IR18.D08S-Q60.IA1Z.7BO

Inductive distance measuring sensors

Article number: 11163468

overview

- 0 … 8 mm
- current output
- connector M12
- -10 … 70 °C
- IP 67



Technical data

general data	
mounting type	quasi-flush
measuring distance Sd	0 … 8 mm
resolution	< 0,002 mm (stat.) < 0,006 mm (dynam.)
repeat accuracy	< 0,015 mm
linearity error	± 240 µm (S = 2 ... 6 mm) ± 640 µm (S = 0 ... 8 mm)
temperature drift	± 2 % (Full Scale; 0 ... +60 °C) ± 4 % (Full Scale; -10 ... +70 °C)
electrical data	
response time (factory characteristic)	< 2 ms
voltage supply range +Vs	12 … 36 VDC
current consumption max. (no load)	20 mA
output circuit	current output

electrical data	
output signal	4 ... 20 mA
load resistance	< 50 Ohm/V * Vs - 150 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 (Front: 28 Nm)
ambient conditions	
operating temperature	-10 … +70 °C
protection class	IP 67

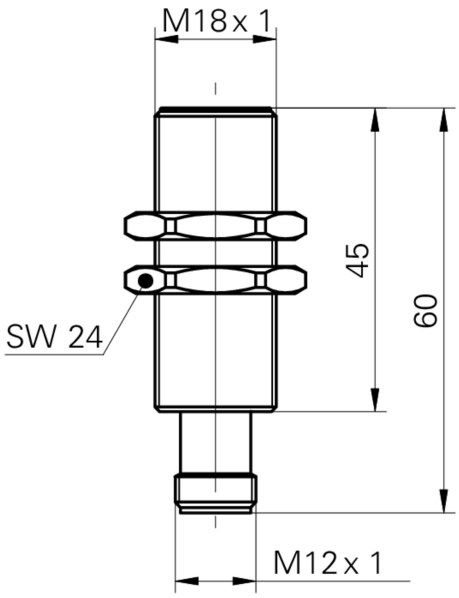
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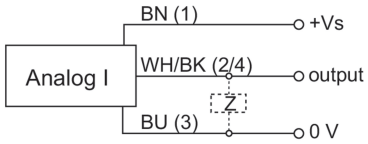
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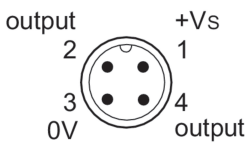
dimension drawing



connection diagram



pin assignment



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