Inductive distance sensors

IR12.D06S-Q50.IA1Z.7BO

Inductive distance sensors

Article number: 11141039

Overview

- 0 … 6 mm
- current output
- connector M12
- -25 … 75 °C
- IP 67

Picture similar

Technical data

General data

Mounting type	Quasi-flush
Measuring distance Sd	0 … 6 mm
Resolution	< 0.005 mm (stat.) < 0.01 mm (dynam.)
Repeat accuracy	0.01 mm
Linearity error	± 300 µm (S = 1,5 ... 4,5 mm) ± 720 µm (S = 0 ... 6 mm)
Temperature drift	± 4 % (Full Scale: 0 ... +60 °C) ± 6 % (Full Scale: -25 ... +75 °C)

Electrical data

Response time (factory characteristic)	< 1 ms
Voltage supply range +Vs	8 … 36 VDC
Current consumption max. (no load)	10 mA
Output circuit	Analog 4 ... 20 mA

Electrical data

Load resistance	< 50 Ohm/V * Vs - 150 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	12 mm
Housing length	50 mm
Connection types	Connector M12
Tightening torque max.	15 Nm (A: 10 Nm)

Ambient conditions

Operating temperature	-25 … +75 °C
Protection class	IP 67

Dimension drawing
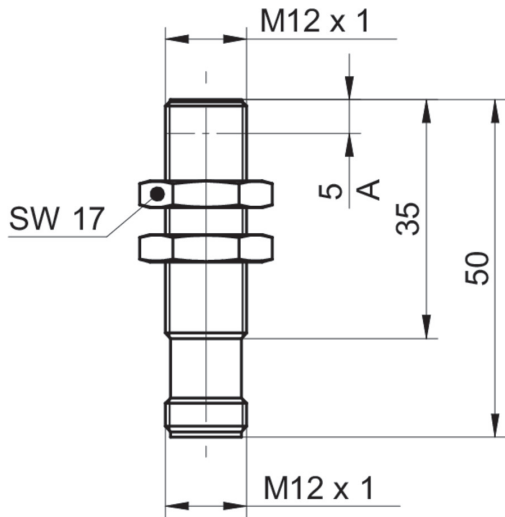
Connection diagram

Pin assignment

2024-11-29
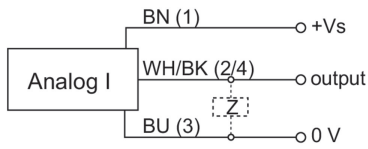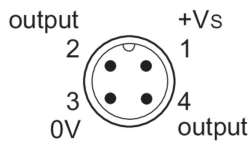
Accessories	
Mounting accessories	
10151720	Sensofix series 12 round
11707685	Mounting rod with mounting plate holder 200 mm
11707686	Mounting rod with mounting plate holder 300 mm
11707688	Mounting rod 200 mm
11707697	Mounting rod 250 mm
11707698	Mounting rod with mounting plate holder 250 mm
11707687	Mounting rod 300 mm
11707701	Mounting plate series 300 and ø12 mm
11707702	Mounting base
11707703	Two-way connector