

Inductive sensor

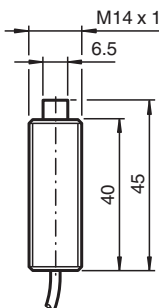
NJ1,5-6,5-E-G



■ 1.5 mm flush



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		NPN
Rated operating distance	s_n	1.5 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 1.215 mm
Actual operating distance	s_r	1.35 ... 1.65 mm typ. 1.5 mm
Reduction factor r_{AI}		0.2
Reduction factor r_{Cu}		0.1
Reduction factor r_{304}		0.5
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	10 ... 60 V
Switching frequency	f	0 ... 2500 Hz
Hysteresis	H	1 ... 15 typ. 5 %

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	$\leq 2.5 \text{ V}$
Voltage drop at I_L		
Voltage drop $I_L = 10 \text{ mA}$, switching element on	U_d	1 ... 2.2 V typ. 1.6 V
Voltage drop $I_L = 20 \text{ mA}$, switching element on	U_d	0.9 ... 2.4 V typ. 1.7 V
Voltage drop $I_L = 50 \text{ mA}$, switching element on	U_d	1.2 ... 2.4 V typ. 1.8 V
Voltage drop $I_L = 100 \text{ mA}$, switching element on	U_d	1.4 ... 2.6 V typ. 2 V
Operating current	I_L	0 ... 100 mA
Lowest operating current	I_m	0 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.01 mA
Off-state current $T_U = 40^\circ\text{C}$, switching element off		$\leq 100 \mu\text{A}$
No-load supply current	I_0	$\leq 15 \text{ mA}$
Time delay before availability	t_v	$\leq 20 \text{ ms}$

Compliance with standards and directives

Standard conformity		
Standards		EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

Approvals and certificates

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

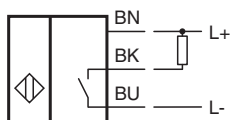
Ambient conditions

Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

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

Connection



Accessories

	BF 6,5	Mounting flange, 6.5 mm
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