

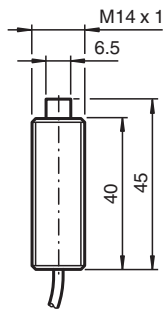
Inductive sensor

NJ1,5-6,5-E2-G-5M

■ 1.5 mm flush



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		PNP
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}		0.24
Reduction factor r_{Cu}		0.21
Reduction factor r_{304}		0.67
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	10 ... 60 V
Switching frequency	f	0 ... 500 Hz
Hysteresis	H	1 ... 15 typ. 5 %
Reverse polarity protection		reverse polarity protected

Release date: 2022-05-18 Date of issue: 2022-05-18 Filename: 011617_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

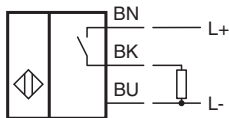
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

pf PEPPERL+FUCHS

Technical Data

Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 3 \text{ V}$
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 ... 0.1 mA typ. 0.01 mA
Off-state current $T_U = 40 \text{ }^\circ\text{C}$, switching element off		$\leq 100 \text{ }\mu\text{A}$
No-load supply current	I_0	$\leq 6 \text{ mA}$
Time delay before availability	t_v	$\leq 20 \text{ ms}$
Switching state indicator		-
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
CCC approval		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		-25 ... 70 $^\circ\text{C}$ (-13 ... 158 $^\circ\text{F}$)
Storage temperature		-40 ... 85 $^\circ\text{C}$ (-40 ... 185 $^\circ\text{F}$)
Mechanical specifications		
Connection type		cable PVC , 5 m
Core cross section		0.34 mm ²
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67

Connection



Release date: 2022-05-18 Date of issue: 2022-05-18 Filename: 011617_eng.pdf