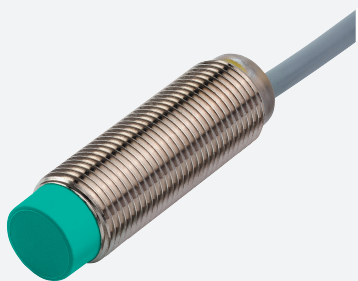


Inductive sensor

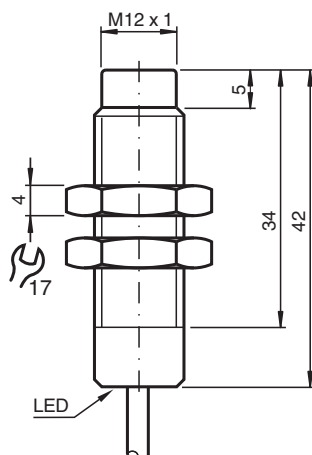
NBN4-12GM40-Z0



- 4 mm non-flush
- 2-wire DC



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	s _n	4 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s _a	0 ... 3.24 mm
Actual operating distance	s _r	3.6 ... 4.4 mm typ.
Reduction factor r _{Al}		0.37
Reduction factor r _{Cu}		0.36
Reduction factor r ₃₀₄		0.74
Output type		2-wire
Nominal ratings		
Operating voltage	U _B	5 ... 60 V
Switching frequency	f	0 ... 700 Hz
Hysteresis	H	1 ... 10 typ. 5 %

Release date: 2020-03-20 Date of issue: 2020-03-30 Filename: 088194_eng.pdf

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

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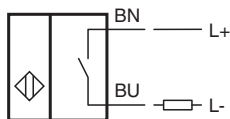
Singapore: +65 6779 9091
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PEPPERL+FUCHS

Technical Data

Reverse polarity protection		reverse polarity tolerant
Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 5 \text{ V}$
Operating current	I_L	2 ... 100 mA
Lowest operating current	I_m	2 mA
Off-state current	I_r	0 ... 0.5 mA typ.
Switching state indicator		all direction LED, yellow
Functional safety related parameters		
MTTF _d		2020 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
CSA approval		cCSAus Listed, General Purpose
CCC approval		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		cable PVC , 2 m
Core cross-section		0.14 mm ²
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
Cable		
Cable diameter		3 mm ± 0.2 mm
Bending radius		> 10 x cable diameter

Connection



Accessories



BF 12

Mounting flange, 12 mm