

I/O hub

ICA-16DIO-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/outputs can be configured

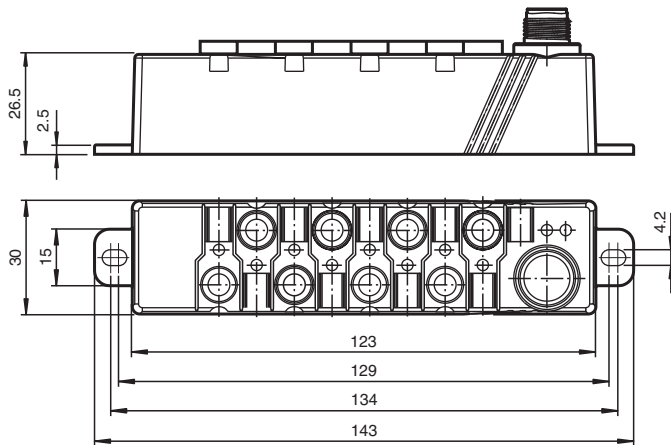
I/O hub with IO-Link interface for 16 freely configurable digital inputs/outputs



Function

The ICA-16DIO-G16-IO is an IO-Link field module with 16 freely configurable digital inputs/outputs. The module and the inputs and outputs are supplied with power via IO-Link. The inputs and outputs 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 or outputs is indicated via LEDs.

Dimensions



Technical Data

General specifications		
MTBF		134 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 Current limitation of the supply max. 4 A
No-load supply current	I_0	≤ 25 mA
Operating current	I_B	max. 4 A

Release date: 2025-07-02 Date of issue: 2025-07-02 Filename: 70168933_eng.pdf

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 Outputs 2 Byte - Output signals 16 Bit
Vendor ID	1 (0x0001)
Device ID	985858 (0x0F0B02)
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 (IO1 ... IO16)
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
Output	
Number/Type	16 electronic outputs, PNP (IO1 ... IO16), overload-proof and short-circuit-proof
Supply	from IO-Link
Voltage	≥ (U _B - 1.5 V)
Current	180 mA per output
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	Load specification DC General Use / DC Pilot Duty Degree of protection not tested by UL; tested by Pepperl+Fuchs SE
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

Technical Data

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 IO: M8 round plug connector in accordance with EN 61076-2-104, LF type (4-pin, bushing 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
Diameter	
Mounting	screw mounting

Connection Assignment

