

UR20-1COM-CANOPEN

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



Digital counter and communication modules 100/500 kHz; 32-bit counter resolution; individual channel diagnosis Incremental and absolute value encoders have become indispensable in today's automated systems. Developed especially for these applications, Weidmüller offers you various counter modules that can accept an input frequency up to 500 kHz. The synchronous-serial interface (SSI) module allows high precision positioning tasks to be realised with absolute value encoders. The module can be parameterised for listening or master mode operation in order to cope with all fields of application. A module with pulse input is available to you for frequency measurement up to 100 kHz and the UR20-1CNT-500 offers an input that can accept frequencies up to 500 kHz. The UR20-2CNT-100 module has two independent counter inputs; it is supplemented with the UR20-1CNT-100-1DO module with one counter, which however offers additional options thanks to a latch, gate and reset input. This allows external control of the counter. In addition, this module can trigger an immediate event via a digital output using a set reference value. The UR20-1COM-232-485-422 module offers you extended communication options; for example devices can be integrated consistently in u-remote systems via an RS232, RS485 or RS422 interface. The UR20-1COM-SAI-PRO module presents a solution for connecting the control cabinet to the field. This gateway allows the integra-

tion of up to 15 decentral IP67 SAI-PRO Subbus modules per u-remote module.

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

The IO-Link master UR20-4COM-IO-LINK-V2 (older version: UR20-4COM-IO-LINK) supplements the u-remote platform with intelligent sensor technology. With four IO-Link channels (short-circuit-proof, with individual channel and module diagnostics) and support from the web-based u-mation configurator, it enables easy parameterisation and integration of smart field devices.

General ordering data

| | |
|------------|---|
| Version | Remote I/O module, IP20, 1-channel, CANopen, Communication module, PUSH IN connection |
| Order No. | 2489840000 |
| Type | UR20-1COM-CANOPEN |
| GTIN (EAN) | 4050118499827 |
| Qty. | 1 items |

UR20-1COM-CANOPEN

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Technical data

Approvals

Approvals



| | |
|-------------------------|----------------------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E141197 |

Dimensions and weights

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 76 mm | Depth (inches) | 2.9921 inch |
| Height | 120 mm | Height (inches) | 4.7244 inch |
| Width | 11.5 mm | Width (inches) | 0.4528 inch |
| Net weight | 89 g | | |

Temperatures

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

Environmental Product Compliance

| | | | |
|--------------------------------------|--------------------------------------|--|------------------|
| RoHS Compliance Status | Compliant with exemption | | |
| RoHS Exemption (if applicable/known) | 7a, 7cl | | |
| REACH SVHC | Lead 7439-92-1 | | |
| SCIP | 82327f13-cd27-455a-ab5b-a62e1996dcf8 | | |
| Product Carbon Footprint | Cradle to gate | | 7,799 kg CO2 eq. |

IO-Link interface

| | | | |
|------------------------------|---|--|----|
| Number of IO-Link interfaces | 0 | Individual channel diagnosis of IO-Link interfaces available | No |
|------------------------------|---|--|----|

digital inputs

| | | | |
|------------------------------|------------------------------------|------------------------------|---|
| Number | 1 | Type | 1x CANopen, CANopen according to CiA DS-301 on the basis of ISO 11898, parametrisable |
| Module diagnosis | Yes | Individual channel diagnosis | Yes |
| Individual channel diagnosis | Diagnosis of the CANopen field bus | | |

Connection data

| | | | |
|--|---------------------|--|----------------------|
| Wire cross-section, finely stranded, max. (AWG) | AWG 16 | Wire cross-section, finely stranded, min. (AWG) | AWG 26 |
| Wire cross-section, solid, max. (AWG) | AWG 16 | Wire cross-section, solid, min. (AWG) | AWG 26 |
| Type of connection | PUSH IN | Number | 1 |
| Wire cross-section, solid, max. | 1.5 mm ² | Wire cross-section, solid, min. | 0.14 mm ² |
| Wire connection cross section, finely stranded, max. | 1.5 mm ² | Wire connection cross section, finely stranded, min. | 0.14 mm ² |

UR20-1COM-CANOPEN

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Technical data

General data

| | | | |
|--------------------------|--|---------------------------|--|
| 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 | UL 94 flammability rating | V-0 |
| Test voltage | 500 V | Surge voltage category | II |
| Pollution severity | 2 | Mounting rail | TS 35 |
| Air pressure (operation) | ≥ 795 hPa (height ≤ 2000 m) as per DIN EN 61131-2 | Air humidity (transport) | 10% to 95%, non-condensing 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 | Air pressure (storage) | 1013 hPa (height 0 m) to 700 hPa (height 3000 m) as per DIN EN 61131-2 |
| 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 |
| Shock | 15 g over 11 ms, half sinus wave, acc. to IEC 60068-2-27 | | |

Power supply

| | | | |
|--|--|---|-------|
| Supply voltage | 24 V DC +20 %/ -15 %, via the system bus | Current consumption from IIN (the respective power segment) | 30 mA |
| Feed current for IIN (input current path), 30 A max. | | Current consumption from Isys, typ. | 8 mA |

System data

| | | | |
|--|------------------------------------|--------------------|---|
| Module type | Functional module | Interface | u-remote system bus |
| Galvanic isolation | 500 V DC between the current paths | Field bus protocol | PROFINET IRT, PROFINET RT, PROFIBUS DP-V1, EtherCAT, Modbus/TCP, EtherNet/IP, CANopen, DeviceNet, POWERLINK, CC-Link, CC-Link IE TSN, IEC 61162-450 |
| Transmission speed of system bus, max. 48 MBit/s | | | |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC001604 | ETIM 9.0 | EC001604 |
| ETIM 10.0 | EC001604 | ECLASS 14.0 | 27-24-26-08 |
| ECLASS 15.0 | 27-24-26-08 | | |

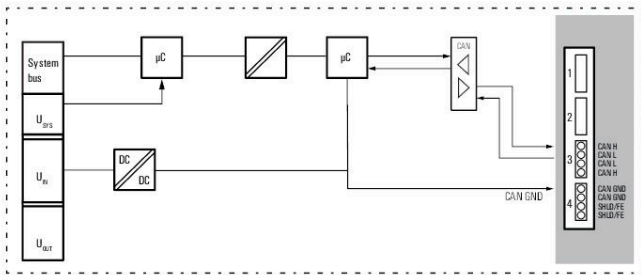
UR20-1COM-CANOPEN

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

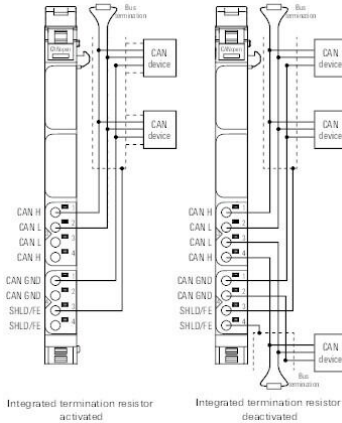
www.weidmueller.com

Drawings

Block diagram



Connection diagram



Explanation of abbreviations

Digital communication- modules

