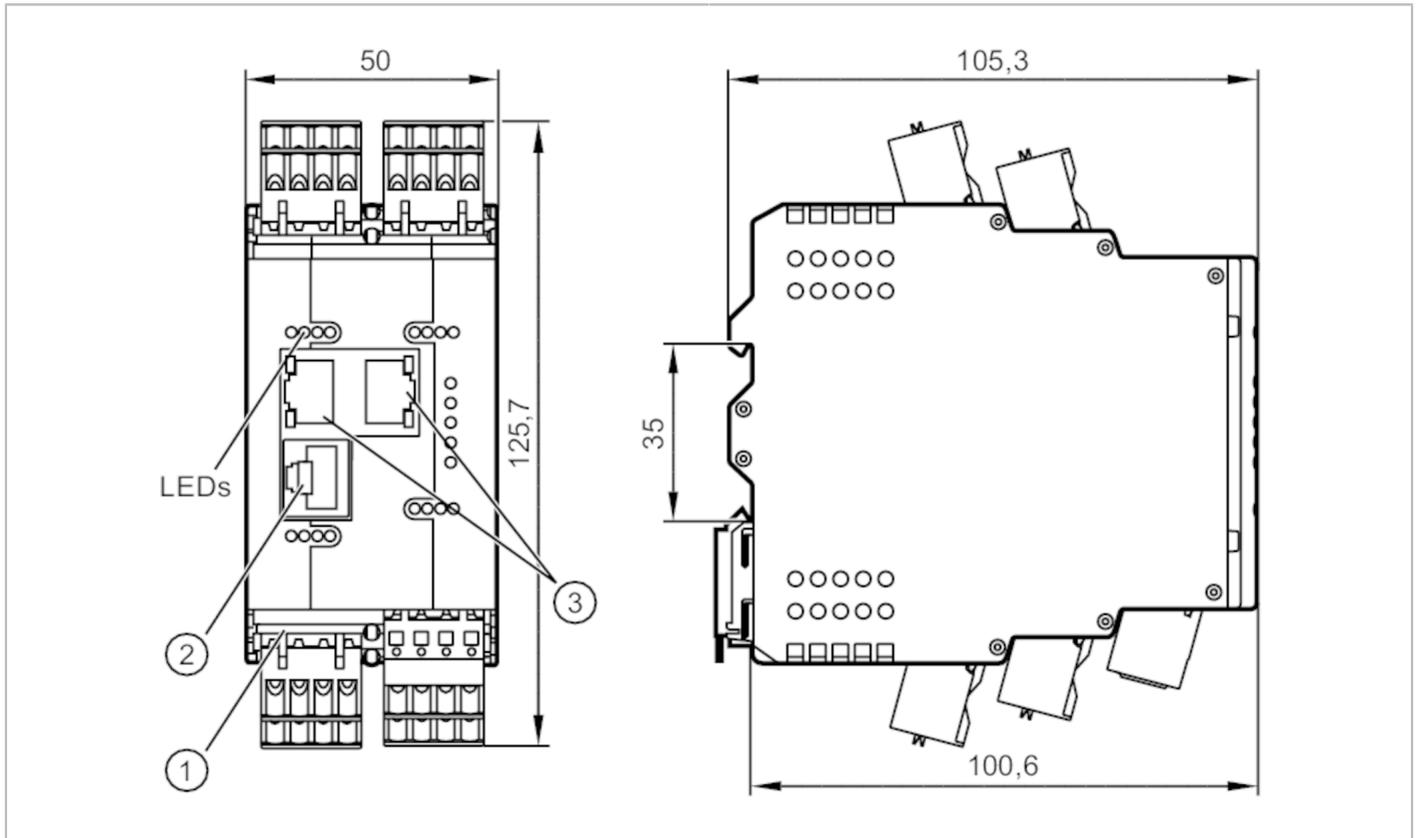# AL1970

IO-Link master with POWERLINK interface

IO-Link Master CL PLI 8P IP20

Application	
Application	I/O modules for use in the control cabinet

Electrical data		
Operating voltage	[V]	20...30 DC; (US ; to SELV/PELV)
Current consumption	[mA]	300...3900; (US)
Protection class		III

Sensor supply US		
Max. current load total	[A]	3.6

Inputs / outputs	
Total number of inputs and outputs	16; (configurable)
Number of inputs and outputs	Number of digital inputs: 8; Number of digital outputs: 8

Inputs		
Number of digital inputs		8; (IO-Link Port Class A)
Switching level high	[V]	11...30
Switching level low	[V]	0...5
Digital inputs protected against short circuits		yes

Outputs		
Number of digital outputs		8; (IO-Link Port Class A)
Max. current load per output	[mA]	300

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Short-circuit proof	yes

Interfaces

Communication interface	Ethernet; IO-Link

Ethernet - POWERLINK

Transmission standard	10Base-T; 100Base-TX
Transmission rate	10 MBit/s; 100 MBit/s
Protocol	POWERLINK
Factory settings	IP address: 192.168.100.1
	subnet mask: 255.255.255.0
	gateway IP address: 0.0.0.0
	MAC address: see type label

Ethernet - Internet of Things

Transmission standard	10Base-T; 100Base-TX
Transmission rate	10 MBit/s; 100 MBit/s
Protocol	MQTT JSON
Factory settings	IP address: 169.254.x.x
	subnet mask: 255.255.0.0
	gateway IP address: 0.0.0.0
	MAC address: see type label

IO-Link Master

Transmission type	COM1 (4,8 kBaud); COM2 (38,4 kBaud); COM3 (230,4 kBaud)
IO-Link revision	1.1
Number of ports class A	8

Operating conditions

Ambient temperature	[°C]	-25...65
Storage temperature	[°C]	-25...85
Max. relative air humidity	[%]	90
Protection		IP 20

Tests / approvals

EMC	EN 61000-6-2	
	EN 61000-6-4	
MTTF	[years]	78

Mechanical data

Weight	[g]	340.9
Housing		housing for DIN rail mounting
Type of mounting		mounting on DIN rail
Dimensions	[mm]	125.7 x 50 x 105.3
Materials		housing: PA orange

Accessories

Items supplied	cage clamps: 9

Remarks

Remarks	For further information please see the operating instructions.
Pack quantity	1 pcs.

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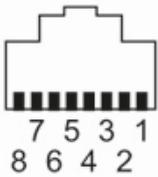
Electrical connection

power supply X31

1	GND (US)
2	GND (US)
3	+ 24 V DC (US)
4	+ 24 V DC (US)

IO-Link Port Class A X01...X08

1	Sensor supply (US) L+
2	digital input
3	Sensor supply (US) L-
4	C/Q IO-Link

Electrical connection - Ethernet

Connector: RJ45

Powerlink X21, X22

1	TX +
2	TX -
3	RX +
4	not used
5	not used
6	RX -
7	not used
8	not used

IoT X23

1	TX +
2	TX -
3	RX x
4	not used
5	not used
6	RX -
7	not used
8	not used