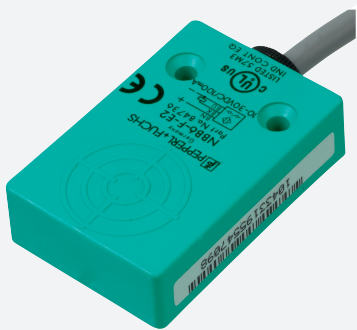




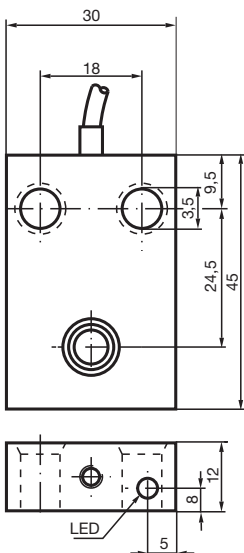
Inductive sensor

NJ6-F-E2

- Comfort series
- 6 mm flush
- 3-wire DC



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	S_n	6 mm
Installation		flush
Output polarity		DC
Assured operating distance	S_a	0 ... 4.8 mm
Actual operating distance	S_r	5.4 ... 6.6 mm typ.
Reduction factor r_{Al}		0.22
Reduction factor r_{Cu}		0.2
Reduction factor r_{304}		0.7
Output type		3-wire

Nominal ratings

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

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PEPPERL+FUCHS

Technical Data

Operating voltage	U_B	10 ... 60 V DC
Switching frequency	f	0 ... 500 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
Off-state current	I_r	≤ 0.5 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	990 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

