



## I/O hub

### ICA-16DIO-G11-IO

- IO-Link interface for service and process data
- 16 digital inputs/outputs can be configured
- Logic level can be configured per port
- Filter time can be configured per port
- Pulse extension can be configured per port

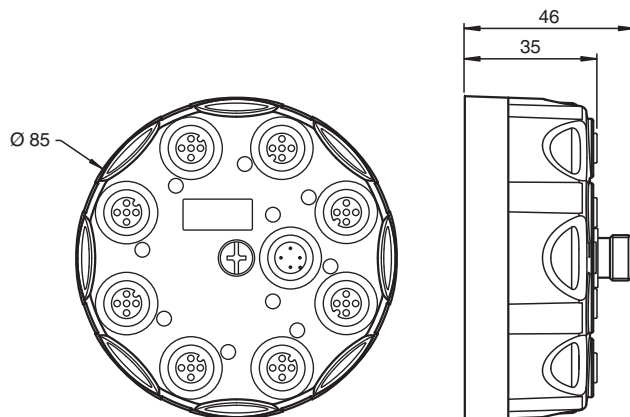
I/O hub with IO-Link interface for 16 freely configurable digital inputs/outputs



### Function

The ICA-16DIO-G11-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 M12 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			144 a
Indicators/operating means			
LED PWR			LED green: flashing with short break (1 Hz) - IO-Link mode
LED P			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	
Interface			
Interface type		IO-Link	

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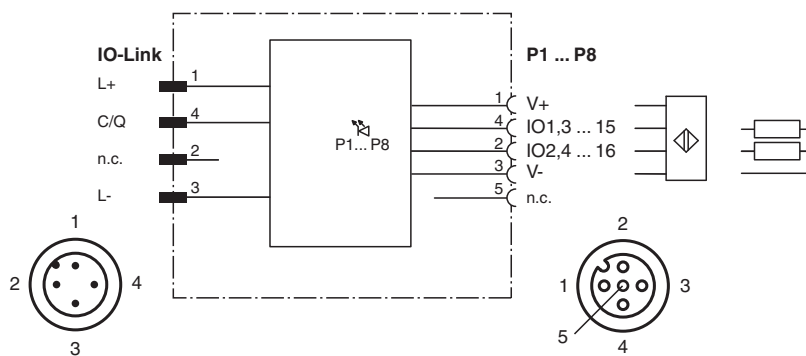
## Technical Data

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	985602 (0x0F0A02)
Data transfer rate	COM3 (230.4 kbits/s)
Min. cycle time	1 ms
SIO mode support	no
Compatible master port type	Class A
<b>Input</b>	
Number/Type	16 Inputs for 3-wire sensors (PNP), DC (P1 ... P8)
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
<b>Output</b>	
Number/Type	16 electronic outputs, PNP (P1 ... P86), overload-proof and short-circuit-proof
Supply	from IO-Link
Voltage	≥ (U <sub>B</sub> - 1.5 V)
Current	180 mA per output
<b>Directive conformity</b>	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 EN 55011:2016
<b>Standard conformity</b>	
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
<b>Approvals and certificates</b>	
UL approval	Load specification DC General Use / DC Pilot Duty Degree of protection not tested by UL; tested by Pepperl+Fuchs SE
<b>Ambient conditions</b>	
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
<b>Mechanical specifications</b>	
Degree of protection	IP68 / IP69K

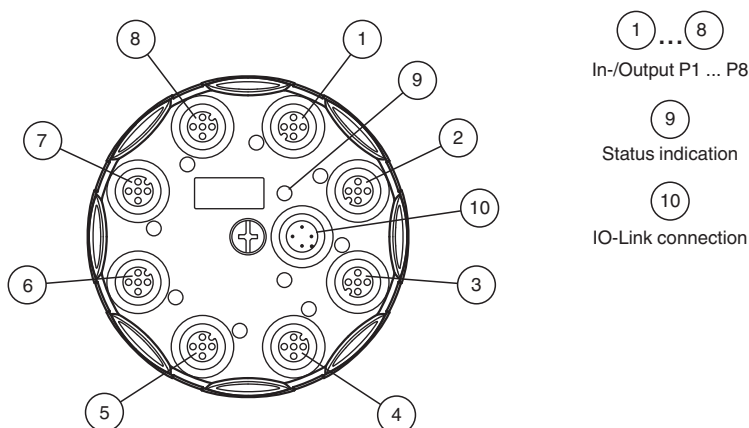
## Technical Data

Connection	<p><b>IO-Link:</b> 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  <b>P:</b> M12 round plug connector in accordance with EN 61076-2-101, LF type (4-pin, socket contacts, screw-locking, A-coded)                  Mating connector: LM type or similar</p>
Material	
Housing	PBT PC
Mounting screw	Stainless steel 1.4305 / AISI 303
Mass	200 g
Tightening torque, housing screws	1.8 Nm
Tightening torque, cable gland	0.4 Nm
Dimensions	
Height	46 mm
Diameter	85 mm
Connection	height 11 mm
Construction type	Field housing
Mounting	Mounting plate

## Connection Assignment



## Assembly



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