Inductive distance sensors

IWRM 30Z8704/S14C

Inductive distance sensors - linearized

Article number: 10161182

Overview

- 0 … 16 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 … 16 mm
Resolution	< 0.01 mm (stat.) < 0.01 mm (dynam.)
Repeat accuracy	0.015 mm
Adjustment	External Teach-in
Linearity error	± 160 µm
Temperature drift	± 5 % (Full Scale: S = 0 ... 14 mm) ± 10 % (Full Scale: S = 0 ... 16 mm)
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	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

Design	Cylindrical threaded
Material (sensing face)	PBT
Housing material	Brass nickel plated
Dimension	30 mm
Housing length	62 mm
Connection types	Connector M12
Tightening torque max.	200 Nm (Front: 140 Nm)

Ambient conditions

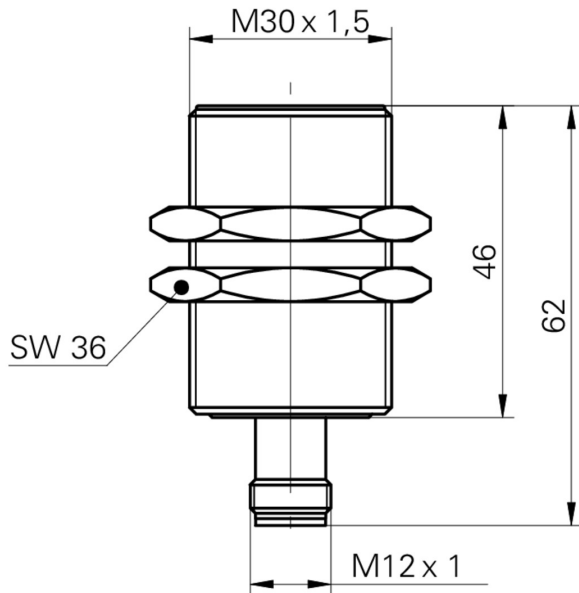|	
Operating temperature	-10 … +70 °C
Protection class	IP 67

Remarks

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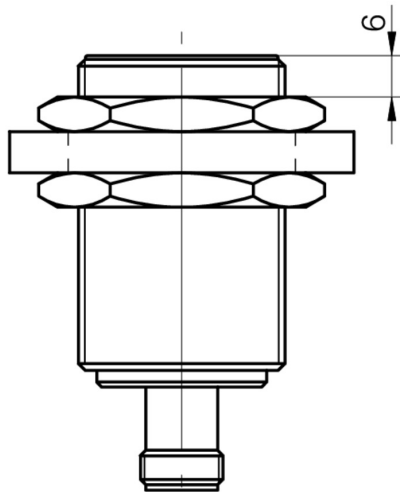- Integrated analog- and switching output
- Linear analog output

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Dimension drawing

M30 x 1,5

46

62

SW 36

M12 x 1

Installation drawing

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Connection diagram

IWRM

BN (1) — +Vs
BK (4) — output analog
WH (2) — output digital
BU (3) — 0 V
GY (5) — teach-in