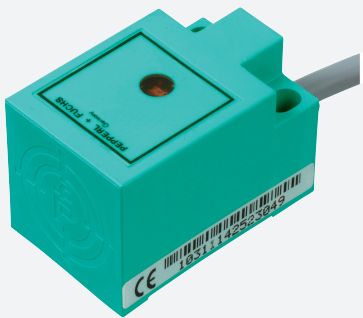




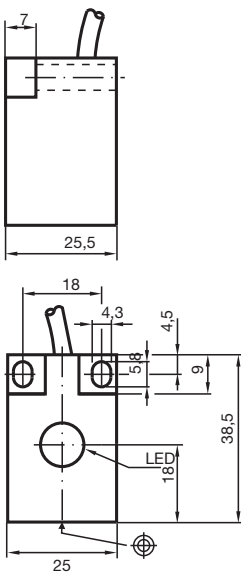
Inductive sensor

NBN10-F10-E0

- 10 mm non-flush
- 3-wire DC



Dimensions



Technical Data

General specifications

Switching function	Normally open (NO)	
Output type	NPN	
Rated operating distance	s_n	10 mm
Installation	non-flush	
Output polarity	DC	
Assured operating distance	s_a	0 ... 8.1 mm
Reduction factor r_{Al}	0.3	
Reduction factor r_{Cu}	0.2	
Reduction factor r_{304}	0.6	
Output type	3-wire	

Nominal ratings

Operating voltage	U_B	10 ... 30 V DC
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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PEPPERL+FUCHS

Technical Data

Switching frequency	f	0 ... 500 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. 0.1 µA at 25 °C
No-load supply current	I ₀	≤ 15 mA
Switching state indicator		LED, yellow

Functional safety related parameters

MTTF _d		3178 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

UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V

Ambient conditions

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

Connection type		cabl PVC , 2 m
Core cross-section		0.34 mm ²
Housing material		PBT
Sensing face		PBT
Degree of protection		IP67
Cable		
Cable diameter		4.6 mm ± 0.2 mm
Bending radius		> 10 x cable diameter

Connection

