

IO-Link master (PNIO/MOD)

ICE3-8IOL-G65L-V1D

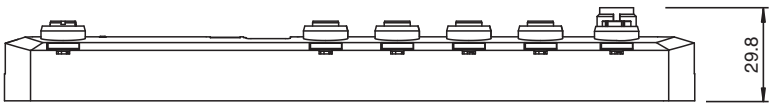
- PROFINET IO, Modbus/TCP and OPC UA Support
- Web-based configuration of module and IO-Link devices
- Integrated IODD storage for more than 100 IODDs
- Downloadable module configuration
- M12 L-coded power connector

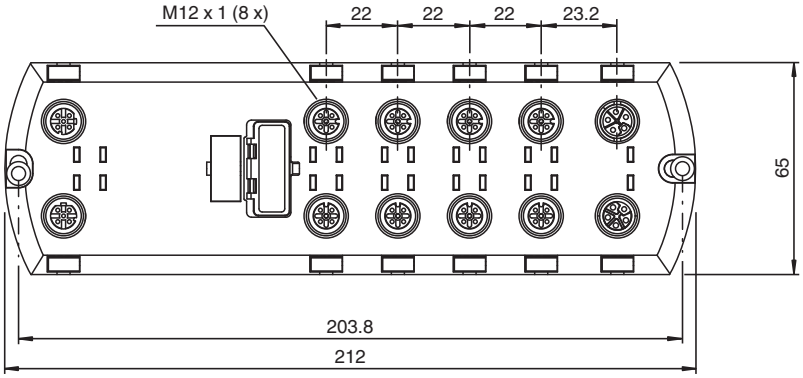
PROFINET IO IO-Link master with 8 inputs/outputs

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. MutliLink simultaneously provides data access via different communication protocols like PROFINET IO, Modbus/TCP and OPC UA 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

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Technical Data

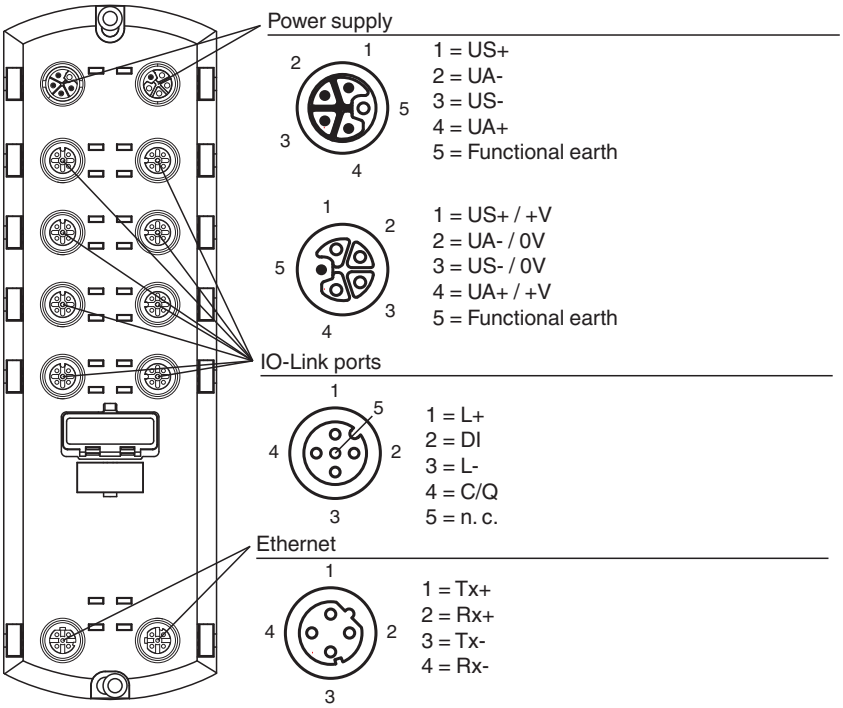
UL File Number		E360395
Indicators/operating means		
LED indication		see manual
Rotary switch		Setting the IP address
Electrical specifications		
Rated operating voltage	U_e	20 ... 30 V DC
Nominal voltage		24 V DC
Current consumption		typ. 120 mA
Current loading capacity		Max. 2 x 16 A per module (Loop-through current via L-coded power supply) Total current: max. 6.7 A per module
Galvanic isolation		between US and UA
Interface 1		
Interface type		Industrial Ethernet
Physical		M12, D-coded
Protocol		PROFINET IO with media redundancy protocol (MRP) + Modbus TCP + OPC UA + MQTT 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		Port 1: max. 1.6 A Via L+ (pin 1) Port 3: max. 1 A via L+ (pin 1) Ports 2 and 4 – 8: max. 500 mA per port via L+ (pin 1)
Output rated operating 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 , EN 61000-6-4
Standard conformity		
Degree of protection		EN 60529
Fieldbus standard		Type 1 according to IEC 61131-2, EN 61131-9
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		
Ambient temperature		-25 ... 60 °C (-13 ... 140 °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		
Housing length		30 mm
Housing width		65 mm
Housing height		212 mm
Degree of protection		IP67
Connection		Power Supply M12, L-coded Fieldbus M12, D-coded Inputs/Outputs M12, A-coded
Material		
Housing		Molded Polyamide 66

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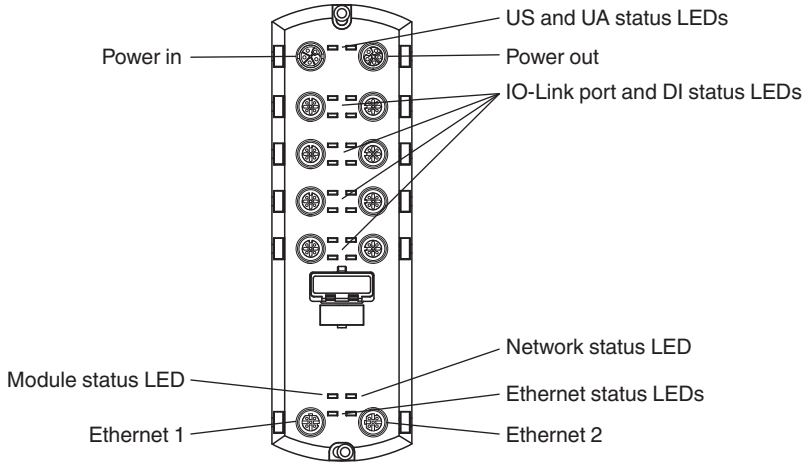
Technical Data

Mass	454 g
Tightening torque, fastening screws	8 Nm
Tightening torque, cable gland	max. 0.5 Nm

Connection



Assembly



Accessories

	**V15L-G-2M-PUR-U-V15L-G**	Cordset, M12 to M12, L-coded, 5-pin, PUR cable
	**V1SD-G-2M-PUR-ABG-V45-G**	Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e

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Accessories

	**V1SD-G-2M-PUR-ABG-V1SD-G**	Ethernet bus cable, M12 to M12, PUR cable 4-pin, CAT5e
	**V1SD-G-ABG-PG9**	Cable connector, M12, 4-pin, D-coded, shielded, non pre-wired
	**V1-G-BK1M-PUR-A-T-V1-G**	Y connecting cable, M12 to 2xM12, 4-pin, PUR cable
	**VAZ-V1-B3**	Blind plug for M12 sockets
	**V1S-T-V1**	Y-Splitter, M12 connector on M12 socket/socket
	**V15L-G-BK**	Single-ended female cordset, M12, L-coded, field attachable
	**MH V1-SCREWDRIVER**	torque screwdriver (0.6 Nm)
	**MH V1-BIT M12**	plug-in cap M12
	**ICA-10DI6DO-G60A-IO**	I/O hub with IO-Link interface for 10 digital inputs and 6 digital outputs
	**ICA-16DIO-G60AL-IO**	I/O hub with IO-Link interface for 16 digital inputs/outputs
	**V15L-G-5M-PUR-U**	Single-ended female cordset, M12, L-coded, 5-pin, PUR cable

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