

# Inductive sensor

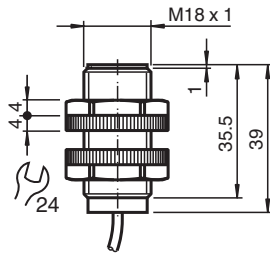
## NJ8-18GK-N



- 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 $r_{Al}$		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 $\Omega$ )
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

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

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## Technical Data

### 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
EAC conformity		TR CU 012/2011
FM approval		
Control drawing		116-0165
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		
Hazardous Location		2020322315002255
NEPSI approval		
NEPSI certificate		GYJ16.1393X
Marine approval		DNVGL TAA00001A5

### Ambient conditions

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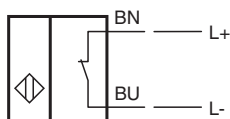
### Mechanical specifications

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 <sup>2</sup>
Length	L	2 m

### General information

Use in the hazardous area		see instruction manuals
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## Connection



**Accessories**

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