

UR20-4COM-IO-LINK**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image**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 integration 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).

General ordering data

Version	Remote I/O module, IP20
Order No.	1315740000
Type	UR20-4COM-IO-LINK
GTIN (EAN)	4050118118728
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	76 mm	Depth (inches)	2.992 inch
Height	120 mm	Height (inches)	4.724 inch
Mounting dimension - height	128 mm	Net weight	87.62 g
Width	11.5 mm	Width (inches)	0.453 inch

Temperatures

Storage temperature	-40 °C ... +85 °C	Operating temperature	-20 °C ... +60 °C
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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digital inputs

Individual channel diagnosis	Yes	Input voltage, high	> 11 V
Input voltage, low	< 5 V	Module diagnosis	Yes
Number	4	Short-circuit-proof	Yes
Type	Types 1 and 3, EN 61131-2		

Connection data

Number	4	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		
Rail	TS 35		
Restricted area	Positive expansion	X coordinate	43 mm
		Z coordinate	85 mm
		Y coordinate	160 mm
	Type of restricted area thermal		
	Negative expansion	Z coordinate	0 mm
		Y coordinate	-40 mm
		X coordinate	-28 mm
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

Current consumption from I_{IN} (power segment of the field bus coupler), typ. 8 mACurrent consumption from I_{IN} (power segment of the fieldbus coupler), typ.

min.	8 mA
nominal	8 mA
max.	8 mA

Current consumption from I_{IN} (the respective power segment) 25 mA + sensor feedCurrent consumption from I_{IN} (the respective power segment)

max.	25 mA
nominal	25 mA
min.	25 mA

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

RS interface

Connection type IO-Link

Individual channel diagnosis Yes

Module diagnosis Yes

Number 4

Short-circuit-proof Yes

Serial inputs

Connection type IO-Link

Individual channel diagnosis Yes

Module diagnosis Yes

Number 4

Short-circuit-proof Yes

System data

Class A

Connection type IO-Link

Field bus protocol CANopen, DeviceNet, EtherCAT, EtherNet/IP, Modbus/TCP, PROFINET IRT, PROFIBUS DP-V1, POWERLINK

Galvanic isolation

IO link standard IEC 61131-9

500 V DC between the current paths

Module type Functional module

Interface u-remote system bus

Output current 0.1 A C/Q (DO MODE), 0.5 A L+

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 27-24-26-08

ECLASS 10.0 27-24-26-08

ECLASS 11.0 27-24-26-08

Approvals

Approvals



ROHS Conform

UL File Number Search E141197

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Technical data

Downloads

Approval/Certificate/Document of Conformity	Declaration_of_Conformity
Engineering Data	STEP
Engineering Data	EPLAN
Product Change Notification	Release-Notes - Firmware
Software	Archive UR20-4COM-IO-LINK u-remote IO-Link Configuration-Tool Current firmware UR20-4COM-IO-LINK u-remote IO-Link Konfigurator - Portable Datei u-remote IO-Link Konfigurator - Setup Datei u-remote IO-Link Konfigurator - Release Notes
User Documentation	MAN_U-REMOTE_DE MAN_U-REMOTE_EN MAN UR20 IO-LINK DE MAN UR20 IO-LINK EN

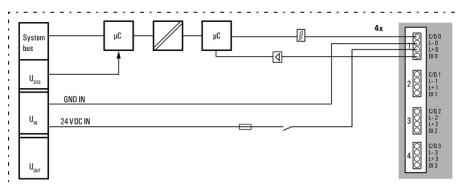
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Drawings

Block diagram



Connection diagram

