

# Inductive sensor

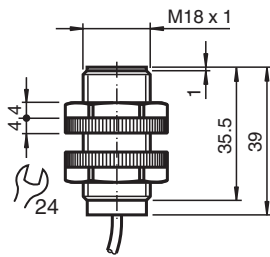
## NJ8-18GK-N-20M



- 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 $\Omega$ )
Switching frequency	$f$		0 ... 200 Hz
Hysteresis	$H$		typ. %
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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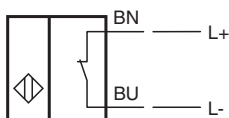
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 PEPPERL+FUCHS


## Technical Data

<b>Functional safety related parameters</b>		
Safety Integrity Level (SIL)		SIL 2
<b>Compliance with standards and directives</b>		
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
<b>Approvals and certificates</b>		
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
KCC approval		
Hazardous Location		19-AV4BO-0227
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 100 °C (-13 ... 212 °F)
<b>Mechanical specifications</b>		
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	20 m
<b>General information</b>		
Use in the hazardous area		see instruction manuals

## Connection



**Accessories**

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