

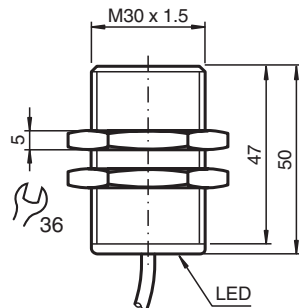
Inductive sensor

NBB15-30GM50-E2-3G-3D

- Increased operating distance
- 15 mm flush
- ATEX-/IECEX-approvals for zone 2/22 (Ex ec/tc)



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	15 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 12.15 mm
Reduction factor r_{Al}		0.3
Reduction factor r_{Cu}		0.3
Reduction factor r_{304}		0.75
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 200 Hz
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
Switching state indicator		all direction LED, yellow

Functional safety related parameters

Release date: 2022-07-15 Date of issue: 2022-07-15 Filename: 70126049_eng.pdf

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

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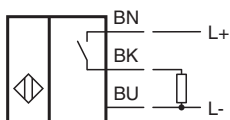
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PEPPERL+FUCHS

Technical Data

MTTF _d	1058 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	
IECEX approval	
Equipment protection level Gc (ec)	IECEX TUR 21.0017X
Equipment protection level Dc (tc)	IECEX TUR 21.0018X
ATEX approval	
Equipment protection level Gc (ec)	TÜV 20 ATEX 8523 X
Equipment protection level Dc (tc)	TÜV 20 ATEX 8524 X
UL approval	cULus Listed, General Purpose
Marine approval	DNVGL TAA0000160
Ambient conditions	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications	
Connection type	cable PVC , 2 m
Core cross section	0.34 mm ²
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67
Cable	
Bending radius	> 10 x cable diameter
General information	
Use in the hazardous area	see instruction manuals

Connection



Accessories

	BF 30	Mounting flange, 30 mm
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