

**Model Number****NBB2-F76-E2-0,5M****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 open (NO)
Output type	PNP
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	1056 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

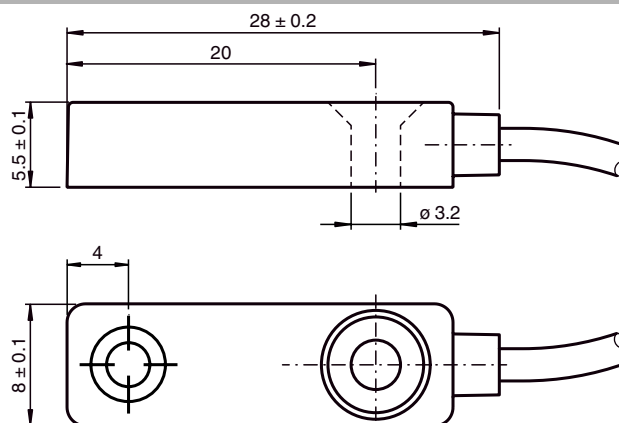
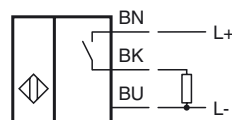
Connection type	cable PVC , 0.5 m
Core cross-section	3 x 0.09 mm ²
Housing material	PC
Degree of protection	IP67
Cable	
Cable diameter	2.3 mm $\pm$ 0.2 mm
Bending radius	> 10 x cable diameter
Mass	5 g
Tightening torque, fastening screws	0.7 Nm

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

