

I/O hub

ICA-16DI-G16-IO

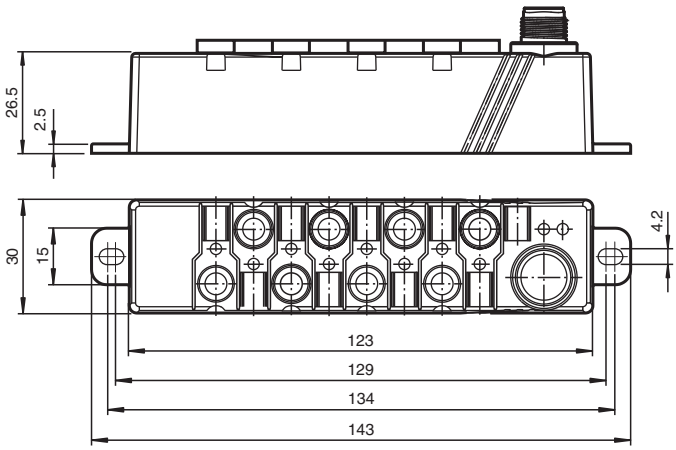
- IO-Link Class A
- IO-Link 1.1.4
- LED for switching state and fault indication
- Configuration and control via IO-Link
- Supply from IO-Link
- 16 digital inputs

I/O hub with IO-Link interface for 16 digital inputs

Function

The ICA-16DI-G16-IO is an IO-Link field module with 16 digital inputs.
The module and the inputs are supplied with power via IO-Link.
The inputs are connected via 4-pin M8 sockets. IO-Link is connected via a 4-pin M12 connector.
The current switching state or an overload of the inputs is indicated via LEDs.

Dimensions



Technical Data

General specifications		
MTBF		172 a
Indicators/operating means		
LED PWR		LED green: flashing with short break (1 Hz) - IO-Link mode
LED IO		Switch state (IO); multicolor LED yellow: only IO pin 4 is active blue: only IO pin 2 is active green: both IO pin 4 and pin 2 are active red: overload at sensor supply or output
Electrical specifications		
Operating voltage	U_B	18 ... 30 V DC, PELV
No-load supply current	I_0	≤ 30 mA
Operating current	I_B	Total current of all inputs max. 3A (limited by fuse)

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Technical Data

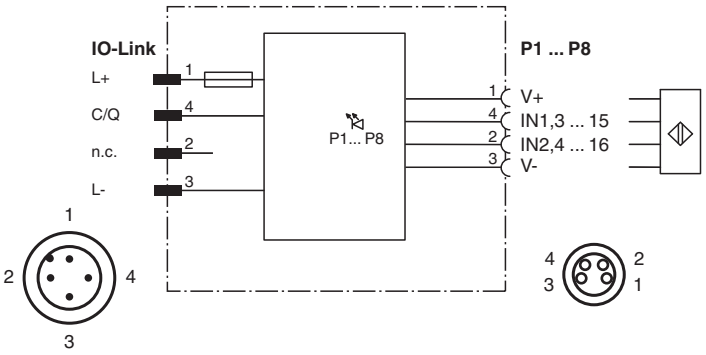
Interface		
Interface type		IO-Link
IO-Link revision		1.1
Device profile		Identification and Diagnosis - I&D Firmware update
Process data		Inputs 3 Byte - Input signals 16 Bit - diagnosis signals 5 Bit
Vendor ID		1 (0x0001)
Device ID		985857 (0x0F0B01)
Data transfer rate		COM3 (230.4 kbits/s)
Min. cycle time		1 ms
SIO mode support		no
Compatible master port type		Class A
Input		
Number/Type		16 Inputs for 3-wire sensors (PNP), DC (IN1 ... IN16)
Supply		from IO-Link
Current loading capacity		180 mA , overload and short-circuit protected
Input current		≤ 5 mA (limited internally)
Switching point		Type 3 according to IEC 61131-2
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 EN 55011:2016
Standard conformity		
Degree of protection		EN 60529:2000
Input		EN 61131-2:2007
Communication interface		IEC 61131-9 / IO-Link V1.1.4
Emitted interference		EN 61000-6-4:2007
Noise immunity		EN 61000-6-2:2005, EN 61326-1:2006
Approvals and certificates		
UL approval		E223772 Power limitation by fuse in accordance with UL248-1, UL248-14, rated current 3 A. Protection of the personnel and the plant is not ensured if the product is not being used according to its intended use. Load specification DC General Use / DC Pilot Duty Degree of protection not tested by UL; tested by Pepperl+Fuchs SE Units shall be connected using CYJV or PVVA cord having suitable ratings min.50 V, min 4 A, min. 100 °C. The product must be installed in accordance with local laws. The device shall be installed on non-flammable, straight surface.
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-25 ... 85 °C (-13 ... 185 °F)
Relative humidity		85 % non-condensing
Climatic conditions		For indoor use only
Altitude		≤ 5000 m above MSL
Shock and impact resistance		30 g, 11 ms in 6 spatial directions, 3 shocks 10 g, 16 ms in 6 spatial directions, 1000 shocks
Vibration resistance		0.35 mm / 5 g 5 ... 500 Hz
Pollution degree		3
Mechanical specifications		
Degree of protection		IP67 / IP68 / IP69k

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Connection		**IO-Link:** M12 round plug connector in accordance with EN 61076-2-101, LM type (4-pin, connector contacts, screw-locking, A-coded) Female connector: LF type or similar **IN:** M8 round plug connector in accordance with EN 61076-2-104, LF type (4-pin, socket contacts, screw-locking, A-coded) Mating connector: LM type or similar
Material		
Housing		PBT
Mass		110 g
Tightening torque, cable gland		0.4 Nm (M12 connector), 0.2 Nm (M8 connector)
Dimensions		
Height		29.35 mm
Width		30 mm
Length		143 mm
Mounting		screw mounting

Wiring Diagram



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