

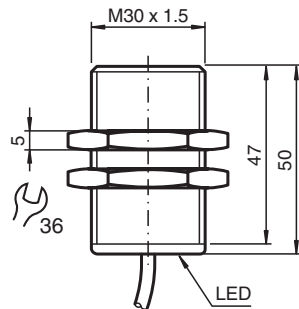
Inductive sensor

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

- Increased operating distance
- 15 mm flush
- ATEX-approval for zone 2 and zone 22



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_{AI}	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	

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

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PEPPERL+FUCHS

Technical Data

Functional safety related parameters

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

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)
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Mechanical specifications

Connection type	cablc 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

Equipment protection level Dc (tc)

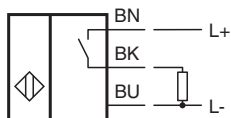
Special conditions

Maximum permissible ambient temperature T _{Umax}	dependant of the load current I _L and the max. operating voltage U _{Bmax} Information can be taken from the following list.
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General information

Use in the hazardous area	see instruction manuals
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Connection



Accessories


BF 30

Mounting flange, 30 mm


EXG-30

Quick mounting bracket with dead stop