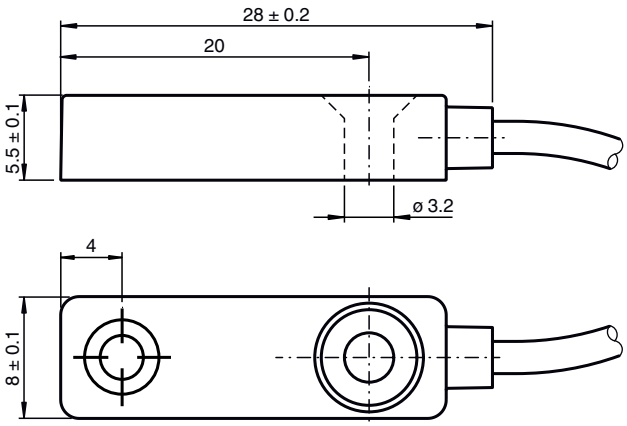
Inductive sensor

NBB2-F76-E0-0,5M

- 2 mm flush
- 3-wire DC

Dimensions



Technical Data

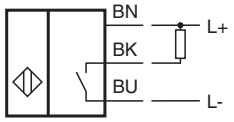
General specifications		
Switching function		Normally open (NO)
Output type		NPN
Rated operating distance	s_n	2 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.62 mm
Reduction factor r_{Al}		0.25
Reduction factor r_{Cu}		0.2
Reduction factor r_{304}		0.63
Reduction factor 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

Release date: 2020-03-23 Date of issue: 2020-03-30 Filename: 214955_eng.pdf

Technical Data

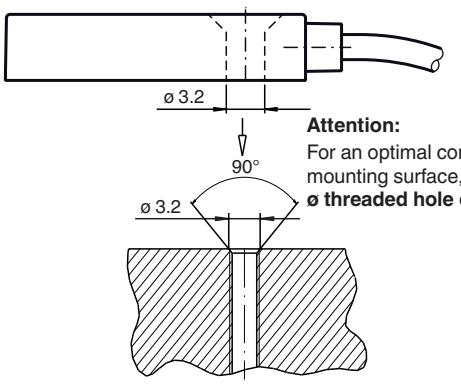
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	0 ... 0.5 mA typ. 10 µA at 25 °C
No-load supply current	I_0	≤ 15 mA
Switching state indicator		LED yellow
Functional safety related parameters		
$MTTF_d$		828 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance 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
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		cable PVC , 0.5 m
Core cross-section		3 x 0.09 mm²
Housing material		PC
Degree of protection		IP67
Mass		5 g
Tightening torque, fastening screws		0.7 Nm

Connection



Assembly

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

Release date: 2020-03-23 Date of issue: 2020-03-30 Filename: 214955_eng.pdf