

# 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







General data	
Mounting type	Non-flush
<b>0</b> ,,	Linearized
Special type 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	Connector M8 4 pin
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

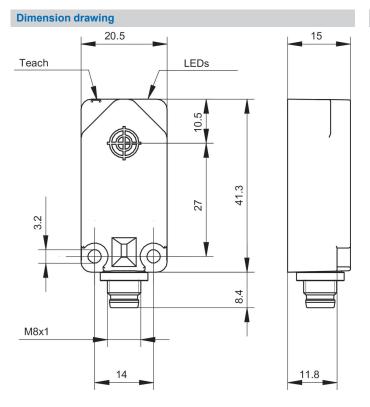
Counter
Deactivate the sensor element

#### Communication interface

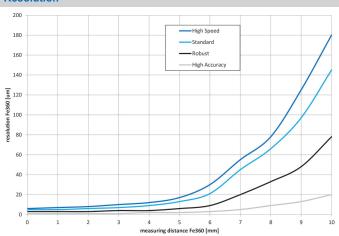
Additional data

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

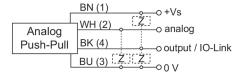
Find Me function



### Resolution



## **Connection diagram**



#### Pin assignment

www.baumer.com

