

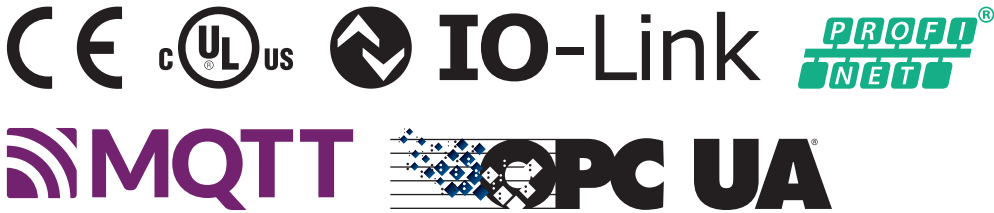


IO-Link master (PNIO/MOD)

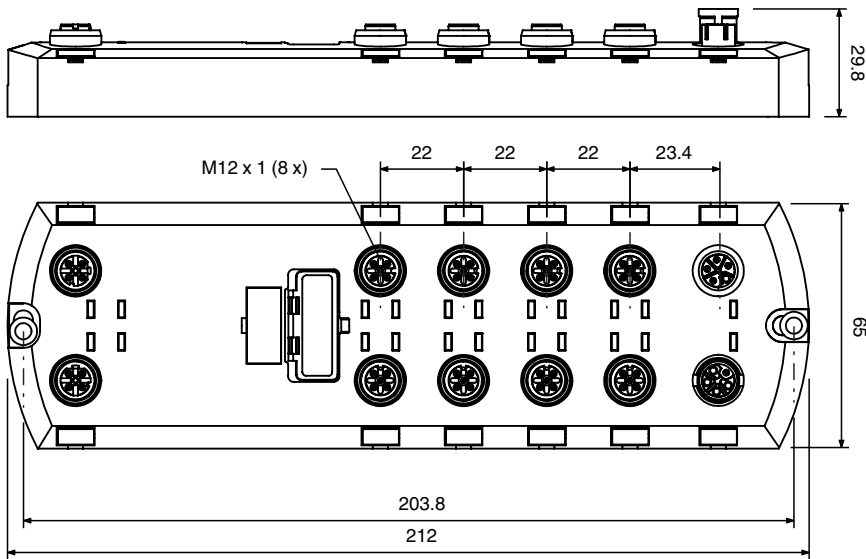
ICE3-8IOL1-G65L-V1D

- PROFINET IO, Modbus/TCP, OPC UA, and MQTT support
- 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

PROFINET and Modbus IO-Link master with 4 x IO-Link Class A and 4 x IO-Link Class B ports



Dimensions



Technical Data

General specifications	
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
General information	M12, L-coded
Nominal voltage	24 V DC
Current consumption	typ. 120 mA

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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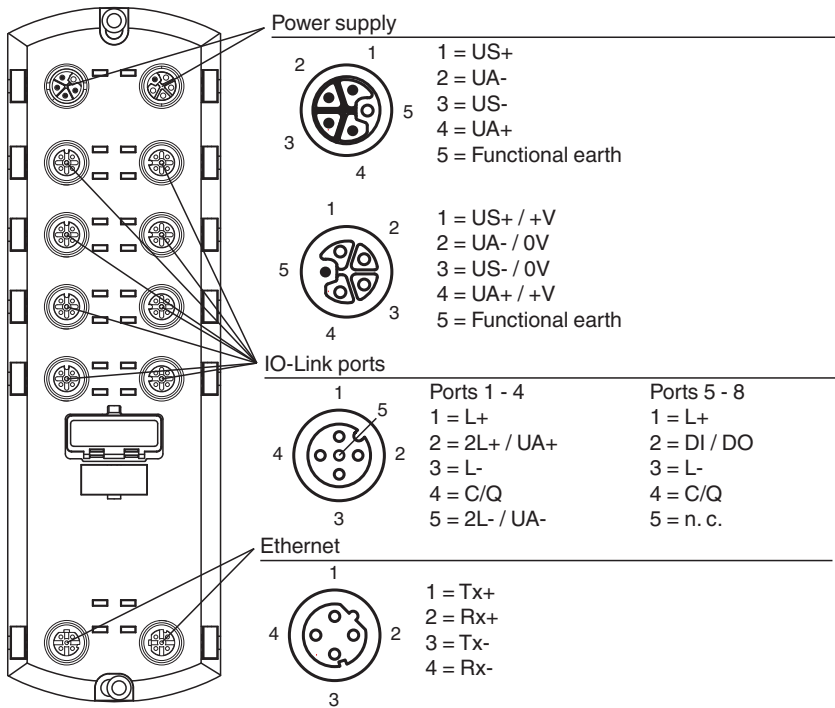
PF PEPPERL+FUCHS

Technical Data

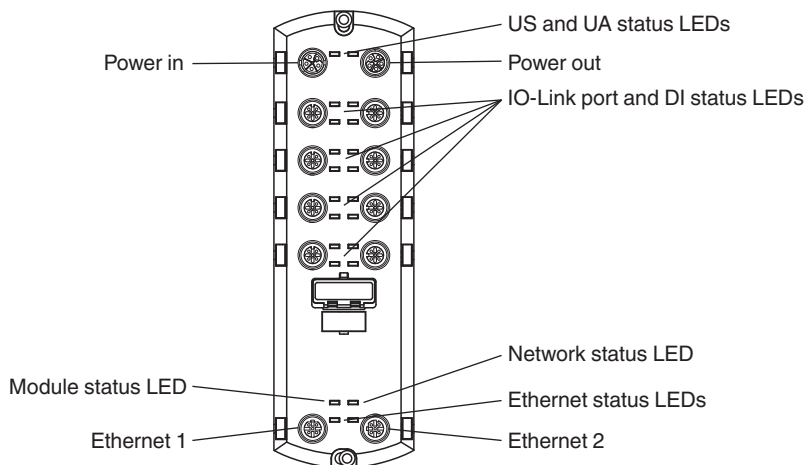
Current loading capacity		Max. 2 x 16 A per module (Loop-through current via L-coded power supply) Total current: max. 6.5 A per module (Class A) Total current: max. 10.4 A per module (Class B)
Galvanic isolation		between US and UA
Interface 1		
Interface type		Industrial Ethernet
Physical		M12, D-coded
Protocol		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		4 x IO-Link Class B (X1 – X4) and 4 x IO-Link Class A (X5 – X8) Configurable as: max. 8 IO-Link and 4 digital inputs or 4 digital outputs max. 12 digital inputs or 16 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)
Output rated operating current	I_e	max. 200 mA Per port via C/Q (pin 4) max. 200 mA Per port via DI/DO (pin 2) on ports 5 - 8
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		
Ambient temperature		-40 ... 70 °C (-40 ... 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		
Housing length		29.8 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
Mass		454 g
Tightening torque, fastening screws		6 Nm
Tightening torque, cable gland		0.6 Nm
Dimensions		65 mm 29.8 mm 212 mm
Mounting		Machine or panel

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Connection



Assembly
















Accessories

	V15L-G-2M-PUR-U-V15L-G	Cordset M12 socket straight to M12 plug straight L-coded, 5-pin, PUR cable grey, UL approved
	V15L-G-5M-PUR-U	Female cordset single-ended M12 straight L-coded, 5-pin, PUR cable grey, UL approved
	V15L-G-BK	Female connector M12 straight L-coded 5-pin, for cable diameter 8 - 13 mm, field-attachable
	V1SD-G-GN2M-PUR-E1S-V45-G	Ethernet bus cable M12 plug straight D-coded to RJ45 Ethernet-coded, 4-pin, PUR cable green, Cat5e, shielded, drag chain suitable
	V1SD-G-GN2M-PUR-E1S-V1D-G	Ethernet bus cable M12 plug straight to M12 plug straight D-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable

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Accessories

	V1SD-G-ABG-PG9	Male connector M12 straight D-coded 4-pin, for cable diameter 5 - 8 mm, shielded, field-attachable
	V1S-T-V1	Y-Splitter M12 plug 5-pin to 2x M12 socket 4-pin A-coded
	V1-G-BK1M-PUR-A-T-V1-G	Y connection cable M12 plug straight A-coded 4-pin to 2x M12 socket straight A-coded 4-pin, 2x PUR cable weld spatter resistant black, UL approved, drag chain suitable, torsion resistant
	V1S-G-PG9	Male connector M12 straight A-coded 4-pin, for cable diameter 6 - 8 mm, field-attachable
	VAZ-V1-B3L	Blind plug for M12 sockets
	MH V1-SCREWDRIVER	Torque screwdriver (0.6 Nm)
	MH V1-BIT M12	plug-in cap M12
	ICA-16DI-G60A-IO	I/O hub with IO-Link interface for 16 digital inputs
	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
	ICA-8DIO-CB10-IO	I/O hub with IO-Link interface
	ICA-AI-I/U-IO-V1	IO-Link converter with analog input (current/voltage)
	ICA-AO-I/U-IO-V1	IO-Link converter with analog output (current/voltage)