



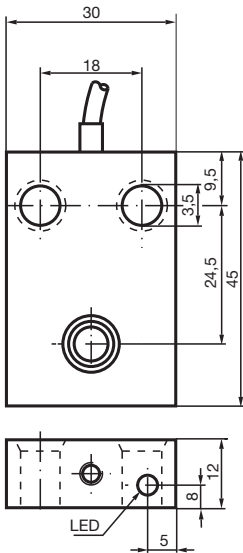
# Inductive sensor

## NJ10-F-E2-10M-Y89586

- Comfort series
- 10 mm non-flush
- 3-wire DC



### Dimensions



### Technical Data

#### General specifications

Rated operating distance	$s_n$	10 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 8.1 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

Operating voltage	$U_B$	10 ... 60 V DC
Switching frequency	$f$	0 ... 250 Hz
Hysteresis	$H$	0 ... 0.3 typ. 0.1 %

Release date: 2022-06-30 Date of issue: 2022-06-30 Filename: 089586\_eng.pdf

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

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## Technical Data

Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 3 \text{ V}$
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	$\leq 0.5 \text{ mA}$
No-load supply current	$I_0$	$\leq 20 \text{ mA}$
Time delay before availability	$t_v$	$\leq 15 \text{ ms}$
Switching state indicator		LED, yellow
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>		990 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007
<b>Approvals and certificates</b>		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		Certified by China Compulsory Certification (CCC)
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>		
Connection type		cable PUR , 10 m
Core cross section		0.34 mm <sup>2</sup>
Housing material		PBT
Sensing face		PBT
Degree of protection		IP67

## Connection

