

overview

- distance measuring
- 0 ... 6 mm
- push-pull / IO-Link
- IO-Link
- connector M12
- 25 ... 75 °C
- IP 67



Technical data

general data

mounting type	flush
special type	linearized
type	distance measuring
measuring distance Sd	0 ... 6 mm
resolution	< 0,003 mm (High Accuracy Mode)
repeat accuracy	< 0,01 mm
adjustment	IO-Link
teach	Single point, Two point, Window
linearity error	± 25 µm (S = 0 ... 4 mm) ± 60 µm (S = 0 ... 6 mm)
temperature drift	± 2 % (Full Scale; S = 0 ... 4 mm) ± 3 % (Full Scale; S = 0 ... 6 mm)
hysteresis	< 99 % (adjustable)
power on indication	LED green
output indicator	LED yellow

electrical data

response time (factory characteristic)	< 1 ms
switching frequency	< 1 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	brass nickel plated
dimension	12 mm
housing length	50 mm

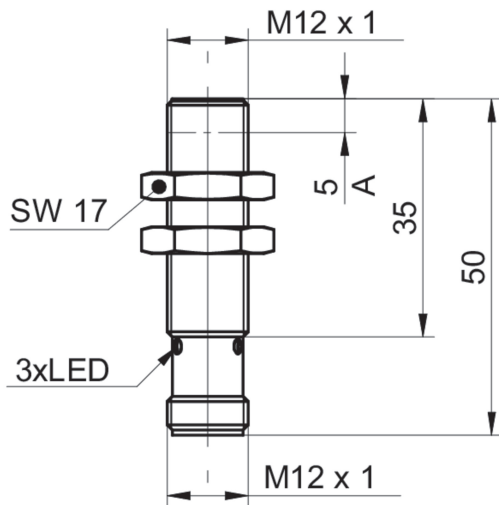
mechanical data

connection types	connector M12
tightening torque max.	15 Nm (A: 10 Nm)

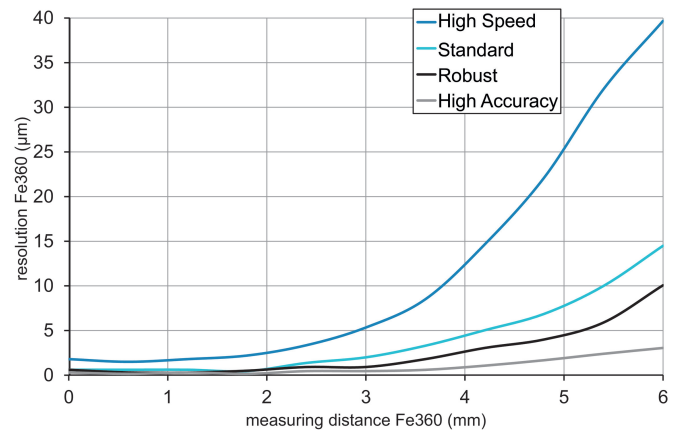
ambient conditions

operating temperature	-25 ... +75 °C
protection class	IP 67

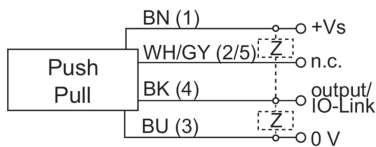
dimension drawing



resolution



connection diagram



pin assignment

