

**Overview**

- Large measuring range from 0...10 mm
- IO-Link switching output and additional analog output
- Simple commissioning due to linearized output signal
- Application-specific setting by qTeach or Teach via IO-Link
- Extended IO-Link diagnostic data and histograms
- Robust plastic housing usable up to +75°C



Picture similar



**Technical data**

**General data**

Mounting type	Non-flush
Special type	Linearized
Particular characteristics	IO-Link dual channel
Type	Distance measuring
Measuring distance Sd	0 ... 10 mm
Resolution	< 0.020 mm (High Accuracy Mode)
Repeat accuracy	0.020 mm
Adjustment	qTeach IO-Link
Teach	Single point, Two point, Window
Linearity error	± 40 µm (S = 0 ... 8 mm) ± 60 µm (S = 0 ... 10 mm)
Temperature drift	± 2 % (Full Scale)
Hysteresis	< 99 % (adjustable)
Power on indication	LED green
Output indicator	LED yellow

**Electrical data**

Response time (factory characteristic)	< 0.6 ms (High Speed Mode) < 0.9 ms (Standard Mode) < 2.3 ms (Robust Mode) < 10.5 ms (High Accuracy Mode)
Switching frequency	800 Hz (High Speed Mode) 500 Hz (Standard Mode) 150 Hz (Robust Mode) 30 Hz (High Accuracy Mode)
Voltage supply range +Vs	12 ... 30 VDC
Current consumption max. (no load)	25 mA
Output circuit	PNP Push-pull Analog 0 ... 10 VDC IO-Link

**Electrical data**

Load resistance	> 10 kOhm
Output current	100 mA
Voltage drop Vd	<2.5 VDC
Short circuit protection	Yes
Reverse polarity protection	Yes

**Mechanical data**

Design	Rectangular
Material (sensing face)	SAN
Housing material	SAN
Dimension	20 mm
Housing length	41 mm
Connection types	Cable PVC, 2 m

**Ambient conditions**

Operating temperature	-25 ... +75 °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

**Technical data**

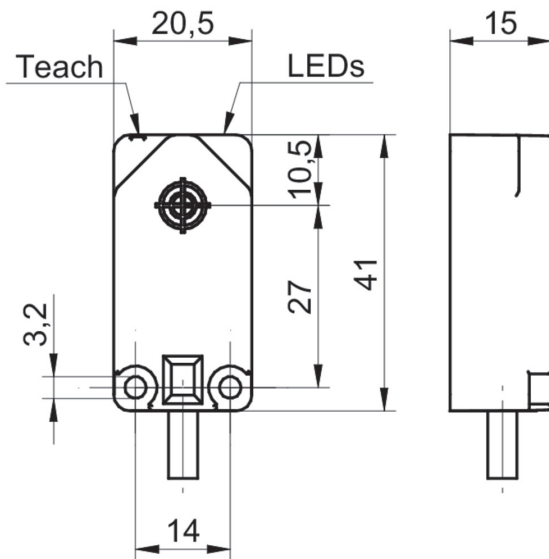
**Communication interface**

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

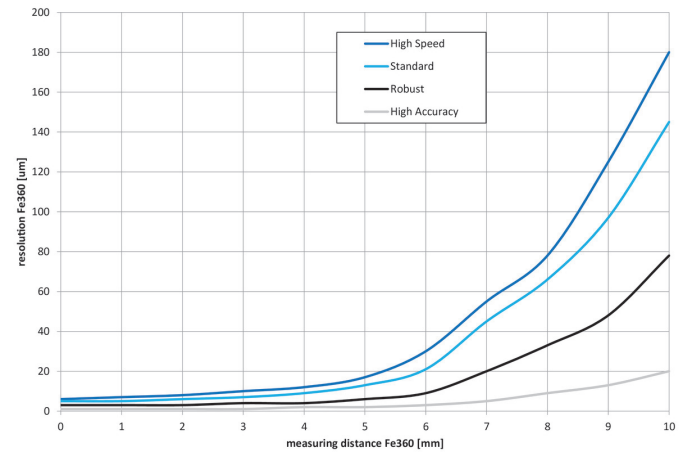
**Communication interface**

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

**Dimension drawing**



**Resolution**



**Connection diagram**

