

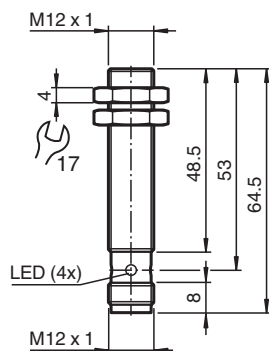


Inductive sensor NXB4-12GM50-E2-V1

- 4 mm flush
- Flexible use with versatile mounting opportunities



Dimensions



Technical Data

General specifications

Switching function	Normally open (NO)	
Output type		PNP
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}		0.4
Reduction factor r_{Cu}		0.35
Reduction factor r_{304}		0.79
Reduction factor r_{Brass}		0.49
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 450 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 1 V

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

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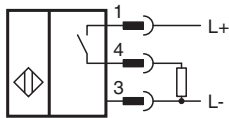
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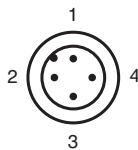
Technical Data

Operating current	I_L	0 ... 100 mA
Off-state current	I_r	max. 20 μ A
No-load supply current	I_0	$\leq$ 10 mA
Time delay before availability	t_v	$\leq$ 10 ms
Switching state indicator		Multihole-LED, yellow
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
CCC approval		CCC approval / marking not required for products rated $\leq$ 36 V
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		Connector plug
Housing material		brass , white bronze coated
Sensing face		PBT , green
Degree of protection		IP67
Connector		
Threading		M12 x 1
Number of pins		3
Mass		29 g
Dimensions		
Length		64.5 mm
Diameter		12 mm
Mounting		with nuts, M12
Tightening torque		0 ... 10 Nm
General information		
Scope of delivery		Supplied with 2 nuts

Connection



Connection Assignment



Connection Assignment

Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

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