

I/O module - IOL MA8 EIP DI8 - 1072839

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Eight-channel IO-Link master provides convenient configuration of IO-Link devices using web-based management. Supports connectivity to EtherNet/IP, MODBUS, and OPC UA. Features eight auxiliary digital inputs, redundant input power supply connections, plug-in push-in terminals.

Product Description


Provides connectivity to EtherNet/IP, MODBUS TCP, and OPC UA networks. It enables the operation of up to eight IO-Link sensors/actuators and is also used to acquire digital signals. The device is designed for use in systems manufacturing.

Your advantages

- Web-based management
- Eight-channel IO-Link master
- Diagnostic and status indicators
- Short-circuit and overload protection of the sensor supply
- Plug-in connection terminals, push-in connection technology
- Connections for up to 16 digital sensors



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 766904
GTIN	4055626766904
Weight per Piece (excluding packing)	0.010 g
Custom tariff number	85176200
Country of origin	United States

Technical data

Note

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Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	45 mm
Height	114.5 mm
Depth	99 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 %
Permissible humidity (storage/transport)	10 % ... 95 %
Degree of protection	IP20

Connection data

Connection method	Push-in technology
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	10 mm

Interfaces

Designation	EtherNet/IP™
Number	2
Connection method	RJ45 jack
Transmission speed	10/100 Mbps (with auto negotiation)
Transmission physics	Ethernet in RJ45 twisted pair

Digital inputs

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Connection method	Push-in / plug connection
Connection technology	3-conductor
Number of inputs	8
Protective circuit	Overload protection
	Short-circuit protection for the sensor supply

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Technical data

Digital inputs

Nominal input voltage U_{IN}	24 V DC
Nominal input current at U_{IN}	typ. 3.5 mA
Input voltage range "0" signal	0 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC
Input frequency	0.5 kHz
Input name	Digital inputs
Description of the input	IO-Link ports in digital input (DI) mode
Connection method	Push-in / plug connection
Connection technology	3-conductor
Number of inputs	max. 8 (EN 61131-2 types 1 and 3)
Nominal input voltage U_{IN}	24 V DC
Input voltage range "0" signal	8 V DC ... 11.5 V DC (for C/Q pin)
Input voltage range "1" signal	10.5 V DC ... 13 V DC
Sensor current per channel	max. 200 mA (from L+/L-)
Total sensor current	max. 1.6 A (from L+/L-)
Type of protection	Overload protection
	Short-circuit protection for the sensor supply

IO-Link inputs

Designation	IO-Link
Number of ports	8
Connection method	Push-in / plug connection
Connection technology	3-conductor
Cycle Time	min. 4 ms (IO-Link cycle time)
Permissible cable length	< 20 m
Description of the input	Digital inputs (DI)
Connection method	Push-in / plug connection
Nominal input voltage U_{IN}	24 V DC
Input voltage range "0" signal	5.2 V DC ... 6.4 V DC
Input voltage range "1" signal	6.8 V DC ... 8 V DC
Nominal input current	typ. 3.5 mA
Sensor current per channel	max. 200 mA (from L+/L-)
Total sensor current	max. 1.6 A (from L+/L-)
Type of protection	Overload protection
	Short-circuit protection for the sensor supply

Digital outputs

Output description	IO-Link ports in digital output (DO) mode
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Technical data

Digital outputs

Connection method	Push-in / plug connection
Connection technology	3-conductor
Number of outputs	max. 8
Nominal output voltage	24 V DC
Maximum output current per channel	200 mA
Maximum output current per device	1.6 A
Nominal load, ohmic	4.8 W (120 Ω , at nominal load)
Output voltage when switched off	max. 1 V
Output current when switched off	max. 400 μ A
Type of protection	Overload protection
	Short-circuit protection
Behavior with overload	Shutdown with automatic restart

Supply of the IO-Link ports

Nominal voltage for I/O supply	24 V DC
Nominal current for every IO-Link port	max. 200 mA (at C/Q)
	max. 200 mA (at L+/L-)
Type of protection	Overload protection
Permissible cable length	< 20 m

General

Housing material	Polyamide
Mounting type	DIN rail
Color	gray
Net weight	366.5 g

Electrical isolation

Test section	24 V supply/Ethernet 500 V AC 50 Hz 1 min.
	24 V supply (US) / FE 500 V AC 50 Hz 1 min.
	Ethernet/FE 500 V AC 50 Hz 1 min.
	Ethernet/Ethernet 500 V AC 50 Hz 1 min.

Standards and Regulations

Mechanical tests	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 1g
	15g
	pass

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Classifications

eCl@ss

eCl@ss 10.0.1	27242608
eCl@ss 11.0	27242608
eCl@ss 8.0	27242608
eCl@ss 9.0	27242608

ETIM

ETIM 5.0	EC001604
ETIM 6.0	EC001604
ETIM 7.0	EC001604

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cULus Listed			
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