

**Overview**

- Ultra-flat design for installation in confined spaces
- Large measuring range 0 ... 12 mm
- Robust plastic housing with metal sleeves
- Additional mounting material for easy installation on tubes
- IO-Link: Application-specific setting and extended diagnostic Data



Picture similar



**Technical data**

**General data**

Mounting type	Non-flush
Special type	Linearized
Type	Distance measuring
Measuring distance Sd	0 ... 12 mm
Resolution	< 0.12 mm (High Accuracy Mode)
Repeat accuracy	0.12 mm (High Accuracy Mode)
Adjustment	IO-Link
Teach	Single point, Two point, Window
Linearity error	± 150 µm (S = 0 ... 9 mm) ± 400 µm (S = 0 ... 12 mm)
Temperature drift	± 4 % (Full Scale)
Hysteresis	< 99 % (adjustable)
Power on indication	LED green
Output indicator	LED yellow
Correction factor typ.	Mild steel 100 %, stainless steel 70 %, aluminum 50 %

**Electrical data**

Response time (factory characteristic)	< 1.8 ms (High Speed Mode) < 3 ms (Standard Mode) < 25 ms (Robust Mode) < 50 ms (High Accuracy Mode)
Switching frequency	280 Hz (High Speed Mode) 80 Hz (Standard Mode) 20 Hz (Robust Mode) 10 Hz (High Accuracy Mode)
Voltage supply range +Vs	6 ... 36 VDC
Current consumption max. (no load)	18 mA

**Electrical data**

Output circuit	PNP Push-pull IO-Link
Output current	100 mA
Voltage drop Vd	<2 VDC
Short circuit protection	Yes
Reverse polarity protection	Yes

**Mechanical data**

Design	Rectangular
Material (sensing face)	PA
Housing material	PA 12
Dimension	25 mm
Housing length	52.4 mm
Connection types	Cable, L=2 m
Weight	36 g
Cable characteristics	PVC 3 x 0.14 mm <sup>2</sup>

**Ambient conditions**

Operating temperature	-25 ... +75 °C
Storage temperature range	-40 ... +75 °C
Protection class	IP 67
Vibration resistance	IEC 60068-2-6:2008 10 g at f = 10 - 2000 Hz, duration 150 min per axis
Shock resistance	IEC 60068-2-27:2009 100 g / 6 ms, 10 jolts per axis and direction

**Communication interface**

Interface	IO-Link V1.1
Baud rate	230,4 kBaud (COM 3)
Cycle time	≥ 0.6 ms
Process data length	32 Bit

**Technical data**

**Communication interface**

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
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IO-Link port type

Class A

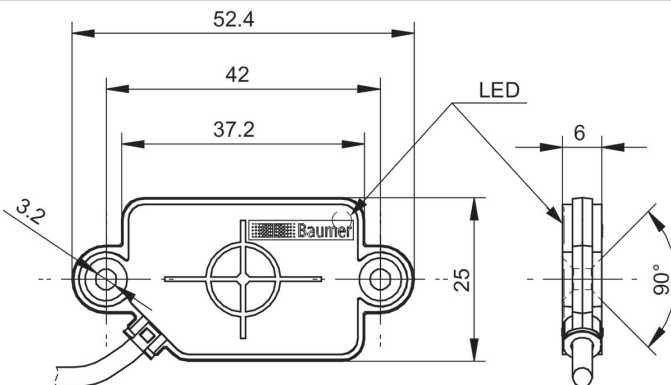
Adjustable parameters

- 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

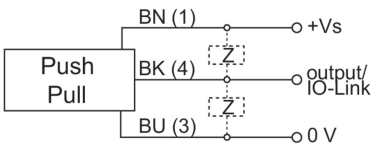
**Communication interface**

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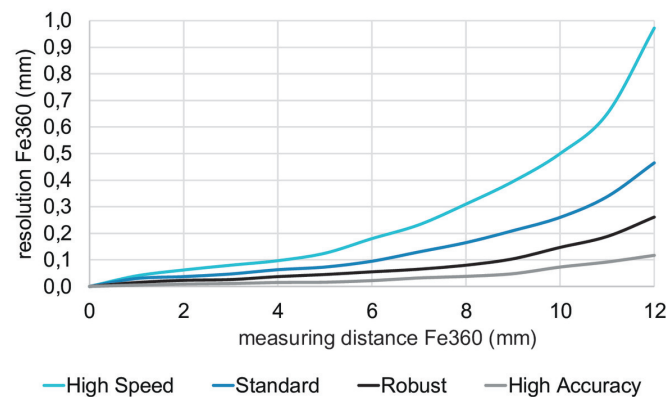
**Dimension drawing**



**Connection diagram**



**Resolution**



**Correction factors for different mounting situation (approx.)**



Mounting material:	Correction factor
Non-metal:	100 %
Construction steel:	110 %
Stainless steel:	95 %
Aluminium:	90 %

**Mounting instructions**

