Baumer
Passion for Sensors

Inductive distance measuring sensors

IWRM 18Z8704/S14C

Inductive distance measuring sensors - linearized

Article number: 10156471

overview

- 0 … 8 mm
- voltage output / PNP
- external Teach-in
- connector M12
- -10 … 70 °C
- IP 67

Technical data

general data	
mounting type	quasi-flush
special type	2 adjust. switching points linearized
measuring distance Sd	0 … 8 mm
resolution	< 0,01 mm (stat.) < 0,01 mm (dynam.)
repeat accuracy	< 0,015 mm
adjustment	external Teach-in
linearity error	± 32 µm
temperature drift	± 5 % (Full Scale)
output indicator	LED red
Teach-Feedback	LED yellow
electrical data	
response time (factory characteristic)	< 2 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	voltage output / PNP
output signal	0 ... 10 VDC
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	
type	cylindrical threaded
housing material	brass nickel plated
dimension	18 mm
housing length	60 mm
connection types	connector M12
tightening torque max.	40 Nm (Front: 28 Nm)
ambient conditions	
operating temperature	-10 … +70 °C
protection class	IP 67

remarks

- external Teach-in
- integrated analog- and switching output
- linear analog output

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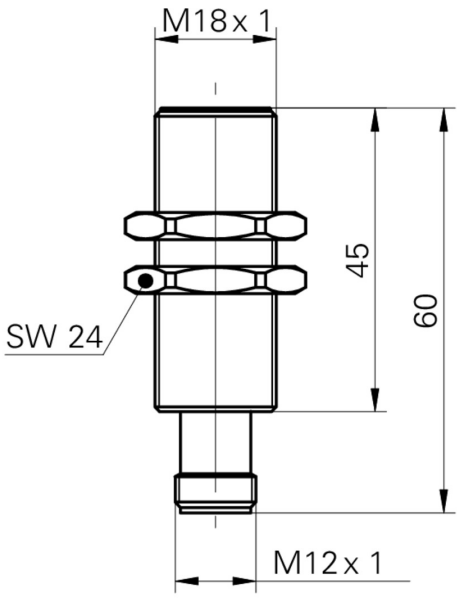
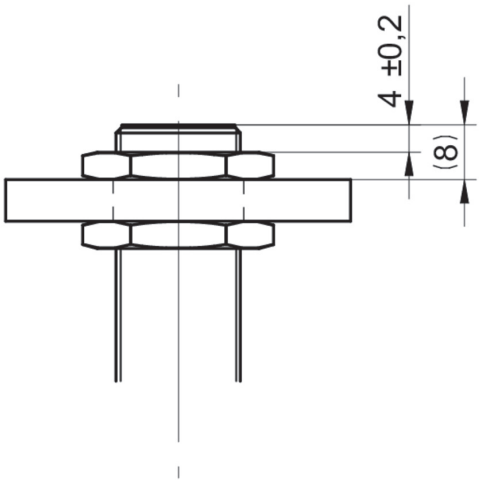
dimension drawing



installation drawing



connection diagram