

IO-Link converter

ICA-AI-I/U-IO-V1

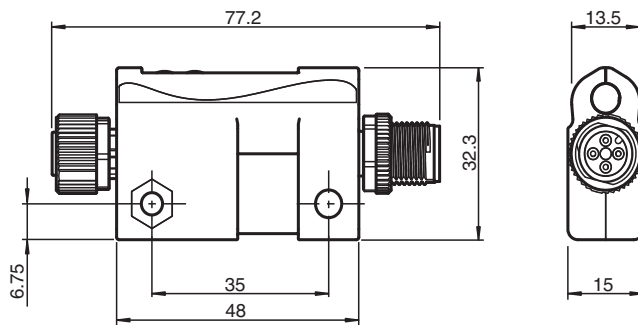


- IO-Link interface
- IP67
- Analog input can be parameterized (current/voltage)
- Current input can be parameterized as 0 ... 20 mA/4 ... 20 mA
- Voltage input can be parameterized as -10 ... 10 V/0 ... 10 V

IO-Link converter with analog input (current/voltage)



Dimensions



Technical Data

General specifications			
UL File Number		E223772	
Functional safety related parameters			
MTTF _d		246 a	
Indicators/operating means			
LED 1		Device status, diagnostics	
LED 2			IO-Link status
Electrical specifications			
Rated operating voltage		U _e	18 ... 30 V
Nominal voltage		24 V DC	
Nominal current			230 mA
Current consumption		typ. 30 mA	
Surge protection			Category II
Interface			
Interface type			IO-Link
IO-Link revision		1.1	
Device ID			0x0F0501 (984321)

Release date: 2024-01-17 Date of issue: 2024-01-17 Filename: 70128166_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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 **PEPPERL+FUCHS**

Technical Data

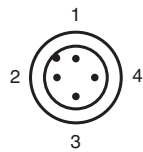
Transfer rate	COM2 (38.4 kBit/s)
Min. cycle time	2.3 ms
Process data width	16 bits / 2 bytes
SIO mode support	no
Compatible master port type	A, B
Input	
Number/Type	1 analog input for sensors with analog output
Sensor supply	17 ... 29.8 V DC ≤ 200 mA
Measurement range	Current input or voltage input, configurable: 0 mA...20 mA 4 mA...20 mA 0 V...10 V -10 V...10 V
Accuracy	0.1 % FS at 25 °C
Resolution	ADC: 24 Bit Process data: 16 bit
Sampling rate	max. 200 Hz
Input filter	Average determination of process data, parameterizable
Temperature influence	45 ppm/°K
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61000-6-2:2005, EN 61000-6-4:2007+A1:2011
Standard conformity	
Degree of protection	EN 60529:2000
Fieldbus standard	IEC 61131-9 / IO-Link V1.1
Emitted interference	EN 61000-6-4
Noise immunity	EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-6
Shock resistance	EN 60068, Part 2-6, Part 2-27
Ambient conditions	
Ambient temperature	-30 ... 70 °C (-22 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Relative humidity	max. 85 %
Climatic conditions	Climatic class 3K3
Altitude	0 ... 2000 m
Shock and impact resistance	50 g, 11 ms, all axes
Pollution degree	3
Mechanical specifications	
Degree of protection	IP67
Connection	IO-Link M12, A-coded Input M12, A-coded
Material	
Contacts	Zinc, CuNi plated
Housing	Plastic PC + PBT
Mass	44 g
Dimensions	
Height	32.3 mm
Width	15 mm
Length	77.2 mm
Construction type	Field housing

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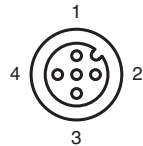
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 **PEPPERL+FUCHS**

Connection Assignment



- 1: +24 V (L+)
- 2: n.c.
- 3: GND (L-)
- 4: C/Q



- 1: +24 V (L+)
- 2: AI
- 3: GND (L-)
- 4: n.c.

Indication

