



Model Number

NBB2-F76-E1-0,5M

Features

- 2 mm flush
- 3-wire DC

Description

Caution:

The diameter of any countersink on the on-site M3 threaded hole must not be greater than 3.2 mm. Only in this way is the shouldering of the sensor's metal insert bushing guaranteed.

Technical Data

General specifications

Switching function	Normally closed (NC)
Output type	NPN
Rated operating distance	s_n 2 mm
Installation	flush
Output polarity	DC
Assured operating distance	s_a 0 ... 1.62 mm
Reduction factor r_{Al}	0.25
Reduction factor r_{Cu}	0.2
Reduction factor r_{304}	0.63
Reduction factor r_{Brass}	0.31
Output type	3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 1500 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 ... 100 mA
Off-state current	I_r	0 ... 0.5 mA typ. 10 μ A at 25 °C
No-load supply current	I_0	≤ 15 mA
Switching state indicator		LED yellow

Functional safety related parameters

MTTF _d	828 a
Mission Time (T_M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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Mechanical specifications

Connection type	cable PVC , 0.5 m
Core cross-section	3 x 0.09 mm ²
Housing material	PC
Degree of protection	IP67
Mass	5 g
Tightening torque, fastening screws	0.7 Nm

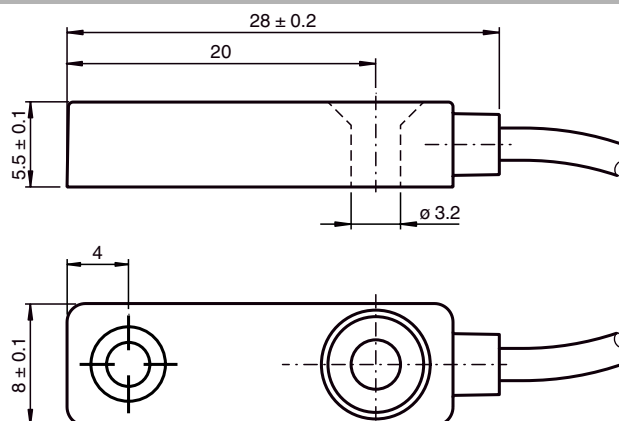
Compliance with standards and directives

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

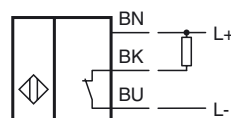
Approvals and certificates

CCC approval	CCC approval / marking not required for products rated ≤ 36 V
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Dimensions



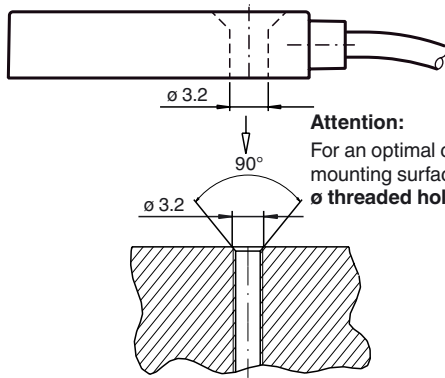
Electrical Connection





Additional Information

Important Mounting Note



Attention:

For an optimal connection of the sensor via its sleeve with the mounting surface, the following applies:

Ø threaded hole on mounting surface (countersink) < Ø sleeve