Baumer
Passion for Sensors

Inductive distance sensors

IWRM 12Z8704/S14C

Inductive distance sensors - linearized

Article number: 10144963

Overview

- 0 … 4 mm
- voltage output / PNP
- external Teach-in
- connector M12
- -10 … 70 °C
- IP 67

Picture similar

Technical data

General data	
Mounting type	Quasi-flush
Special type	2 adjust. switching points Linearized
Measuring distance Sd	0 … 4 mm
Resolution	< 0.005 mm (stat.) < 0.005 mm (dynam.)
Repeat accuracy	0.01 mm
Adjustment	External Teach-in
Linearity error	± 16 µm
Temperature drift	± 5 % (Full Scale)
Output indicator	LED red
Teach-Feedback	LED yellow
Electrical data	
Response time (factory characteristic)	< 2.5 ms
Response time (teach in characteristic)	< 3.1 ms
Voltage supply range +Vs	15 … 30 VDC
Current consumption max. (no load)	20 mA

Electrical data	
Output circuit	Analog 0 ... 10 VDC PNP
Load resistance	> 1000 Ohm
Output current	10 mA (PNP)
Voltage drop Vd	<5 VDC (PNP)
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	60 mm
Connection types	Connector M12
Tightening torque max.	15 Nm (Front: 10 Nm)
Ambient conditions	
Operating temperature	-10 … +70 °C
Protection class	IP 67

Remarks

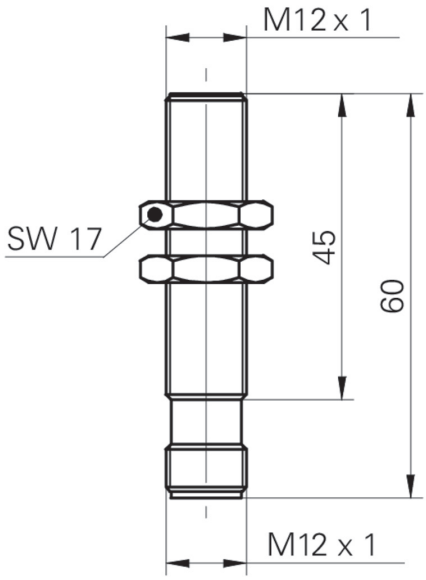
- External Teach-in
- Integrated analog- and switching output
- Linear analog output

IWRM 12Z8704/S14C

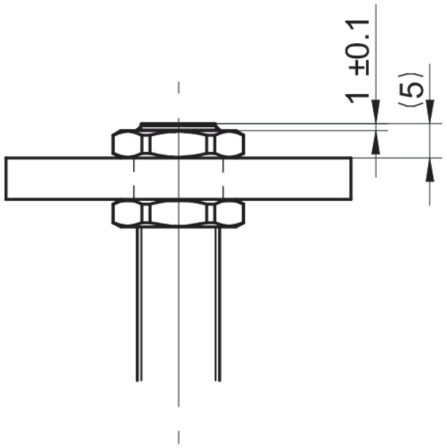
Inductive distance sensors - linearized

Article number: 10144963

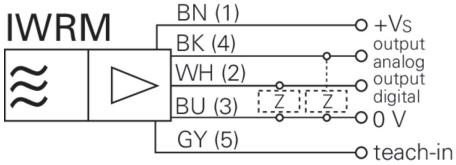
Dimension drawing



Installation drawing



Connection diagram



IWRM 12Z8704/S14C

Inductive distance sensors - linearized

Article number: 10144963

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