

Overview

- distance measuring
- 0 ... 3 mm
- PNP / push-pull
- IO-Link
- connector M8
- -25 ... 75 °C
- IP 67



Picture similar



Technical data

General data		Electrical data	
Mounting type	Flush	Output current	< 100 mA
Special type	Linearized	Short circuit protection	Yes
Type	Distance measuring	Reverse polarity protection	Yes
Measuring distance Sd	0 ... 3 mm	Communication interface	
Resolution	< 0,005 mm (High Accuracy Mode)	Interface	IO-Link V1.1
Repeat accuracy	< 0,01 mm	Baud rate	230,4 kBaud (COM 3)
Adjustment	IO-Link	Cycle time	≥ 0,6 ms
Teach	Single point, Two point, Window	Process data length	32 Bit
Linearity error	± 10 µm (S = 0 ... 2 mm) ± 90 µm (S = 0 ... 3 mm)	Process data structure	Bit 0 = SSC1 (distance) Bit 1 = SSC2 (distance) Bit 3 = alarm Bit 4 = SSC3 (frequency) Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
Temperature drift	± 2 % (Full Scale; S = 0 ... 2 mm) ± 3 % (Full Scale; S = 0 ... 3 mm)	IO-Link port type	Class A
Hysteresis	< 99 % (adjustable)	Adjustable parameters	Measuring range Switching point Switching hysteresis Measured value filtering Time filters LED status indicators Output logic Output circuit Counter Deactivate the sensor element Find Me function
Power on indication	LED green		
Output indicator	LED yellow		
Electrical data			
Response time (factory characteristic)	< 1 ms		
Switching frequency	< 1,25 kHz		
Voltage supply range +Vs	8 ... 36 VDC		
Current consumption max. (no load)	15 mA		
Output circuit	PNP Push-pull IO-Link		

Technical data

Communication interface

Additional data	Distance
	Frequency
	Operating cycles
	Operating hours
	Boot cycles
	Operating voltage
	Device temperature
	Histograms

Mechanical data

Type	Cylindrical smooth
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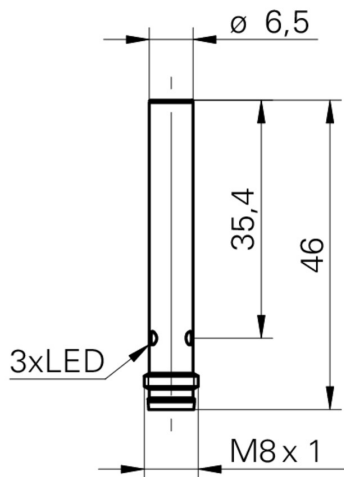
Mechanical data

Housing material	Stainless steel
Dimension	6,5 mm
Housing length	46 mm
Connection types	Connector M8

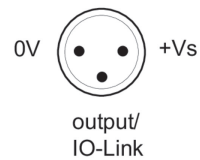
Ambient conditions

Operating temperature	-25 ... +75 °C
Protection class	IP 67

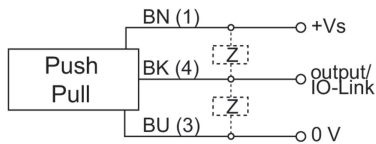
Dimension drawing



Pin assignment



Connection diagram



Resolution

