

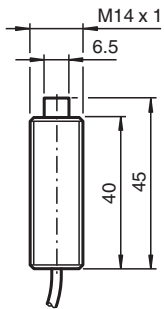
Inductive sensor

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
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Voltage drop at I_L		
Voltage drop $I_L = 10$ mA, switching element on	U_d	1 ... 2.2 V typ. 1.6 V

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Technical Data

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 $T_U = 40 \text{ °C}$, switching element off		$\leq 100 \mu\text{A}$
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 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 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		cable
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67
Cable		
Wire end ferrules		yes
Cable diameter		4.6 mm \pm 0.2 mm
Bending radius		> 10 x cable diameter
Material		PVC
Color		grey
Number of cores		3
Core cross section		0.34 mm ²
Length	L	5 m
Mass		210 g
Dimensions		
Length		45 mm
Diameter		14 mm

Connection Assignment

