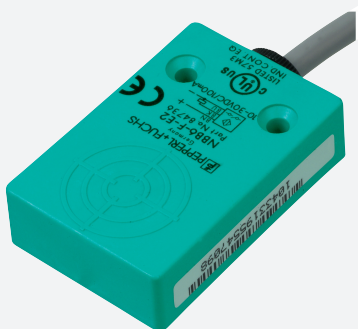


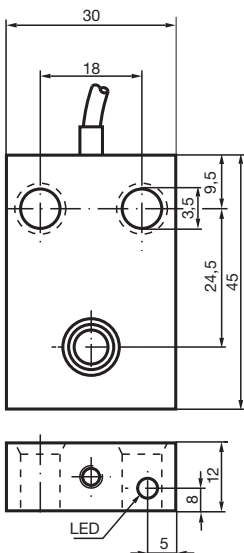


Inductive sensor

NJ10-F-A2



Dimensions



Technical Data

General specifications

Switching function		complementary
Output type		PNP
Rated operating distance	S_n	10 mm
Installation		flush
Output polarity		DC
Assured operating distance	S_a	0 ... 8.1 mm
Reduction factor r_{Al}		0.22
Reduction factor r_{Cu}		0.2
Reduction factor r_{304}		0.7
Output type		4-wire

Nominal ratings

Operating voltage	U_B	10 ... 60 V
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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 ... 200 Hz
Hysteresis	H	0 ... 0.3 typ. 0.1 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U _d	≤ 3 V
Operating current	I _L	0 ... 200 mA
No-load supply current	I ₀	≤ 20 mA
Time delay before availability	t _v	≤ 15 ms
Switching state indicator		LED, yellow

Functional safety related parameters

MTTF _d		690 a
Mission Time (T _M)		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

UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		Certified by China Compulsory Certification (CCC)

Ambient conditions

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

Connection type		cable PUR , 2 m
Core cross-section		0.34 mm ²
Housing material		PBT
Sensing face		PBT
Degree of protection		IP67

Connection

