Baumer
Passion for Sensors

Inductive distance sensors

IF08.D03L-Q25.GP1I.7VNU

Inductive distance sensors - miniature

Article number: 11244232

Overview

- Distance measuring
- 0 … 3 mm
- PNP / push-pull
- IO-Link
- flylead connector M8
- -20 … 70 °C
- IP 67

Picture similar

Technical data

General data	
Mounting type	Quasi-flush
Special type	Linearized
Type	Distance measuring
Measuring distance Sd	0 … 3 mm
Resolution	< 0.005 mm (High Accuracy Mode)
Repeat accuracy	0.01 mm
Adjustment	IO-Link
Teach	Single point, Two point, Window
Linearity error	± 10 µm (S = 0 ... 2 mm) ± 90 µm (S = 0 ... 3 mm)
Temperature drift	± 2 % (Full Scale: S = 0 ... 2 mm) ± 6 % (Full Scale: S = 0 ... 3 mm)
Hysteresis	< 99 % (adjustable)
Electrical data	
Response time (factory characteristic)	< 1 ms
Switching frequency	1.25 kHz
Voltage supply range +Vs	8 … 30 VDC
Current consumption max. (no load)	15 mA
Output circuit	PNP Push-pull IO-Link
Output current	50 mA
Short circuit protection	Yes

Electrical data	
Reverse polarity protection	Yes
Mechanical data	
Design	Rectangular
Material (sensing face)	PBT
Housing material	Stainless steel
Dimension	8 mm
Housing length	24.6 mm
Connection types	Flylead connector PUR M8, L=200 mm
Tightening torque max.	0.8 Nm
Ambient conditions	
Operating temperature	-20 … +70 °C
Protection class	IP 67
Communication interface	
Interface	IO-Link V1.1
Baud rate	230,4 kBaud (COM 3)
Cycle time	≥ 0.6 ms
Process data length	32 Bit
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
IO-Link port type	Class A

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Technical data

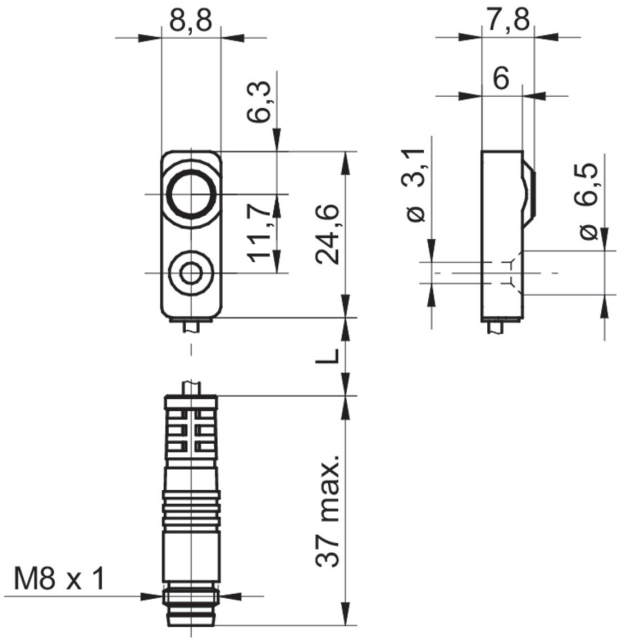
Communication interface

Adjustable parameters	Measuring range Switching point Switching hysteresis Measured value filtering Time filters Output logic Output circuit Counter Deactivate the sensor element

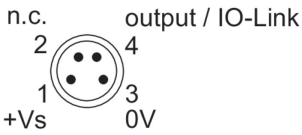
Communication interface

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

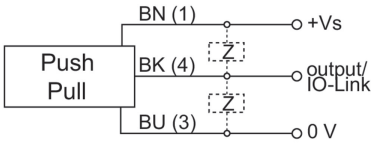
Dimension drawing



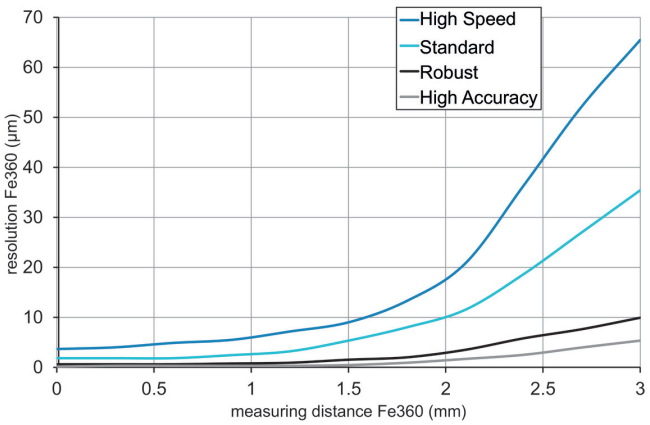
Pin assignment



Connection diagram



Resolution



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