

IR12.D06L-Q60.UAME.7BF

Inductive distance measuring sensors - linearized

Article number: 11135332

overview

- 0 ... 6 mm
- voltage output / PNP
- external Teach-in
- connector M12
- 25 ... 75 °C (Vs = 12 ... 30 VDC)
- 25 ... 60 °C (Vs = 12 ... 36 VDC)
- IP 67



Technical data

general data

mounting type	quasi-flush
special type	2 adjust. switching points linearized
measuring distance Sd	0 ... 6 mm
sensitivity	1,67 V/mm
resolution	< 0,003 mm (stat.) < 0,005 mm (dynam., S = 0 ... 4 mm) < 0,022 mm (dynam., S = 0 ... 6 mm)
repeat accuracy	< 0,01 mm
adjustment	external Teach-in
teach	1-point analog, window digital, factory re- set
linearity error	± 25 µm (S = 0 ... 4 mm) ± 60 µm (S = 0 ... 6 mm)
temperature drift	± 2 % (Full Scale; S = 0 ... 4 mm) ± 5 % (Full Scale; S = 0 ... 6 mm)
output indicator	LED red
Teach-Feedback	LED yellow

electrical data

response time (factory char- acteristic)	< 1 ms
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remarks

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

electrical data

voltage supply range +Vs	12 ... 36 VDC
current consumption max. (no load)	15 mA
output circuit	voltage output / PNP
output signal	0 ... 10 VDC
load resistance	> 4000 Ohm
output current	< 100 mA (PNP)
short circuit protection	yes
reverse polarity protection	yes

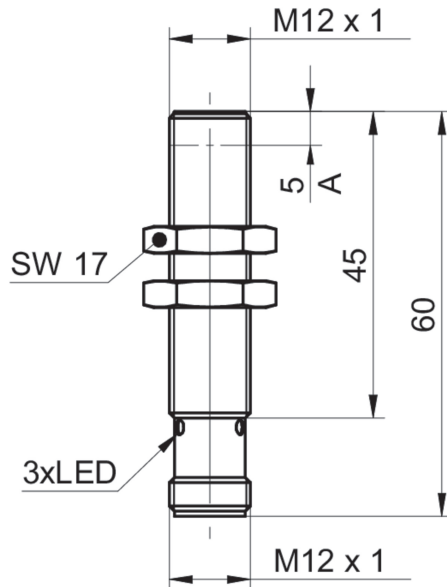
mechanical data

type	cylindrical threaded
housing material	brass nickel plated
dimension	12 mm
housing length	60 mm
connection types	connector M12
tightening torque max.	15 Nm (A: 10 Nm)

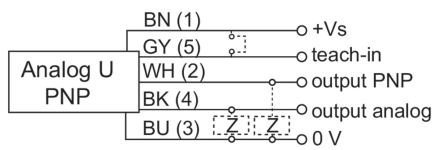
ambient conditions

operating temperature	-25 ... +75 °C (Vs = 12 ... 30 VDC) -25 ... +60 °C (Vs = 12 ... 36 VDC)
protection class	IP 67

dimension drawing



connection diagram



pin assignment

