

Inductive sensor

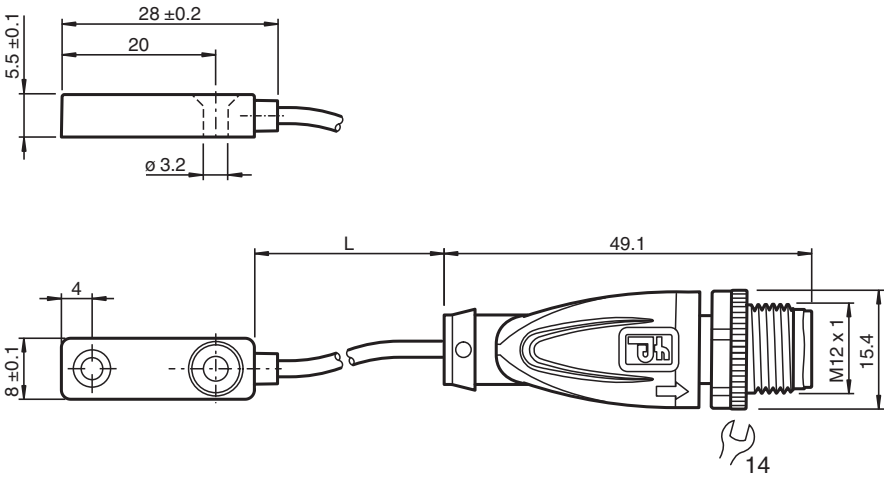
NBB2-F76-E2-0,5M-Y70182080

- 2 mm flush
- 3-wire DC

Mounting

Attention
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.

Dimensions



Technical Data

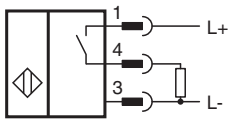
General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	2 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.62 mm
Reduction factor r_{Al}		0.25
Reduction factor r_{Cu}		0.2
Reduction factor r_{304}		0.63
Reduction factor r_{Brass}		0.31
Output type		3-wire
Nominal ratings		

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Technical Data

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 µA at 25 °C
No-load supply current	I_0	≤ 15 mA
Switching state indicator		LED yellow
Safety-relevant product characteristics		
$MTTF_d$		1056 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
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		fixed cable with plug
Housing material		PC
Degree of protection		IP67
Connector		
Threading		M12 x 1
Number of pins		3
Cable		
Cable diameter		2.3 mm ± 0.2 mm
Bending radius		> 10 x cable diameter
Material		PVC
Color		black
Number of cores		3
Core cross section		0.09 mm^2
Length	L	0.5 m
Mass		5 g
Tightening torque, fastening screws		≤ 0.7 Nm
Dimensions		
Height		5.5 mm
Width		8 mm
Length		25 mm

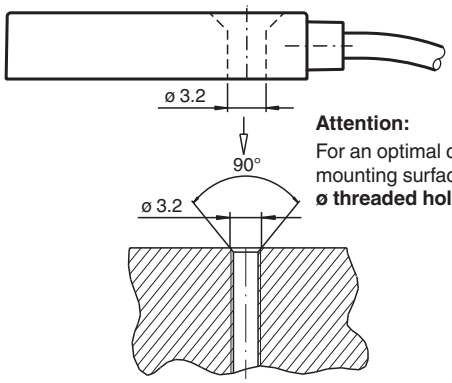
Connection Assignment



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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

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