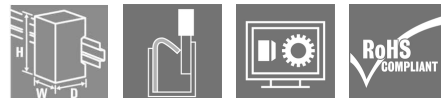


Automation Products - u-remote IP20 UR20-1COM-SAI-PRO

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



100/ 500 kHz; 32-Bit Counter data width; Single channel diagnosis

In automated systems, it is impossible to imagine industry without the collection of incremental- and absolute encoder values. Developed specifically for these applications Weidmüller now offers several counter modules that can take values with an input frequency of up to 500 kHz. By the synchronous-serial Interface module (SSI) high-precision positioning can be realized with absolute encoders. By parameterization the module can work in master- or listening mode to meet all operational situations. For the frequency measurement up to 100 kHz a module with pulse input is available, the UR20-1CNT-500 module has an input that can detect frequencies up to 500 kHz. The UR20-2CNT-100 module has two independent counter inputs and is supplemented by the module UR20-1CNT-100-1DO with only one counter, but additional options. A Latch-, Gate- and Reset input allows external control of the counter. In addition, a digital output can trigger an immediate event, when there are compared values set.

The module UR20-1COM-232-485-422 offers expanded communication possibilities, devices with RS232, RS485 or RS422 interface can be operated efficiently on u-remote. A solution for the connection from the cabinet to

the field represents the module UR20-1COM-SAI-PRO. At this gateway up to 15 decentralized IP67 SAI-PRO sub-bus modules can be integrated per u-remote module. Thanks to simplified installation and commissioning, an extended power supply, automatic parameter settings as well as additional diagnostic functions corresponds the new 4-port IO Link Master to the current requirements.

The module electronics supply the connected sensors from the input current path (UIN).

General ordering data

| | |
|------------|--|
| Type | UR20-1COM-SAI-PRO |
| Order No. | 2007430000 |
| Version | Remote I/O module, IP20, IP20-IP67 communication, PUSH IN connection |
| GTIN (EAN) | 4050118392579 |
| 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 | 80.97 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 inputs

| | | | |
|------------------------------|-----|------------------|-----|
| Individual channel diagnosis | Yes | Module diagnosis | Yes |
| Number | 1 | | |

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 | 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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Technical data

Power supply

| | | | |
|---|--|---|----------------------------|
| Current consumption from I _{IN} (power segment of the field bus coupler), typ. | 8 mA | Current consumption from I _{IN} (the respective power segment) | 20 mA + SAI supply current |
| 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 of system bus, max. | 48 Mbit | | |

Classifications

| | | | |
|-------------|-------------|------------|-------------|
| ETIM 6.0 | EC001604 | ETIM 7.0 | EC001604 |
| eClass 9.0 | 27-24-26-08 | eClass 9.1 | 27-24-26-05 |
| eClass 10.0 | 27-24-26-08 | | |

Approvals

Approvals



ROHS Conform

Downloads

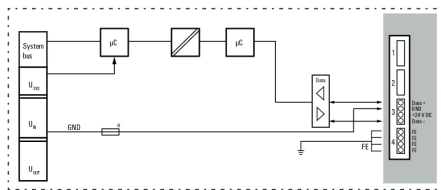
| | |
|---|---|
| Approval/Certificate/Document of Conformity | Declaration of Conformity |
| Engineering Data | EPLAN, WSCAD, Zuken E3.S |
| Engineering Data | STEP |
| Product Change Notification | Release-Notes - Firmware |
| Software | Archiv Firmware UR20-1COM-SAI-PRO Current Firmware UR20-1COM-SAI-PRO |
| User Documentation | MAN_U-REMOTE_DE MAN_U-REMOTE_EN |

**Automation Products - u-remote IP20
UR20-1COM-SAI-PRO**

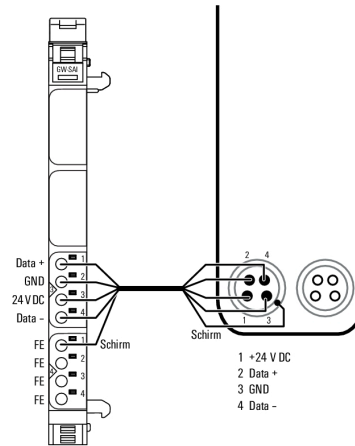
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Drawings

Block diagram



Connection diagram

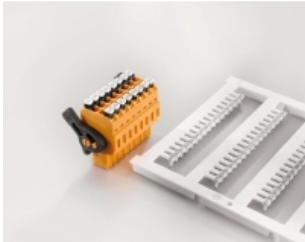


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Accessories

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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 Fax: +49 5231 14-292083
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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.

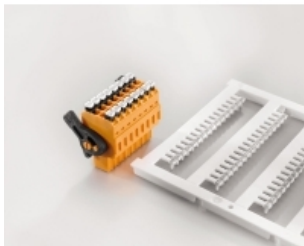
- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

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 | 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). | |

Custom printing



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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 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 passivated |
| GTIN (EAN) | 4032248296279 | |
| 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 passivated |
| GTIN (EAN) | 4008190088026 | |
| 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 passivated |
| GTIN (EAN) | 4008190046019 | |
| 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 passivated |
| GTIN (EAN) | 4008190116620 | |
| 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, untreated |
| GTIN (EAN) | 4032248003372 | |
| 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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Accessories

Blank



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.

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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). | | |