Baumer
Passion for Sensors

Inductive distance measuring sensors

IR18.D08L-Q60.IA1E.7BO

Inductive distance measuring sensors - linearized

Article number: 11164789

overview

- 0 … 8 mm
- current output
- external Teach-in
- connector M12
- -25 … 75 °C
- IP 67



Technical data

general data	
mounting type	quasi-flush
special type	linearized
measuring distance Sd	0 … 8 mm
sensitivity	2,0 mA/mm
resolution	< 0,002 mm (stat.) < 0,006 mm (dynam.)
repeat accuracy	< 0,015 mm
adjustment	external Teach-in
teach	1-point analog, 2-point analog, factory reset
linearity error	± 32 µm
temperature drift	± 4 % (Full Scale)
Teach-Feedback	LED yellow
electrical data	
response time (factory characteristic)	< 1 ms
voltage supply range +Vs	12 … 36 VDC
current consumption max. (no load)	20 mA

electrical data	
output circuit	current output
output signal	4 ... 20 mA
load resistance	< 50 Ohm/V * Vs - 250 Ohm > 500 Ohm (Vs = 30 … 36 VDC)
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
ambient conditions	
operating temperature	-25 … +75 °C
protection class	IP 67

remarks

- external Teach-in
- linear analog output

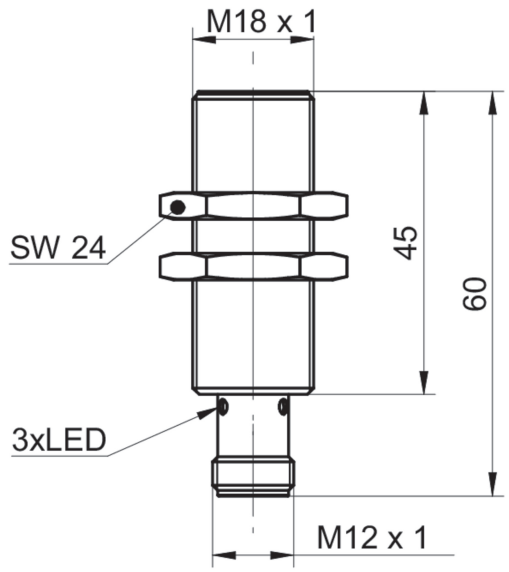
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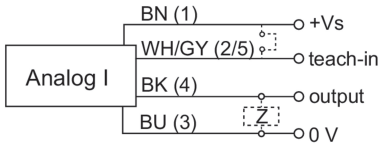
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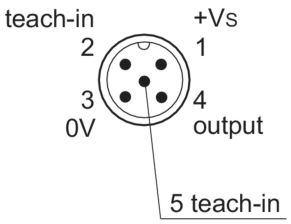
dimension drawing



connection diagram



pin assignment



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