



UR20 Communication Modules

UR20-4COM-IO-LINK

The UR20-4COM-IO-LINK communication module is an IO-Link master according to the IO-Link specification v1.1.2. One IO-Link device can be connected to each connector. The IO-Link devices must conform to port class A.

- One digital input can be used additionally with each connector.
- Process data are exchanged with the connected IO-Link device via each IO-Link port.
- Additionally acyclic data can be exchanged through the same port (diagnostic data, parameter data, status information data).
- The parameter data of the connected IO-Link devices can be stored in the master module, where they are managed by a parameterizing server (data-storage). This makes it easy to change the IO-Link master or a single IO-Link device (from IO-Link specification V1.1 on).
- The four communication channels can be used as digital inputs or outputs together with standard field devices.
- A status LED is assigned to each channel.
- The module electronics supply the connected devices with power from the input current path (I_{IN}).
- The inputs are protected against voltage surges and overcurrent. Voltages that exceed $\pm 30V$ may cause the destruction of the module.

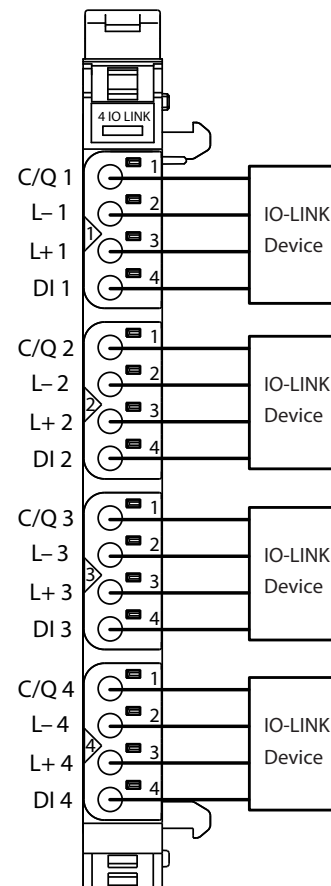


CAUTION: VOLTAGES THAT EXCEED $\pm 30V$ MAY CAUSE THE DESTRUCTION OF THE MODULE.

Technical Specifications - UR20-4COM-IO-LINK

Price	\$301.00
Drawing	PDF
Inputs	
Number	4
Type	IO-Link as per IEC 61131-9
Transfer rate	4.8/38.4/230.4 kbps, depending on the connected IO-Link device
Output current C/Q (in DO mode)	0.1A
Input type C/Q (in DI mode)	Type 1 and Type 3 as per IEC 61131-2
Output current L+	0.5A per channel, total max. 2A
Line break detection	Yes
Short-circuit-proof	Yes
Module diagnosis	Yes
Individual channel diagnosis	Yes
Supply	
Supply voltage for system, inputs and outputs	24 VDC +20% / -15%
Current consumption from system current path I_{SYS}	8 mA
Current consumption from input current path I_{IN}	25 mA + sensor supply
Weight	
Weight (operational status)	88g

Terminal Connections





UR20 Module Specifications

Environmental Specifications - UR20 I/O Modules		
Degree of protection (IEC 60529)		IP20
Flammability rating UL 94		V-0
Material of power contacts and data contacts		Ni-Au, 3µm
Temperature	Operation	-20 + 60 °C [-4 to +140 °F]
	Storage, transport	-40 to +85 °C [-40 to +185 °F]
Humidity	Operation	95%, non-condensing as per IEC 61131-2
	Storage, transport	95%, non-condensing as per IEC 61131-2
Air pressure	Operation	≥ 795 hPa [11.5 psi] (altitude ≤ 2000 m) as per IEC 61131-2
	Storage, transport	≥ 700 hPa [10.2 psi] (altitude ≤ 3000 m) as per IEC 61131-2
Vibration resistance		5 Hz ≤ f ≤ 8.4 Hz: 3.5mm amplitude as per IEC 60068-2-6 8.4 Hz ≤ f ≤ 150 Hz: 1g acceleration as per IEC 60068-2-6
Shock resistance		15g over 11 ms, half sinewave, as per IEC 60068-2-27
Potential isolation	Test voltage	Max. 28.8V within one channel 500 VDC field/system (as per EN 60079-15:2017)
	Pollution severity level	2 (as per DIN EN 60664-1:2008)
	Overvoltage category	II (as per DIN EN 50178)
Approvals		CE, RoHS, UKCA, cULus E141197