

IOL MA8 EIP DI8 - Communication module



1072839

<https://www.phoenixcontact.com/us/products/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



Commercial data

Item number	1072839
Packing unit	250 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DR04
Product key	DRI7PD
GTIN	4055626766904

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Weight per piece (including packing)	383.5 g
Weight per piece (excluding packing)	226.6 g
Customs tariff number	85176200
Country of origin	US

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Technical data

Dimensions

Width	45 mm
Height	114.5 mm
Depth	99 mm

Notes

Note on application

Note on application	Only for industrial use
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Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Material specifications

Color (Housing)	gray (RAL 7042)
Housing material	Polyamide

Interfaces

EtherNet/IP™

No. of channels	2
Connection method	RJ45 jack
Transmission speed	10/100 Mbps (with auto negotiation)
Transmission physics	Ethernet in RJ45 twisted pair

EtherNet/IP™

Equipment type	EtherNet/IP™ device
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Input data

Digital:

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Number of inputs	8
Connection method	Push-in / plug connection
Connection technology	3-conductor
Input voltage range "0" signal	0 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC
Nominal input voltage U_{IN}	24 V DC
Nominal input current at U_{IN}	typ. 3.5 mA
Input frequency	0.5 kHz
Protective circuit	Overload protection
	Short-circuit protection for the sensor supply

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Digital

Input name	Digital inputs
Description of the input	IO-Link ports in digital input (DI) mode
Number of inputs	max. 8 (EN 61131-2 types 1 and 3)
Connection method	Push-in / plug connection
Connection technology	3-conductor
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-)
Protective circuit	Overload protection; yes Short-circuit protection for the sensor supply; electronic

IO-Link

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-)
Protective circuit	Overload protection; yes Short-circuit protection for the sensor supply; yes

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)

Output data

Digital:

Maximum output current per channel	200 mA
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Digital

Output description	IO-Link ports in digital output (DO) mode
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 module	1.6 A

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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
Protective circuit	Overload protection Short-circuit protection; yes
Behavior with overload	Shutdown with automatic restart

Product properties

Product type	I/O component
Product family	Stand-alone
Type	Stand-alone

Electrical properties

Maximum power dissipation for nominal condition	4.4 W
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Supply: IO-Link

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-)
Permissible cable length	< 20 m
Protective circuit	Overload protection; yes

Potentials

Supply voltage	24 V DC
Supply voltage range	10.8 V DC ... 30 V DC
Current draw	155 mA

Supply: Module electronics

Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC
Current consumption	3.7 A

Supply:

Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC
Current consumption	max. 3.7 A
Typical current consumption	155 mA (at 24 V DC)

Electrical isolation/isolation of the voltage ranges

Test voltage: 24 V supply/Ethernet	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply (US) / FE	500 V AC, 50 Hz, 1 min
Test voltage: Ethernet/FE	500 V AC, 50 Hz, 1 min
Test voltage: Ethernet/Ethernet	500 V AC, 50 Hz, 1 min

Connection data

Connection method	Push-in connection
pluggable	yes

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Conductor cross-section, rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section, flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 14
Stripping length	10 mm

Environmental and real-life conditions

Ambient conditions

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

Mechanical test

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	1g
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Mounting

Mounting type	DIN rail mounting
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Approvals

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UL Listed

Approval ID: E238705



cUL Listed

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Classifications

ECLASS

ECLASS-13.0	27242608
ECLASS-15.0	27242608

ETIM

ETIM 10.0	EC001604
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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