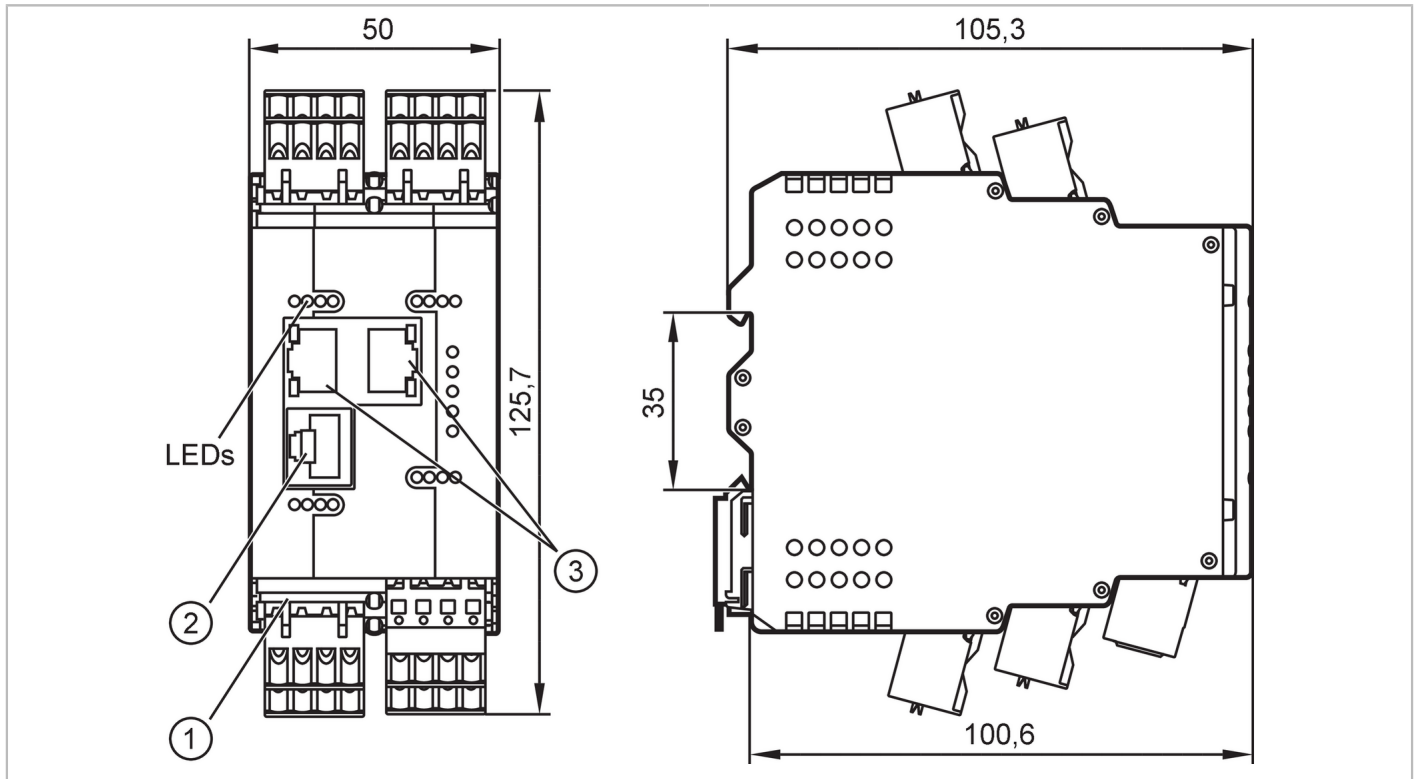


# AL1940



## IO-Link master with Modbus TCP interface

IO-Link Master CL MB 8P IP20



Application	
Design	housing for DIN rail mounting
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
Short-circuit proof	yes



## IO-Link master with Modbus TCP interface

IO-Link Master CL MB 8P IP20

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
Housing	rectangular
Type of mounting	mounting on DIN rail; (TH35 (EN 60715))
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.



## IO-Link master with Modbus TCP interface

IO-Link Master CL MB 8P IP20

### Electrical connection

#### voltage supply X31

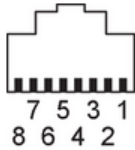
1	GND (US)
2	GND (US)
3	+ 24 V DC (US)
4	+ 24 V DC (US)

#### 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; Contacts: 4



#### Modbus TCP 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