

Inductive sensor

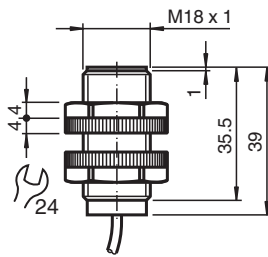
NJ8-18GK-N-10M



- Comfort series
- 8 mm non-flush
- Usable up to SIL 2 acc. to IEC 61508



Dimensions



Technical Data

General specifications			
Switching function			Normally closed (NC)
Output type			NAMUR
Rated operating distance	s_n		8 mm
Installation			non-flush
Assured operating distance	s_a		0 ... 6.48 mm
Reduction factor r_{AI}			0.4
Reduction factor r_{Cu}			0.3
Reduction factor r_{304}			0.85
Output type			2-wire
Nominal ratings			
Nominal voltage	U_o		8.2 V (R_i approx. 1 k Ω)
Switching frequency	f		0 ... 200 Hz
Hysteresis	H		1 ... 7 typ. 4 %
Current consumption			
Measuring plate not detected			min. 3 mA
Measuring plate detected			\leq 1 mA

Release date: 2023-01-27 Date of issue: 2023-01-27 Filename: 70133273_eng.pdf

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

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 PEPPERL+FUCHS

Technical Data

Functional safety related parameters

Safety Integrity Level (SIL)	SIL 2
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Compliance with standards and directives

Standard conformity	
NAMUR	EN 60947-5-6:2000 IEC 60947-5-6:1999
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

IECEX approval	
Equipment protection level Gb	IECEX PTB 11.0037X
Equipment protection level Da	IECEX PTB 11.0037X
Equipment protection level Mb	IECEX PTB 11.0037X
ATEX approval	
Equipment protection level Gb	PTB 00 ATEX 2048 X
Equipment protection level Da	PTB 00 ATEX 2048 X
UL approval	cULus Listed, General Purpose
CCC approval	
Hazardous Location	2020322315002255
NEPSI approval	
NEPSI certificate	GYJ16.1393X
ANZEx	18.3018X

Ambient conditions

Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)
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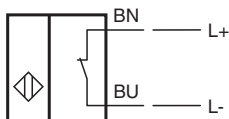
Mechanical specifications

Connection type	cable
Housing material	PBT/PPS
Sensing face	PBT
Degree of protection	IP66 / IP68
Cable	
Cable diameter	6 mm ± 0.2 mm
Bending radius	> 10 x cable diameter
Material	PVC
Core cross section	0.75 mm ²
Length	L 10 m


General information

Use in the hazardous area	see instruction manuals
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Connection



Accessories

	<p>BF 18</p>	<p>Mounting flange, 18 mm</p>
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