4050118145946 | Weidmueller, white |
| Qty. | 500 pc(s). | |