

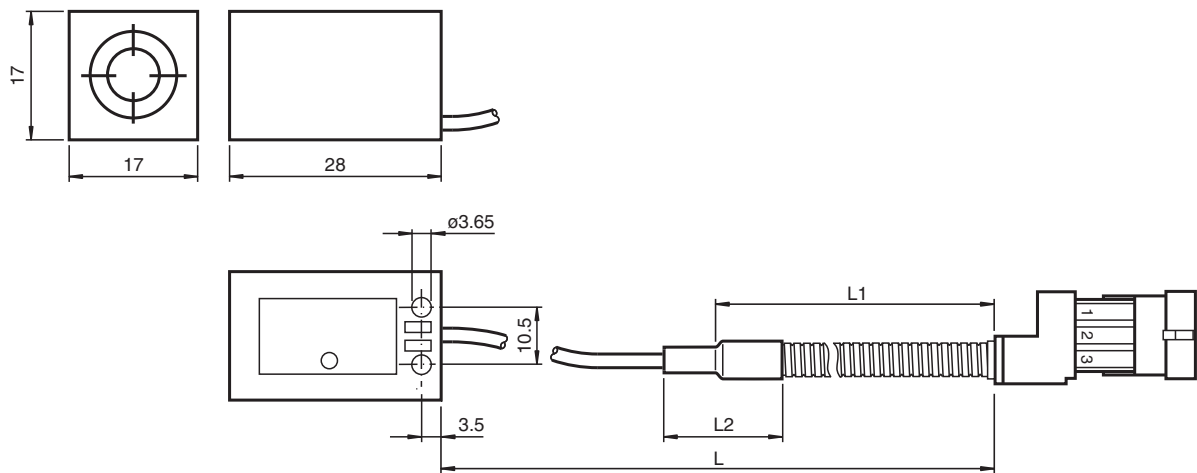
# Inductive sensor

## NBN5-F7A-E0-Y70148332

- 5 mm non-flush
- 3-wire DC



### Dimensions



### Technical Data

#### General specifications

Switching function		Normally open (NO)
Output type		NPN
Rated operating distance	$s_n$	5 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 4.05 mm
Reduction factor $r_{Al}$		0.3
Reduction factor $r_{Cu}$		0.2
Reduction factor $r_{304}$		0.7
Output type		3-wire

#### Nominal ratings

Operating voltage	$U_B$	10 ... 30 V DC
Switching frequency	$f$	0 ... 500 Hz
Hysteresis	$H$	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 3$ V
Operating current	$I_L$	0 ... 100 mA
Off-state current	$I_r$	0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C
No-load supply current	$I_0$	$\leq 20$ mA
Switching state indicator		LED, yellow

Release date: 2022-06-24 Date of issue: 2022-06-24 Filename: 70148332\_eng.pdf

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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

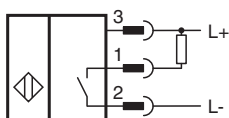
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

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## Technical Data

Functional safety related parameters	
MTTF <sub>d</sub>	2980 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %
Compliance with standards and directives	
Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007
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	PBT
Sensing face	PBT
Degree of protection	IP67
Connector	
Number of pins	3
Connection assembly	AMP housing 282105-1 AMP crimp 282404-1 AMP sealing 281934-2 Schlemmer corrugated tube 1926307 ABB IO8-AS3 HX 3 way adapter for corrugated tube
Cable	
Cable diameter	5.2 mm ± 0.2 mm
Material	PVC
Core cross section	0.5 mm <sup>2</sup>
Length	L 200 mm ± 5 mm further length specifications: L1 = 170 mm ± 5 mm L2 = approx. 40 mm

## Connection



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