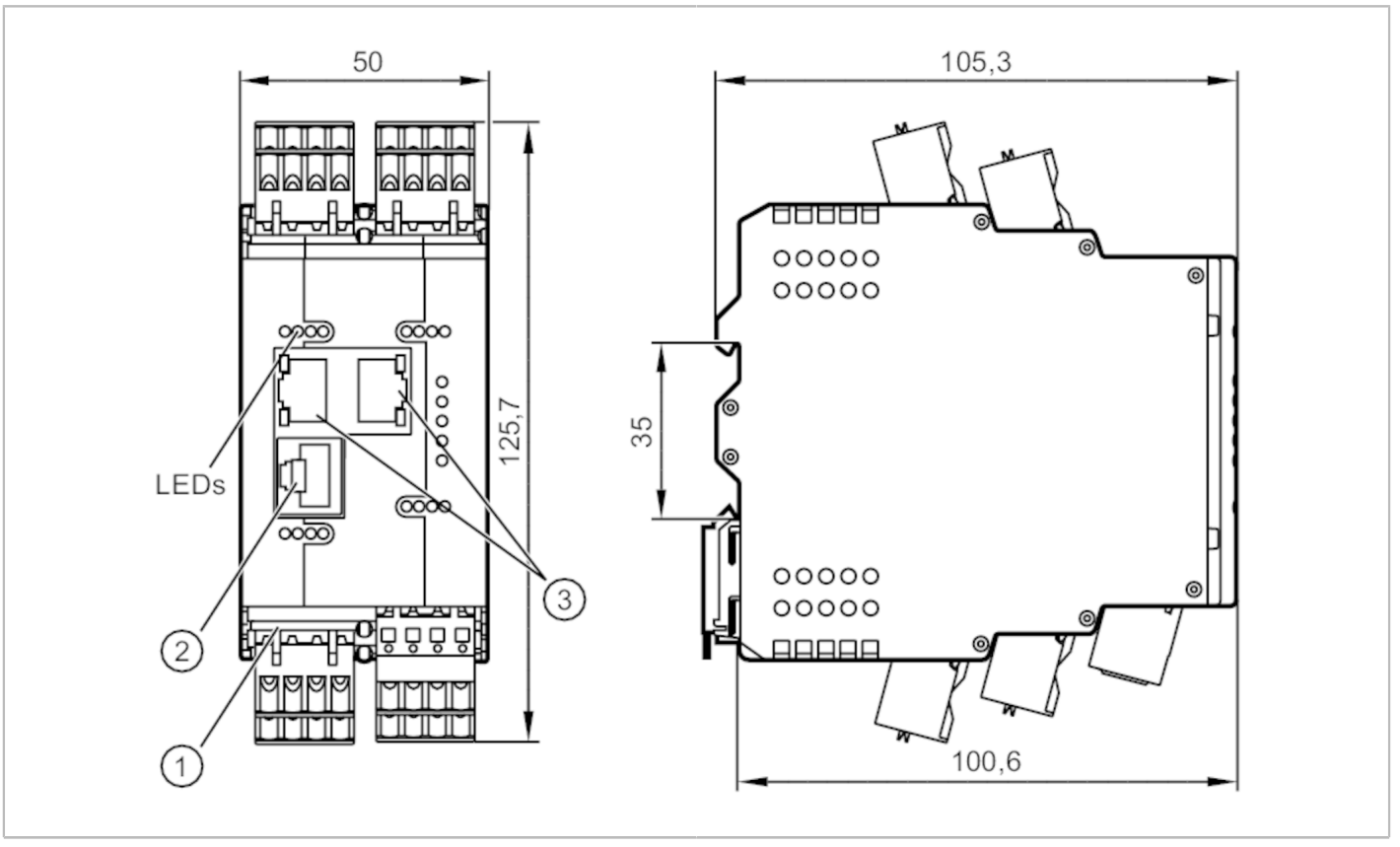
AL1940

IO-Link master with Modbus TCP interface

IO-Link Master CL MB 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 - Modbus TCP		
Transmission standard		10Base-T; 100Base-TX
Transmission rate		10 MBit/s; 100 MBit/s
Protocol		Modbus TCP
Factory settings		IP address: 192.168.1.250
		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
Note on interfaces		Secure protocol: HTTPS
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]	329.5
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

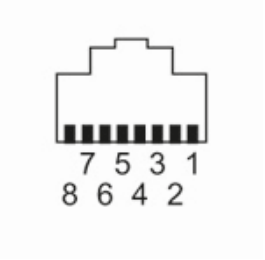
1	GND (US)
2	GND (US)
3	+ 24 V DC (US)
4	+ 24 V DC (US)

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



EtherNet IP 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