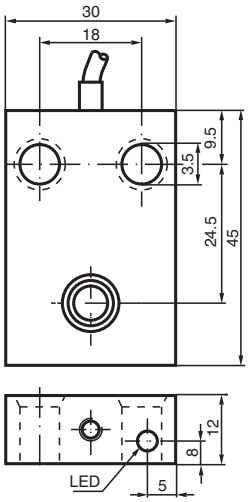


Inductive sensor

NJ6-F-E-5M

- 6 mm flush
- 3-wire DC
- Polarity reversal protected
- 5 meter connection cable

Dimensions



Technical Data

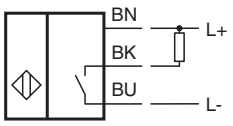
General specifications		
Rated operating distance	s_n	6 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 4.8 mm
Actual operating distance	s_r	5.4 ... 6.6 mm typ.
Reduction factor r_{Al}		0.22
Reduction factor r_{Cu}		0.2
Reduction factor r_{304}		0.7
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	10 ... 60 V DC
Switching frequency	f	0 ... 500 Hz
Hysteresis	H	0 ... 0.3 mm typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V

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Technical Data

Operating current	I_L	0 ... 200 mA
Off-state current	I_r	≤ 0.5 mA
No-load supply current	I_0	≤ 20 mA
Time delay before availability	t_v	≤ 15 ms
Switching state indicator		LED, yellow
Functional safety related parameters		
$MTTF_d$		990 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 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		cable
Core cross section		0.34 mm²
Housing material		PBT
Sensing face		PBT
Degree of protection		IP67
Cable		
Wire end ferrules		yes
Cable diameter		4.8 mm ± 0.2 mm
Bending radius		> 10 x cable diameter
Material		PUR
Color		black
Number of cores		3
Core cross section		0.34 mm²
Length	L	5 m
Mass		178 g
Dimensions		
Height		30 mm
Width		45 mm
Length		12 mm

Connection



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