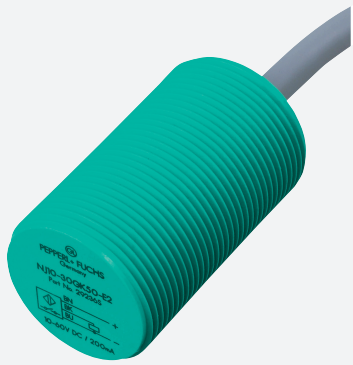


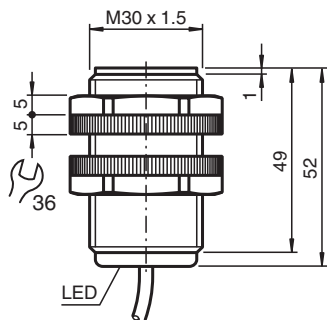


Inductive sensor NJ10-30GK50-A2

■ 10 mm flush



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
Actual operating distance	s_r	9 ... 11 mm typ. 10 mm
Reduction factor r_{Al}		0.4
Reduction factor r_{Cu}		0.38
Reduction factor r_{304}		0.71
Reduction factor r_{Brass}		0.45
Output type		4-wire

Nominal ratings

Operating voltage	U_B	10 ... 60 V
Switching frequency	f	0 ... 500 Hz
Hysteresis	H	typ. 5 %

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

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PEPPERL+FUCHS

Technical Data

Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 2.8 \text{ V}$
Voltage drop at I_L		
Voltage drop $I_L = 10 \text{ mA}$, switching element on	U_d	$0.9 \dots 2.4 \text{ V typ. } 1.7 \text{ V}$
Voltage drop $I_L = 20 \text{ mA}$, switching element on	U_d	$0.9 \dots 2.4 \text{ V typ. } 1.7 \text{ V}$
Voltage drop $I_L = 50 \text{ mA}$, switching element on	U_d	$0.9 \dots 2.5 \text{ V typ. } 1.7 \text{ V}$
Voltage drop $I_L = 100 \text{ mA}$, switching element on	U_d	$1 \dots 2.6 \text{ V typ. } 1.8 \text{ V}$
Voltage drop $I_L = 200 \text{ mA}$, switching element on	U_d	$1.2 \dots 2.8 \text{ V typ. } 2 \text{ V}$
Operating current	I_L	$0 \dots 400 \text{ mA}$
Off-state current	I_r	$0 \dots 0.5 \text{ mA typ. } 0.01 \text{ mA}$
No-load supply current	I_0	$\leq 9 \text{ mA}$
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		1130 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CCC approval		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		$-25 \dots 70 \text{ }^\circ\text{C}$ ($-13 \dots 158 \text{ }^\circ\text{F}$)
Storage temperature		$-25 \dots 85 \text{ }^\circ\text{C}$ ($-13 \dots 185 \text{ }^\circ\text{F}$)
Mechanical specifications		
Connection type		cable PVC, 2 m
Core cross section		0.75 mm^2
Housing material		PBT
Sensing face		PBT
Degree of protection		IP68
Dimensions		
Length		50 mm
Diameter		30 mm

Connection

