



IO-Link master

ICE2-8IOL1-G65L-V1D

- Provides 4 Class A and 4 Class B IO-Link ports
- Web-based configuration of module and IO-Link devices
- Integrated IODD storage for more than 100 IODDs
- Downloadable module configuration
- M12 L-coded power connector
- EtherNet/IP, Modbus/TCP, OPC UA, and MQTT support

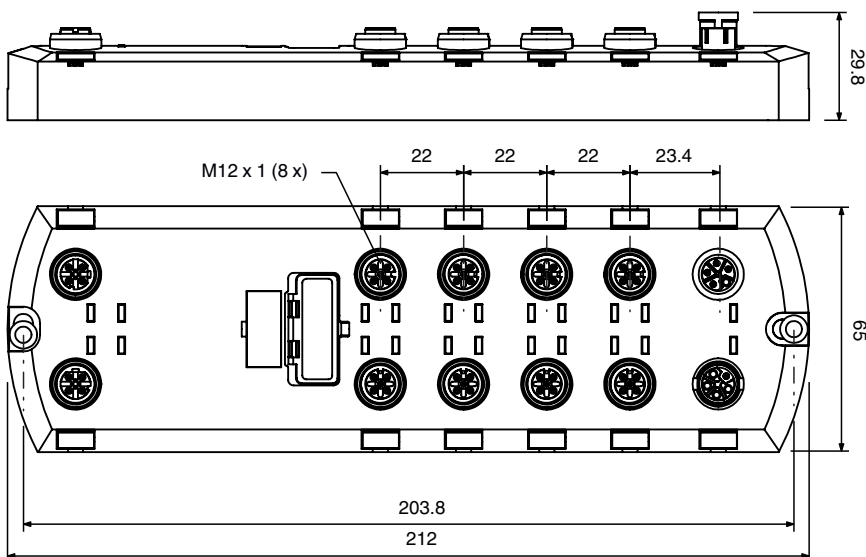
EtherNet/IP and Modbus IO-Link master with 4 x IO-Link Class A and 4 x IO-Link Class B ports



Function

The module is an EtherNet/IP fieldbus module with 4 type A IO-Link master ports and 4 type B IO-Link master ports according to IO-Link standard V1.1. The fieldbus module serves as an interface between the controller of an EtherNet/IP 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 EtherNet/IP, Modbus/TCP, OPC UA and MQTT to multiple controllers. An L-coded M12 connector plug used for supplying power enables a current rating of up to 2 x 16 A. The inputs and outputs are equipped with A-coded M12 connector plugs. Connection to the fieldbus is achieved using a D-coded M12 connector plug. Status information for each channel is displayed via LEDs as a diagnostic function.

Dimensions



Technical Data

General specifications

UL File Number E360395

Indicators/operating means

LED indication see manual

Release date: 2025-07-11 Date of issue: 2025-07-11 Filename: 70118644_eng.pdf

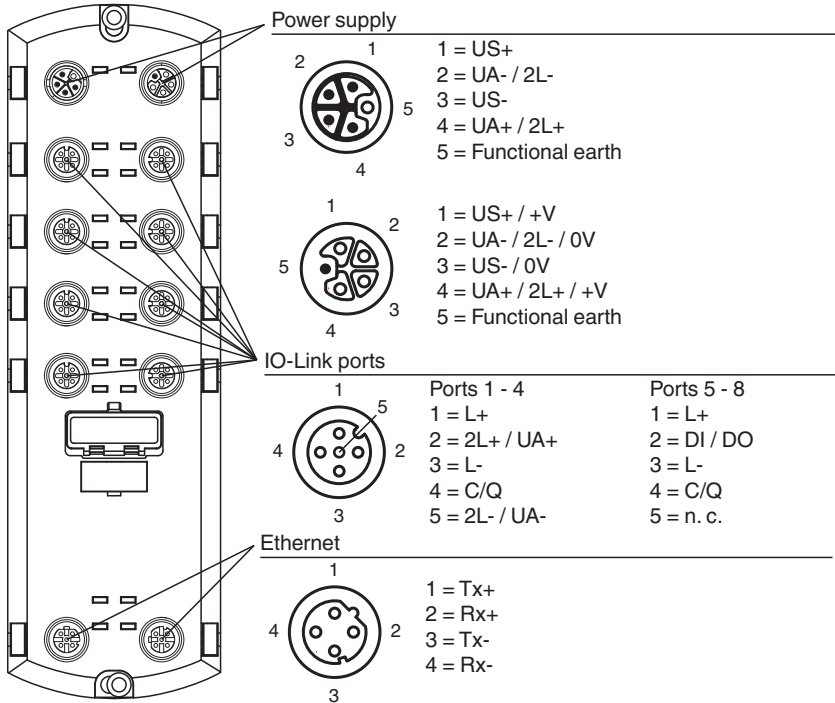
Technical Data

Rotary switch		Setting the IP address
Electrical specifications		
Rated operating voltage	U_e	20 ... 30 V DC
General information		M12, L-coded
Protection class		PELV or Limited Voltage power supply required
Nominal voltage	U_N	24 V DC
Current consumption		typ. 120 mA
Current loading capacity		Max. 2 x 16 A per module (Loop-through current via L-coded power supply) Total current: max. 6.5 A per module (Class A) Total current: max. 10.4 A per module (Class B)
Galvanic isolation		between US and UA
Interface 1		
Interface type		Industrial Ethernet
Physical		M12, D-coded
Protocol		EtherNet/IP + 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		4 x IO-Link Class B (X1 - X4) and 4 x IO-Link Class A (X5 - X8) Configurable as: Class 2, , PELV or Limited Voltage power supply required max. 12 digital inputs and digital outputs short-circuit protected
Sensor supply		Ports 1 - 8: max. 500 mA per port via L+ (pin 1)
Actuator supply		Port 1: max. 3.5A via 2L+ (pin 2) Ports 2-4: max. 2.3A via 2L+ (pin 2)
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61000-6-2 , EN 61000-6-4
RoHS		EN IEC 63000:2018
Standard conformity		
Degree of protection		EN 60529
Fieldbus standard		IEC 61131-2
Electrical safety		CSA C22.2 No. 61010-1-12 UL 61010-1, IEC 61010-2-201
Emitted interference		EN 61000-6-4, FCC Part 15 Subpart B, ICES-001, AS/NZS CISPR 11
Noise immunity		EN 61000-6-2 , EN 61131-2 , EN 61131-9
Shock resistance		EN 60068-2-27
Ambient conditions		
Operating temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Relative humidity		max. 95 %
Altitude		0 ... 2000 m
Shock and impact resistance		15g, 11ms, half-sine
Mechanical specifications		
Degree of protection		IP67
Connection		Power Supply M12, L-coded Fieldbus M12, D-coded Inputs/Outputs M12, A-coded
Material		
Housing		Molded Polyamide 66
Mass		454 g
Tightening torque, fastening screws		8 Nm
Tightening torque, cable gland		0.6 Nm
Dimensions		65 mm 29.8 mm 212 mm
Height		212 mm

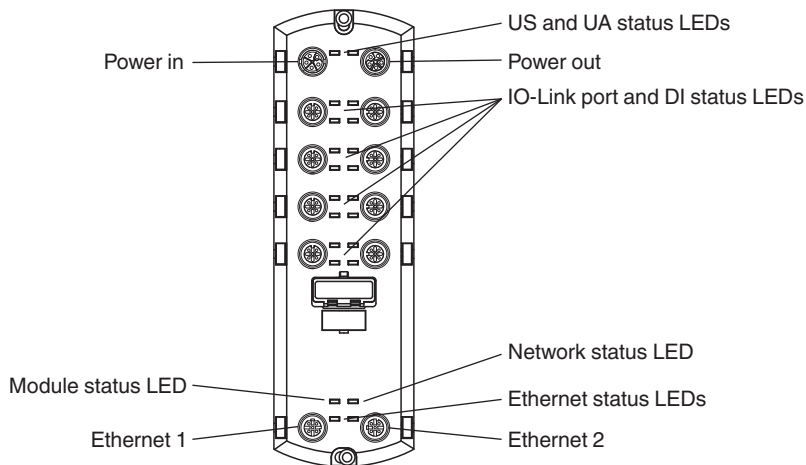
Technical Data

Width	65 mm
Length	30 mm
Mounting	Machine or panel

Connection



Assembly



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