

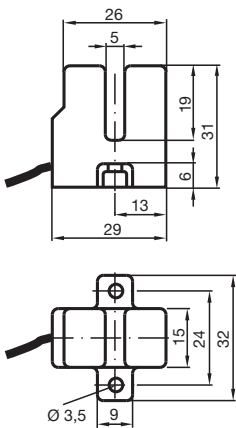
# Inductive slot sensor

## SJ5-K-N

■ 5 mm slot width



### Dimensions



### Technical Data

#### General specifications

Switching function	Normally closed (NC)
Output type	NAMUR
Slot width	5 mm
Depth of immersion (lateral)	8 ... 10 mm , typ. 9 mm
Output type	2-wire

#### Nominal ratings

Nominal voltage	$U_o$	8.2 V ( $R_i$ approx. 1 k $\Omega$ )
Operating voltage	$U_B$	5 ... 25 V
Switching frequency	f	0 ... 2000 Hz
Hysteresis	H	0.05 ... 0.3 mm
Current consumption		
Measuring plate not detected		$\geq 3$ mA at nominal voltage
Measuring plate detected		$\leq 1$ mA at nominal voltage

#### Functional safety related parameters

MTTF <sub>d</sub>	4560 a
Mission Time ( $T_M$ )	20 a
Diagnostic Coverage (DC)	0 %

#### Compliance with standards and directives

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

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## Technical Data

<b>Standard conformity</b>	
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>	
<b>IECEX approval</b>	
Equipment protection level Ga	IECEX PTB 11.0091X
Equipment protection level Gb	IECEX PTB 11.0091X
Equipment protection level Da	IECEX PTB 11.0091X
Equipment protection level Mb	IECEX PTB 11.0091X
<b>ATEX approval</b>	
Equipment protection level Ga	PTB 99 ATEX 2219 X
Equipment protection level Gb	PTB 99 ATEX 2219 X
Equipment protection level Da	PTB 99 ATEX 2219 X
<b>FM approval</b>	
Control drawing	116-0165
<b>UL approval</b>	
Ordinary Location	cULus Listed, General Purpose E87056
Hazardous Location	E501628
Control drawing	116-0453
CSA approval	cCSAus Listed, General Purpose
<b>CCC approval</b>	
Hazardous Location	2020322315002306
<b>NEPSI approval</b>	
NEPSI certificate	GYJ16.1391X
Marine approval	DNVGL TAA00001A5
<b>Ambient conditions</b>	
Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)
<b>Mechanical specifications</b>	
Connection type	cablc PVC , 2 m
Core cross-section	0.75 mm <sup>2</sup>
Housing material	PBT
Degree of protection	IP67
<b>Cable</b>	
Bending radius	> 10 x cable diameter
<b>General information</b>	
Use in the hazardous area	see instruction manuals

## Connection

