Baumer
Passion for Sensors

Inductive proximity sensor

IR12.P04S-F50.NV1Z.7BO

Inductive proximity switch - standard

Article number: 11204689

Overview

- 4 mm
- NPN complementary (NO / NC)
- connector M12
- -25 … 75 °C
- IP 67



Picture similar

Technical data

General data	
Mounting type	Flush
Nominal sensing distance Sn	4 mm
Temperature drift	± 10 %
Hysteresis	3 … 20 % of Sr
Output indicator	3 port LED red
Correction factor typ.	Mild steel 100 %, stainless steel 80 %, aluminum 50 %
Electrical data	
Switching frequency	2 kHz
Voltage supply range +Vs	6 … 36 VDC
Current consumption max. (no load)	10 mA
Output circuit	NPN complementary (NO / NC)
Voltage drop Vd	<2 VDC

Electrical data	
Output current	200 mA
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

Remarks

- Complementary output

The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.
2026-06-01

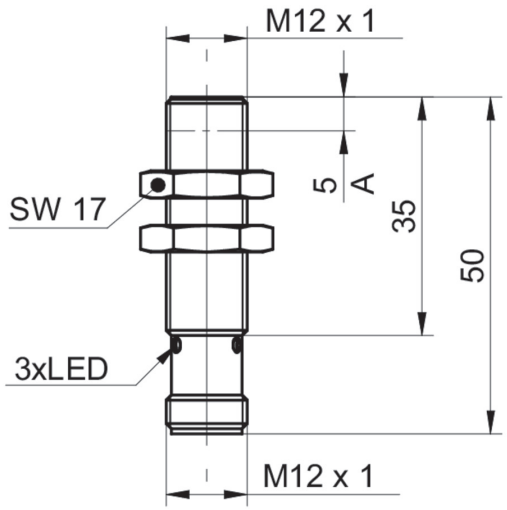
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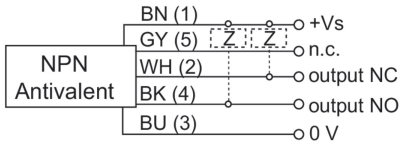
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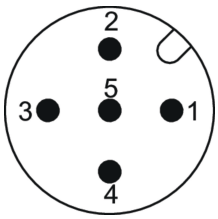
Dimension drawing



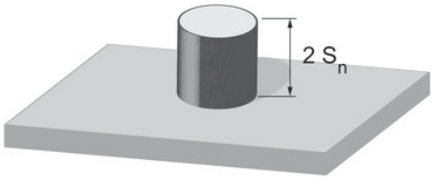
Connection diagram



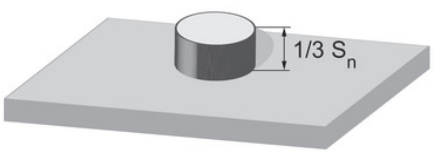
Pin assignment



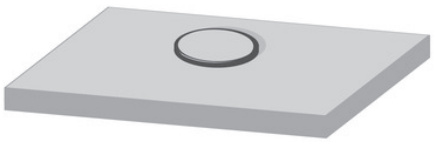
Correction factors for different mounting situation (approx.)



Mounting material	Correction factor
Mild steel	100 %
Stainless steel	100 %
Aluminum	100 %



Mounting material	Correction factor
Mild steel	100 %
Stainless steel	100 %
Aluminum	100 %



Mounting material	Correction factor
Mild steel	115 %
Stainless steel	110 %
Aluminum	105 %

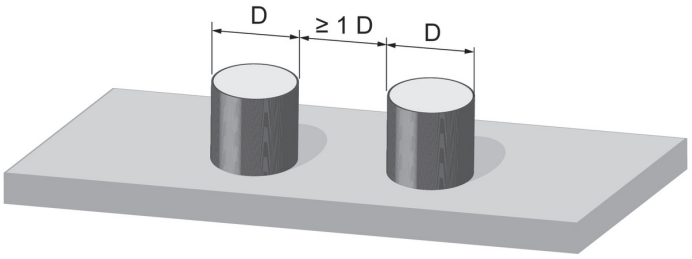
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Mounting instructions



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

Peripherals	
11084377	ZTEST-ALL.DIGITAL
11084376	ZTEST-ALL.ANALOG

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