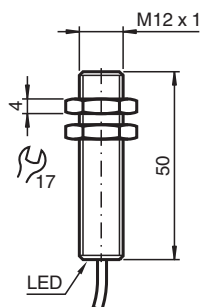


Inductive sensor NBB4-12GS50-EI

- 4 mm flush
- Extended temperature range
-40 ... +85 °C
- Digital current output



Dimensions



Technical Data

General specifications

Output type		Digital current output
Rated operating distance	s_n	4 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 3.24 mm
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 12 mm x 12 mm x 1 mm
Reduction factor r_{Al}		0.3
Reduction factor r_{Cu}		0.2
Reduction factor r_{304}		0.65
Reduction factor r_{Brass}		0.35
Output type		3-wire

Nominal ratings

Operating voltage	U_B	9 ... 16 V DC
Switching frequency	f	0 ... 1400 Hz
Hysteresis	H	2 ... 15 %

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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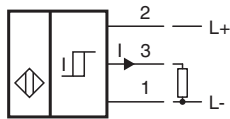
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PEPPERL+FUCHS

Technical Data

Reverse polarity protection		reverse polarity protected
Short-circuit protection		yes
Temperature drift		≤ 10 %
Time delay before availability	t _v	≤ 5 ms
Load resistor		100 ... 250 Ohm
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		1601 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Digital output		
Output value		object detected: 18,5 mA ± 1,5 mA object not detected: 5,5 mA ± 1,5 mA
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, General Purpose, Class 2 Power Source
Ambient conditions		
Ambient temperature		-40 ... 85 °C (-40 ... 185 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		Cable connector PUR , 1.1 m AMP Superseal
Core cross section		3 x 0.34 mm ²
Housing material		Stainless steel
Sensing face		PBT
Degree of protection		IP68 / IP69K
Dimensions		
Length		50 mm
Diameter		12 mm
General information		
Scope of delivery		2 self locking nuts in scope of delivery

Connection



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Characteristic Curve

