

IO-Link master

ICE11-8IOL1-G60L-V1D

- 4x IO-Link ports, Class A and 4x IO-Link ports, Class B
- Multiprotocol-compatible
- M12 power connector, L-coded
- Sturdy metallic housing
- Web-based configuration
- Extended temperature range

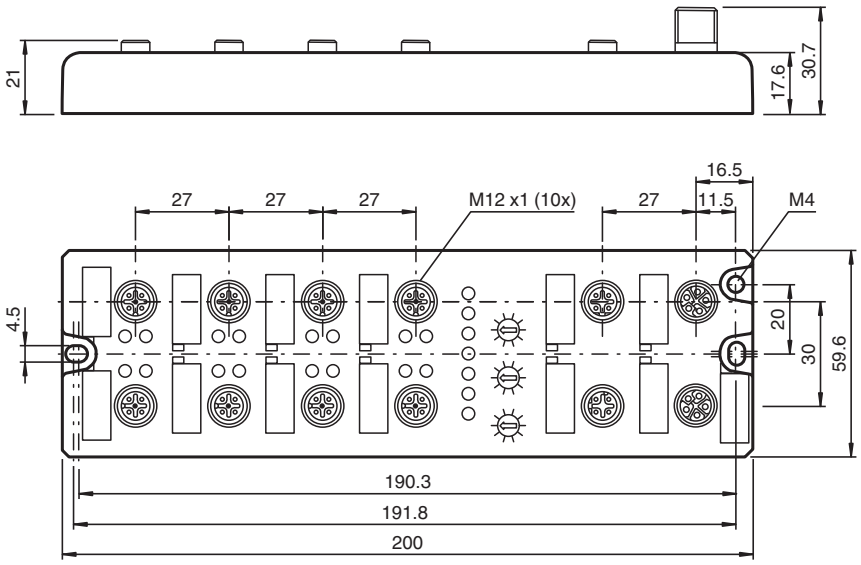
Ethernet IO-Link module with 4x Class A and 4x Class B IO-Link ports

Function

The module is a multiprotocol fieldbus module with 4 x IO-Link ports Class A and 4 x IO-Link ports Class B according to IO-Link standard V1.1.3. The G60L design in fully cast metal housing is resistant to mechanical damage and environmental influences. The G60L has protection class IP65/IP67.
The fieldbus module serves as an interface between the controller of a fieldbus system and the field level. Due to its multiprotocol capability, the fieldbus module supports the Ethernet communication protocols PROFINET, EtherNet/IP, EtherCAT, CC-Link, and MODBUS TCP.

An L-coded M12 connector plug used for supplying power enables a current rating of up to 2 x 16 A via U_S and U_{AUX}. 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.
The communication protocols are configured either manually via a rotary switch or automatically. The diagnostics display status information for each channel via LEDs. An integrated web server enables access to the fieldbus module. Information regarding the status of the module is also displayed and network parameters such as the IP address and subnet mask can be configured.

Dimensions



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Technical Data

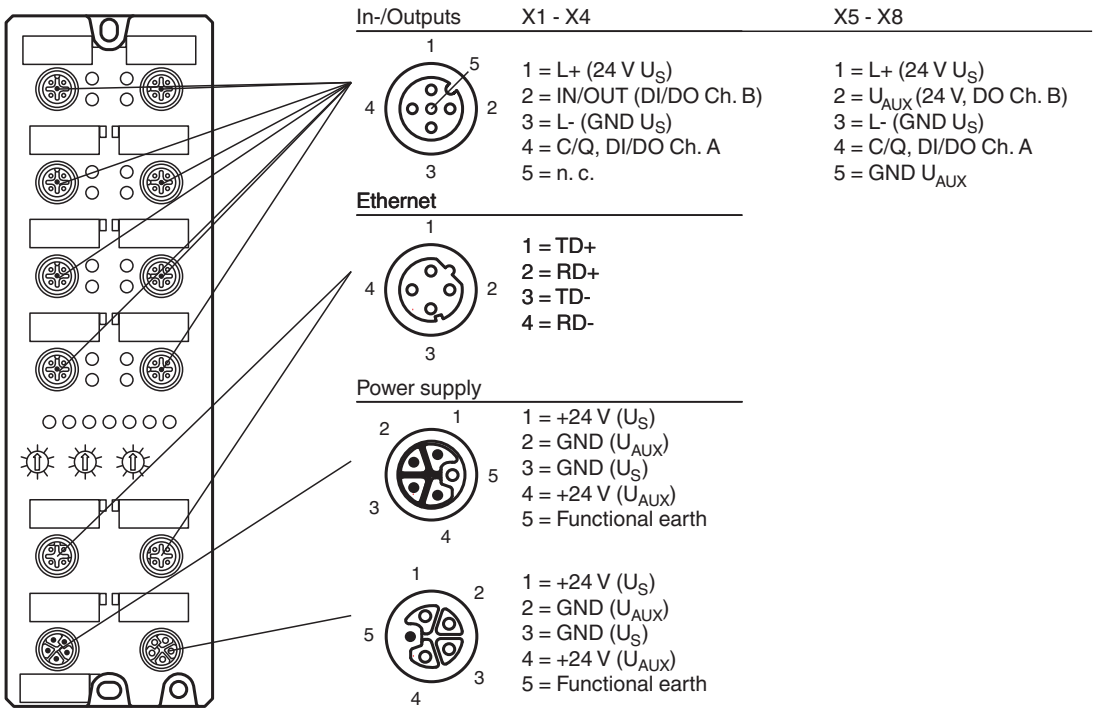
General specifications		
UL File Number		E223772
Indicators/operating means		
LED indication		see manual
Rotary switch		Setting the fieldbus protocol
Electrical specifications		
Rated operating voltage	U_e	20 ... 30 V
Nominal voltage		24 V DC (SELV/PELV)
Current consumption		typ. 160 mA ± 20 % at nominal voltage
Current loading capacity		Max. 2 x 16 A per module max. 9 A via U_S max. 9 A via U_{AUX}
Interface		
Interface type		Industrial Ethernet
Physical		M12, D-coded
Protocol		PROFINET IO , EtherNet/IP , EtherCAT® , CC-Link IE Field Basic , MODBUS TCP
Transfer rate		Fast Ethernet 10/100 Mbps , full duplex
Inputs/Outputs		
Number/Type		4 x IO-Link Class A (X1 - X4) 4 x IO-Link Class B (X5 - X8) configurable as: max. 8 IO-Link and 4 digital inputs/outputs + 4 digital outputs max. 12 digital inputs and 4 digital outputs max. 16 digital outputs short-circuit protected
Sensor supply		max. 4 A per port (X1 - X8) via L+ (pin 1) max. 6.5 A per port pair (X1/X2, X3/X4, X5/X6, X7/X8) max. 5 A per port pair (X1/X2, X3/X4, X5/X6, X7/X8) for UL applications
Output current	I_e	max. 500 mA per port (X1 - X8) via C/Q (Ch. A/pin 4) max. 2 A per port (X1 - X8) via DO (Ch. B/pin 2) max. 5 A total current X5 ... X8 via U_{AUX}
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 55032
Standard conformity		
Degree of protection		EN 60529:2000
Fieldbus standard		Type 1 according to IEC 61131-2
Shock resistance		EN 61131-2:2004
Approvals and certificates		
UL approval		
Maximum permissible operating current		max. 9 A
Ambient conditions		
Ambient temperature		-40 ... 70 °C (-40 ... 158 °F)
Storage temperature		-40 ... 70 °C (-40 ... 158 °F)
Relative humidity		max. 95 %
Altitude		0 ... 2000 m
Shock and impact resistance		50 g, 11 ms, all axes
Vibration resistance		15 g at 5 - 500 Hz
Pollution degree		3
Mechanical specifications		
Contact elements		PA
Degree of protection		IP65/IP67/IP69K
Connection		Power Supply M12, L-coded Fieldbus M12, D-coded Inputs/Outputs M12, A-coded
Material		
Contacts		CuSn, gold-plated CuNi, gold-plated
Housing		Diecast zinc

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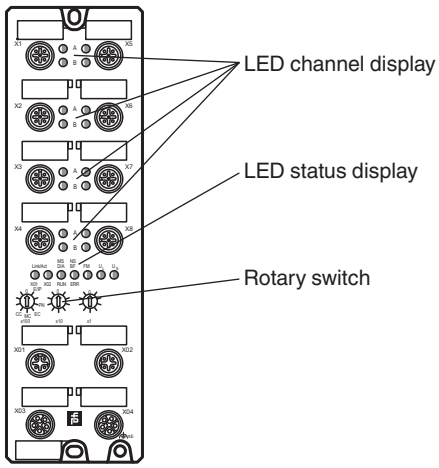
Technical Data

Seal		FKM
Mass		480 g
Tightening torque, fastening screws		1 Nm
Tightening torque, cable gland		0.5 Nm
Dimensions		
Height		200 mm
Width		59.6 mm
Length		21 mm
Construction type		Field housing
Tightening torque of clamping screws		0.5 Nm

Connection



Operation



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