

#### overview

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



#### Technical data

##### general data

mounting type	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) ± 3 % (Full Scale; S = 0 ... 3 mm)
hysteresis	< 99 % (adjustable)
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	push-pull / IO-Link
output current	< 100 mA
short circuit protection	yes
reverse polarity protection	yes

##### communications 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

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

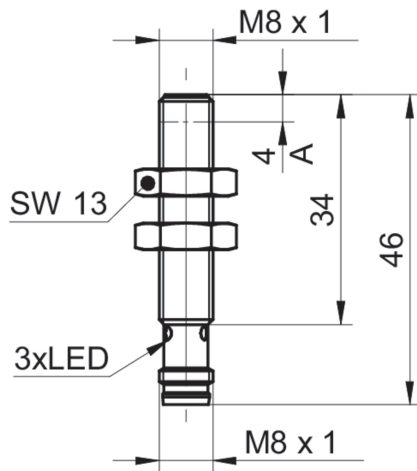
additional data  
distance  
frequency  
operating cycles  
operating hours  
boot cycles  
operating voltage  
device temperature  
histograms

## Technical data

### mechanical data

type	cylindrical threaded
housing material	stainless steel
dimension	8 mm
housing length	46 mm

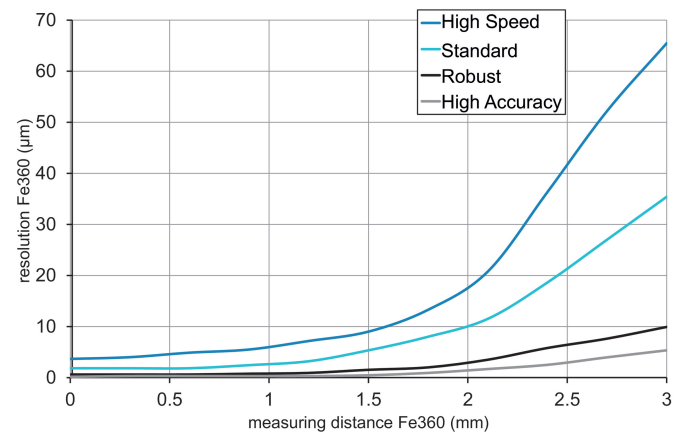
### dimension drawing



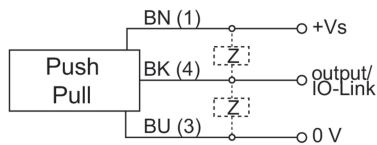
### mechanical data

connection types	connector M8
tightening torque max.	10 Nm (A: 7 Nm)
<b>ambient conditions</b>	
operating temperature	-25 ... +75 °C
protection class	IP 67

### resolution



## connection diagram



## pin assignment

