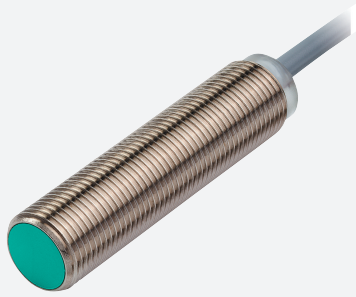


Inductive sensor

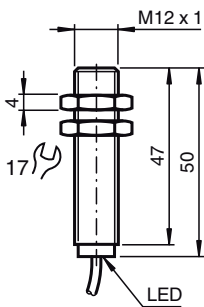
NBB4-12GM50-E3-5M-Y70112987



- 4 mm flush
- Increased operating distance



Dimensions



Technical Data

General specifications

Switching function	Normally closed (NC)	
Output type		PNP
Rated operating distance	s_n	4 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 3.24 mm
Reduction factor r_{Al}		0.45
Reduction factor r_{Cu}		0.35
Reduction factor r_{304}		0.7
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 800 Hz
Hysteresis	H	typ. 5%
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0	≤ 15 mA
Time delay before availability	t_v	≤ 5 ms

Release date: 2020-03-24 Date of issue: 2020-03-30 Filename: 70112987_eng.pdf

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

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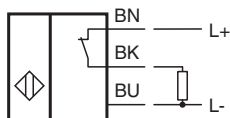
Singapore: +65 6779 9091
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PEPPERL+FUCHS

Technical Data

Switching state indicator	LED, yellow
Functional safety related parameters	
MTTF _d	1315 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %
Compliance with standards and directives	
Standard conformity	
Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
Approvals and certificates	
UL approval	cULus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated ≤36 V
Ambient conditions	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications	
Connection type	cable
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67
Cable	
Cable diameter	4.3 mm + 0.2 mm
Bending radius	> 10 x cable diameter
Material	PUR
Color	black
Number of cores	3
Core cross-section	0.34 mm ²
Length	L 5 m
General information	
Scope of delivery	2 self locking nuts in scope of delivery

Connection Assignment



Accessories

	BF 12	Mounting flange, 12 mm
	EXG-12	Quick mounting bracket with dead stop