

## Fieldbus module ICE1-16DI-G60L-V1D

- Multiprotocol-compatible
- M12 power connector
- Sturdy metallic housing
- Web-based configuration

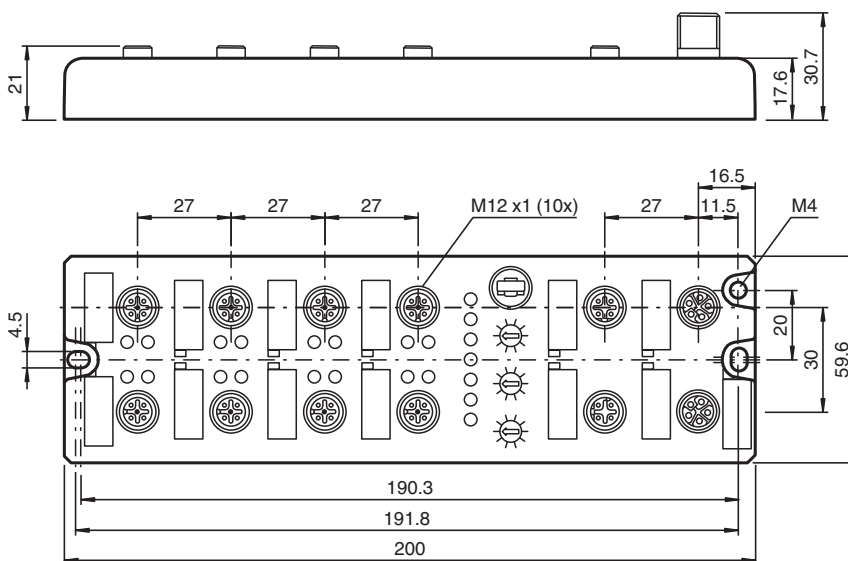
Ethernet IO module with 16 digital inputs



### Function

The ICE1-16DI-G60L-V1D is a multiprotocol fieldbus module with 16 digital inputs. 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. Thanks to its multiprotocol capability, the fieldbus module supports the Ethernet communication protocols PROFINET, EtherNet/IP, and EtherCAT. An L-coded M12 connector plug used for supplying power enables a current rating of up to 2 x 16 A. The inputs 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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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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## Technical Data

<b>General specifications</b>		
UL File Number		E223772
<b>Indicators/operating means</b>		
LED indication		see manual
Rotary switch		Setting the fieldbus protocol
<b>Electrical specifications</b>		
Rated operating voltage	U <sub>e</sub>	18 ... 30 V
Nominal voltage		24 V DC
Current consumption		120 mA
Current loading capacity		Max. 2 x 16 A per module (Loop-through current via L-coded power supply) Total current: max. 9 A per module
<b>Interface 1</b>		
Interface type		Industrial Ethernet
Physical		M12, D-coded
Protocol		PROFINET IO with media redundancy protocol (MRP) EtherNet/IP with Device Level Ring (DLR) EtherCAT
Transfer rate		10/100 Mbps
<b>Input</b>		
Input type		2-, 3-, 4-wire PNP, DC
Number/Type		16 Digital inputs (X1 – X8) short-circuit protected
Supply		24 V DC from U <sub>S</sub>
Input current		5 mA (limited internally)
Sensor supply		max. 200 mA Per port (X1 - X8)
Switching point		
0 (unattenuated)		> -3 VDC ... 5 VDC
1 (attenuated)		> 11 VDC 30 VDC
Fusing		Electronic overload and short-circuit protection
Input filter		3 ms
<b>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61000-6-2:2005, EN 61000-6-4:2007+A1:2011
<b>Standard conformity</b>		
Degree of protection		EN 60529:2000
Emitted interference		EN 61000-6-4:2007+A1:2011
Noise immunity		EN 61000-6-2:2005
Shock resistance		EN 61131-2:2004
<b>Ambient conditions</b>		
Ambient temperature		-20 ... 70 °C (-4 ... 158 °F)
Storage temperature		-40 ... 70 °C (-40 ... 158 °F)
Cold start temperature		-40 °C (-40 °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
<b>Mechanical specifications</b>		
Contact elements		PA
Degree of protection		IP65/IP67/IP69K
Connection		Power Supply M12, L-coded Fieldbus M12, D-coded Inputs M12, A-coded
Material		

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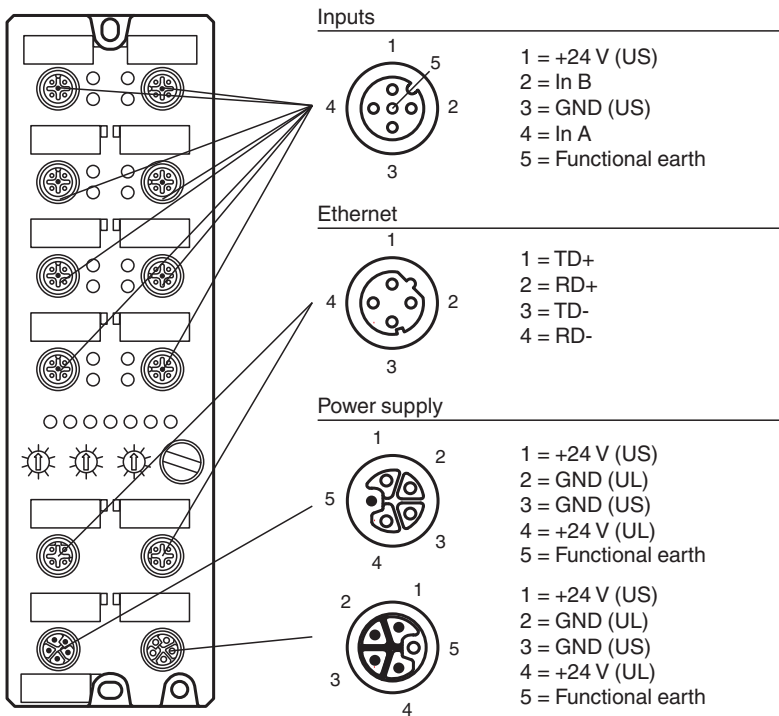
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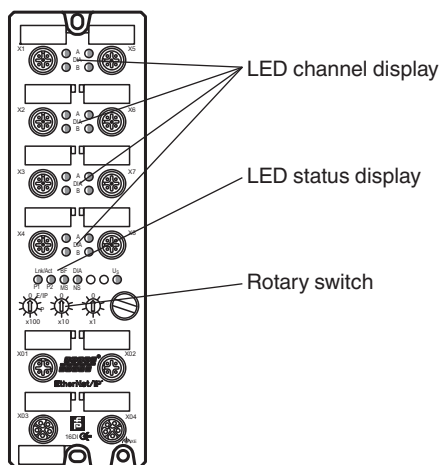
**Technical Data**

Contacts	CuSn, gold-plated CuNi, gold-plated
Housing	Diecast zinc
Seal	FKM
Mass	500 g
Tightening torque, fastening screws	1 Nm
Tightening torque, cable gland	max. 0.5 Nm
Construction type	Field housing
Tightening torque of clamping screws	0.5 Nm

**Connection**
















**Assembly**



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**Accessories**

	<b>V15L-G-0,6M-PUR-U-V15L-G</b>	Cordset, M12 to M12, L-coded, 5-pin, PUR cable
	<b>V15L-G-1M-PUR-U-V15L-G</b>	Cordset, M12 to M12, L-coded, 5-pin, PUR cable
	<b>V15L-G-5M-PUR-U</b>	Single-ended female cordset, M12, L-coded, 5-pin, PUR cable
	<b>V15L-G-2M-PUR-U-V15L-G</b>	Cordset, M12 to M12, L-coded, 5-pin, PUR cable
	<b>V1SD-G-2M-PUR-ABG-V45-G</b>	Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e
	<b>V1SD-G-2M-PUR-ABG-V1SD-G</b>	Ethernet bus cable, M12 to M12, PUR cable 4-pin, CAT5e
	<b>V1SD-G-ABG-PG9</b>	Cable connector, M12, 4-pin, D-coded, shielded, non pre-wired
	<b>V1-G-BK1M-PUR-A-T-V1-G</b>	Y connecting cable, M12 to 2xM12, 4-pin, PUR cable
	<b>V1S-T-V1</b>	Y-Splitter, M12 connector on M12 socket/socket
	<b>VAZ-V1-B3</b>	Blind plug for M12 sockets
	<b>V15L-G-BK</b>	Single-ended female cordset, M12, L-coded, field attachable
	<b>MH V1-SCREWDRIVER</b>	torque screwdriver (0.6 Nm)
	<b>MH V1-BIT M12</b>	plug-in cap M12

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