Inductive distance sensors

IR30.D24L-N60.IA1E.7BO

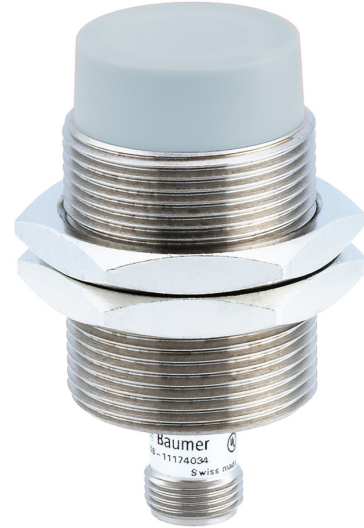Inductive distance sensors

Article number: 11179051

Overview

- 0 … 24 mm
- current output
- external Teach-in
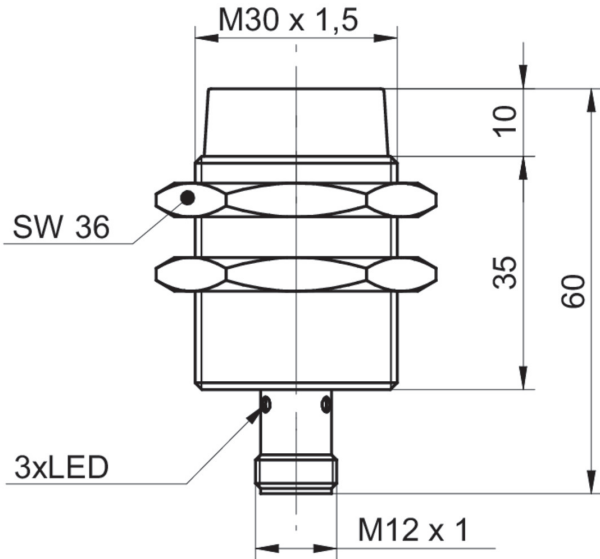- connector M12
- -25 … 75 °C
- IP 67

Picture similar

Technical data

General data

Mounting type	Non-flush
Special type	Linearized
Measuring distance Sd	0 … 24 mm
Sensitivity	0,67 mA/mm
Resolution	< 0.005 mm (stat.) < 0.01 mm (dynam.)
Repeat accuracy	0.02 mm
Adjustment	External Teach-in
Teach	1-point analog, 2-point analog, factory reset
Linearity error	± 480 µm
Temperature drift	± 6 % (Full Scale)
Teach-Feedback	LED yellow

Electrical data

Response time (factory characteristic)	< 5 ms
Voltage supply range +Vs	8 … 36 VDC
Current consumption max. (no load)	20 mA

Electrical data

Output circuit	Analog 4 ... 20 mA
Load resistance	< 50 Ohm/V * Vs - 250 Ohm > 500 Ohm (Vs = 30 … 36 VDC)
Short circuit protection	Yes
Reverse polarity protection	Yes

Mechanical data

Design	Cylindrical threaded
Material (sensing face)	PBT
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

Remarks

- External Teach-in
- Linear analog output

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Dimension drawing

M30 x 1,5

SW 36

10

35

60

3xLED

M12 x 1

Connection diagram

BN (1) — +Vs
WH/GY (2/5) — teach-in
Analog I
BK (4) — output
BU (3) — Z — 0 V

Pin assignment

teach-in   +Vs
2   1
3   4
0V   output

5 teach-in
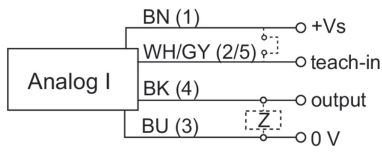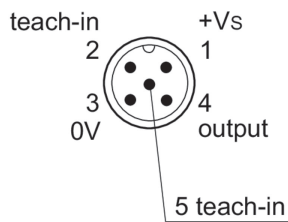
Accessories	
Mounting accessories	
11200030	11200030
11199998	ZADAP-M30.STANDARD
11199999	ZADAP-M30.LONG
11707685	Mounting rod with mounting plate holder 200 mm
11707686	Mounting rod with mounting plate holder 300 mm
11707688	Mounting rod 200 mm
11707697	Mounting rod 250 mm
11707698	Mounting rod with mounting plate holder 250 mm
11707687	Mounting rod 300 mm
11707700	Mounting plate ø30 mm
11707702	Mounting base
11707703	Two-way connector

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