Baumer
Passion for Sensors

Inductive distance measuring sensors

IR12.D06L-Q60.UA1E.7BF

Inductive distance measuring sensors - linearized

Article number: 11141090

overview

- 0 … 6 mm
- voltage output
- 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	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, 2-point analog, factory reset
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)
Teach-Feedback	LED yellow
electrical data	
response time (factory characteristic)	< 1 ms

electrical data	
voltage supply range +Vs	12 … 36 VDC
current consumption max. (no load)	15 mA
output circuit	voltage output
output signal	0 ... 10 VDC
load resistance	> 4000 Ohm
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

remarks

- external Teach-in
- linear analog output

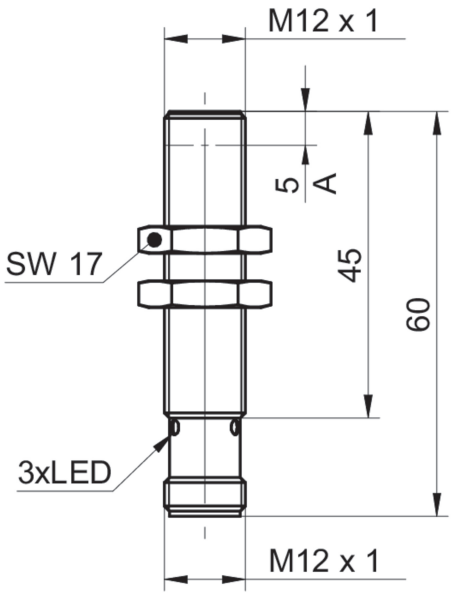
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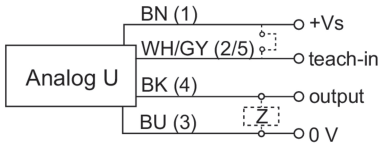
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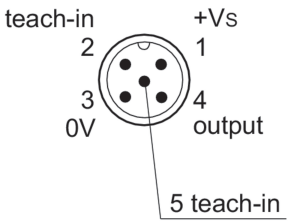
dimension drawing



connection diagram



pin assignment



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