



IO-Link master ICE3-8IOL-K45S-RJ45-EX

- Web-based configuration of module and IO-Link devices
- Integrated IODD storage for more than 100 IODDs
- Downloadable module configuration
- PROFINET IO, Modbus/TCP and OPC UA Support
- Screw terminal power connector
- Certified for use in Zone 2 and Class I, Division 2

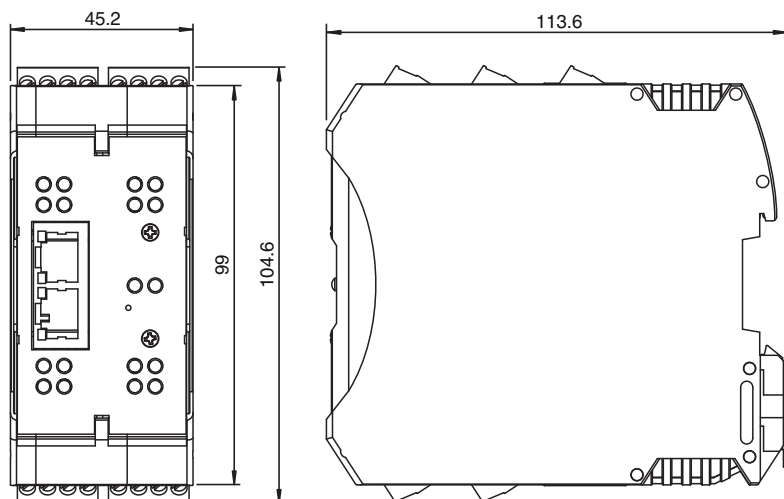
PROFINET IO IO-Link master with 8 inputs/outputs, DIN rail, screw terminal



Function

The module is a PROFINET IO fieldbus module with 8 type A IO-Link master ports according to IO-Link standard V1.1. The fieldbus module serves as an interface between the controller of a PROFINET IO fieldbus system and IO-Link devices in the field level. The integrated web server and IODD interpreter enabling complete configuration of the fieldbus module and attached IO-Link devices without the need for special software tools. Information regarding the status of the module is also displayed and network parameters such as the IP address and subnet mask can be configured. The module is capable of storing all configuration enabling stand-alone usage without a higher-level PLC. MultiLink simultaneously provides data access via different communication protocols like PROFINET IO, Modbus/TCP and OPC UA to multiple controllers. A screw terminal connector is used for supplying power that enables a current rating of up to 3.7 A. The inputs and outputs are equipped with screw terminal connectors. Connection to the fieldbus is achieved using a standard RJ45 Ethernet connector. Status information for each channel is displayed via LEDs as a diagnostic function.

Dimensions



Technical Data

Indicators/operating means

LED indication	see manual
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Electrical specifications

Rated operating voltage	U_e	18 ... 30 V DC
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical Data

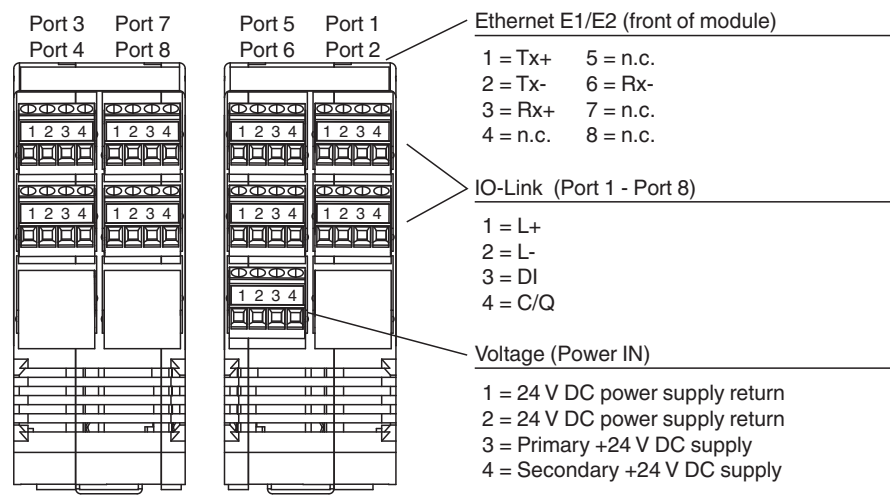
General information		Redundant power
Nominal voltage	U_N	24 V DC
Nominal current		3.7 A
Current consumption		typ. 155 mA
Current loading capacity		Total current 3.2 A per module
Interface 1		
Interface type		Industrial Ethernet
Physical		RJ45
Protocol		PROFINET IO with media redundancy protocol (MRP) + Modbus TCP + OPC UA + MQTT (including Sparkplug B support) Modbus max PDI: 33 times / sec OPC UA max PDI update rate: 20 times / sec MQTT max PDI update rate: 10 times / sec
Transfer rate		10/100 Mbps
Inputs/Outputs		
Number/Type		8 x IO-Link Class A (X1 - X8) Configurable as: Max. 8 IO-Link and 8 digital inputs Max. 16 digital inputs Max. 8 digital inputs and 8 digital outputs short-circuit protected
Sensor supply		max. 200 mA per port via L+ (pin 1)
Output current	I_e	max. 200 mA per port Via C/Q (pin 4)
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61000-6-2:2005 , EN 61000-6-4:2007 + A1:2011 , EN 61131-2:2007
Standard conformity		
Degree of protection		EN 60529
Fieldbus standard		Type 1 according to IEC 61131-2, EN 61131-9
Ambient conditions		
Ambient temperature		-40 ... 60 °C (-40 ... 140 °F)
Storage temperature		-40 ... 70 °C (-40 ... 158 °F)
Relative humidity		max. 95 %
Altitude		0 ... 2000 m
Shock and impact resistance		15g, 11ms, half-sine
Vibration resistance		5-8Hz, 3.5mm displacement, 8.4-150Hz, 1.0g acceleration
Mechanical specifications		
Degree of protection		IP20
Connection		Power Supply screw terminal Fieldbus RJ45 Inputs/Outputs screw terminal
Material		
Housing		Polyamide, UL94V-0
Mass		272 g
Dimensions		
Height		104.6 mm
Width		45.2 mm
Length		113.6 mm
Construction type		Cabinet module
Mounting		DIN mounting rail
Data for application in connection with hazardous areas		
Certificate		UL 25 ATEX 3354X
Marking		Ⓔ II 3G Ex ec IIC T4 Gc
Directive conformity		
Directive 2014/34/EU		EN IEC 60079-0:2018 , EN IEC 60079-0:2018/A11:2024 , EN 60079-7:2015 , EN IEC 60079-7:2015/A1:2018
International approvals		

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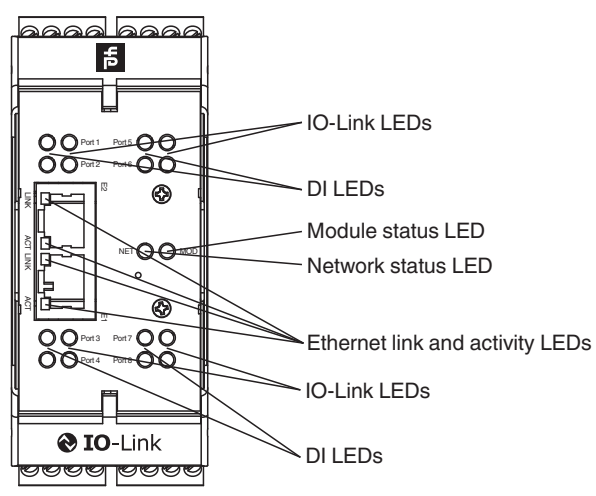
Technical Data

UL approval	E492874
Approved for	Class I, Division 2, Groups A - D T4
IECEEx approval	
IECEEx certificate	IECEEx ULD 25.0005X
IECEEx marking	Ex ec IIC T4 Gc

Wiring Diagram



Assembly



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