

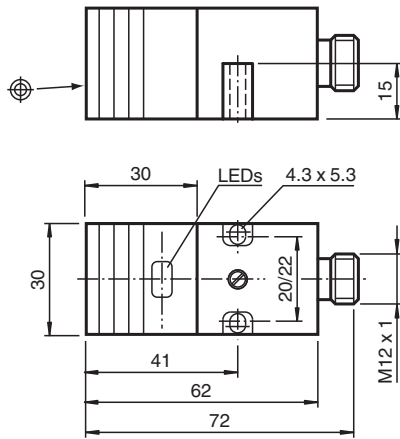


Inductive sensor NJ15-M1-E2-V1

- 15 mm non-flush
- 3-wire DC



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	15 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 12.15 mm
Actual operating distance	s_r	13.5 ... 16.5 mm typ. 15 mm
Reduction factor r_{AI}		0.39
Reduction factor r_{Cu}		0.36
Reduction factor r_{304}		0.73
Output type		3-wire

Nominal ratings

Operating voltage	U_B	10 ... 60 V DC
Switching frequency	f	0 ... 200 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		yes

Release date: 2024-05-28 Date of issue: 2024-06-06 Filename: 222495_eng.pdf

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

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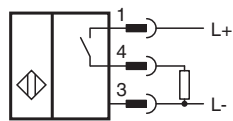
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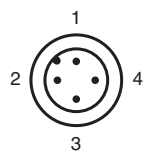
Technical Data

Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 2.5\text{ V}$
Voltage drop at I_L		
Voltage drop $I_L = 200\text{ mA}$, switching element on	U_d	$1 \dots 2.5\text{ V typ. } 2.2\text{ V}$
Rated insulation voltage	U_{BIS}	500 V
Operating current	I_L	$0 \dots 200\text{ mA}$
No-load supply current	I_0	$\leq 14\text{ mA}$
Time delay before availability	t_v	$\leq 50\text{ ms}$
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		932 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		
CCC approval		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		$-25 \dots 70\text{ }^\circ\text{C}$ ($-13 \dots 158\text{ }^\circ\text{F}$)
Mechanical specifications		
Connection type		Connector plug M12 x 1 , 4-pin
Housing material		PBT/metal RAL 7011
Sensing face		PBT
Degree of protection		IP67
Dimensions		
Height		30 mm
Width		30 mm
Length		62 mm

Connection



Connection Assignment



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Connection Assignment

Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

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