Baumer
Passion for Sensors

Inductive distance sensors

IR30.D18L-F60.GP2I.7BF/A014

Article number: 11236710

Overview

- distance measuring
- 0 … 18 mm
- PNP / push-pull
- IO-Link Dual-channel
- connector M12
- -25 … 75 °C
- IP 67

Picture similar

Technical data

General data	
Mounting type	Flush
Special type	Linearized
Type	Distance measuring
Measuring distance Sd	0 … 18 mm
Resolution	< 0,01 mm (High Accuracy Mode)
Repeat accuracy	< 0,02 mm
Adjustment	IO-Link
Teach	Single point, Two point, Window
Linearity error	± 360 µm
Temperature drift	± 6 % (Full Scale)
Hysteresis	< 99 % (adjustable)
Power on indication	LED green
Output indicator	LED yellow
Electrical data	
Response time (factory characteristic)	< 2 ms
Switching frequency	< 600 Hz
Voltage supply range +Vs	8 … 36 VDC
Current consumption max. (no load)	20 mA
Output circuit	PNP Push-pull IO-Link dual channel
Output current	< 100 mA
Short circuit protection	Yes

Electrical data	
Reverse polarity protection	Yes
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
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

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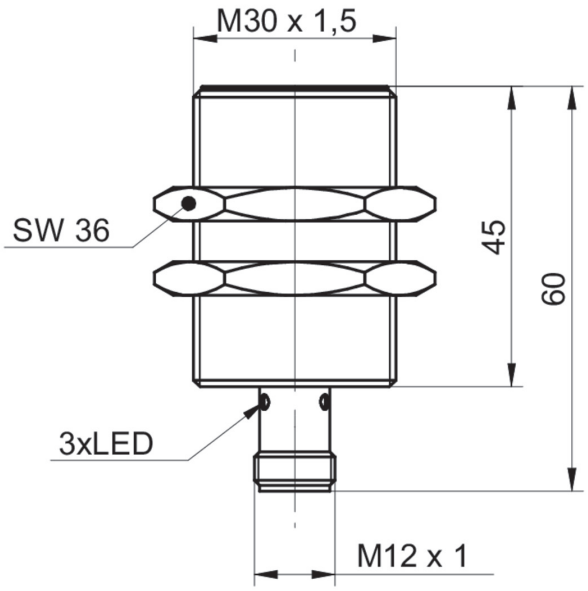
Technical data

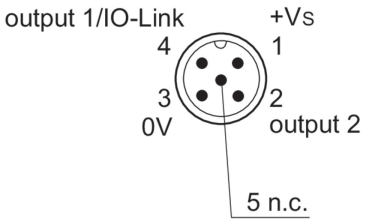
Communication interface	
Additional data	Distance Frequency Operating cycles Operating hours Boot cycles Operating voltage Device temperature Histograms
Mechanical data	
Type	Cylindrical threaded

Mechanical data	
Housing material	Brass nickel plated
Dimension	30 mm
Housing length	60 mm
Connection types	Connector M12
Tightening torque max.	100 Nm
Ambient conditions	
Operating temperature	-25 … +75 °C
Protection class	IP 67

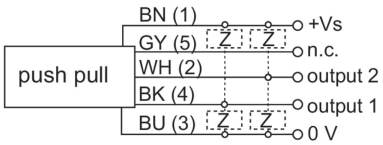
Dimension drawing



Pin assignment



Connection diagram



Resolution