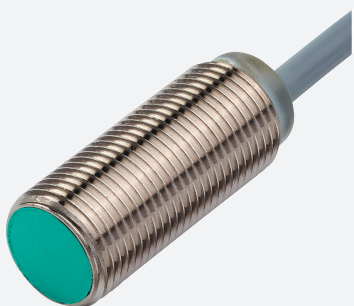




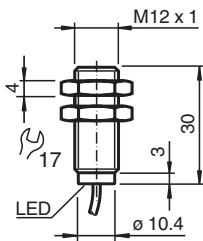
Inductive sensor

NBB4-12GM30-E3

- 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
Nominal ratings		
Operating voltage	U _B	10 ... 30 V
Switching frequency	f	0 ... 500 Hz
Hysteresis	H	typ. 5%
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing

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

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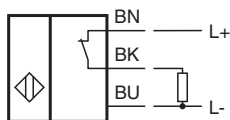
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PEPPERL+FUCHS

Technical Data

Voltage drop	U _d	≤ 3 V
Operating current	I _L	0 ... 150 mA
Off-state current	I _r	0 ... 0.5 mA typ. 0.1 μA at 25 °C
No-load supply current	I ₀	≤ 15 mA
Time delay before availability	t _v	≤ 20 ms
Switching state indicator		Multihole-LED, yellow
Functional safety related parameters		
MTTF _d		1770 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus 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 PVC , 2 m
Core cross-section		0.14 mm²
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
Mass		30 g

Connection Assignment



Accessories

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