Baumer
Passion for Sensors

Inductive distance sensors

IF200.D10L-Q41.DPMO.71N/A014

Article number: 11241894

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
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
Output current	< 100 mA
Short circuit protection	Yes

Electrical data	
Reverse polarity protection	Yes
Mechanical data	
Type	Rectangular
Housing material	SAN
Dimension	20 mm
Housing length	41 mm
Connection types	Connector M8
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

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Technical data

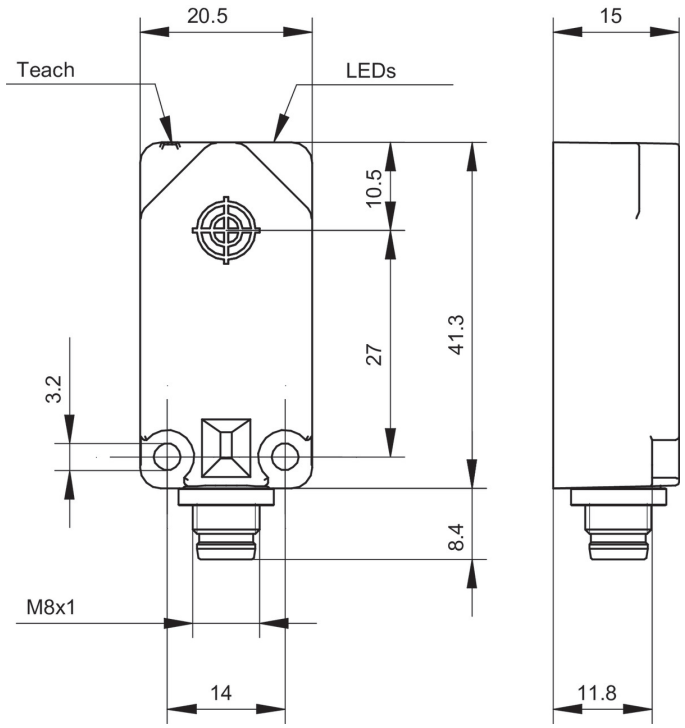
Communication interface

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

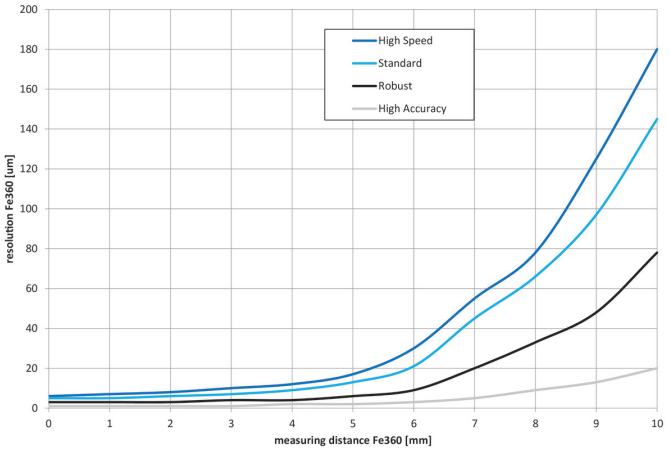
Communication interface

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

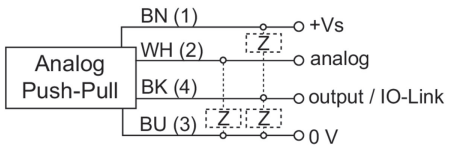
Dimension drawing



Resolution



Connection diagram



Pin assignment