

# IOL MA8 PN DI8 - Communication module



1072838

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

## Product description

Provides connectivity to PROFINET, 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	1072838
Packing unit	250 pc
Minimum order quantity	1 pc
Sales key	DR04
Product key	DRI7PA
GTIN	4055626765778
Weight per piece (including packing)	372.5 g

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Weight per piece (excluding packing)	226.8 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

#### PROFINET

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

#### PROFINET

Equipment type	PROFINET-Device
System-specific protocols	PROFINET protocols LLDP
	PROFINET protocols MRP client
	PROFINET protocols DCP
	DCE/RPC
Protocols supported	SNMP v1
	HTTP
	TFTP
	FTP
	BootP
	DHCP
	SSH

### Input data

#### Digital:

Input name	Digital inputs
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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

## 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

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## 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
Nominal load, ohmic	4.8 W (120 $\Omega$ , at nominal load)
Output voltage when switched off	max. 1 V
Output current when switched off	max. 400 $\mu$ 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

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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
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
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

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1072838>



**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-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

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