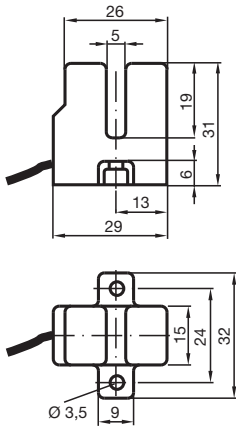


# Inductive slot sensor SJ5-K-N-6M

■ Comfort series



## Dimensions



## Technical Data

### General specifications

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

### Nominal ratings

Nominal voltage	$U_o$	8.2 V ( $R_i$ approx. 1 k $\Omega$ )
Switching frequency	$f$	0 ... 2000 Hz
Current consumption		
Measuring plate not detected		min. 3 mA
Measuring plate detected		$\leq$ 1 mA

### 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

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

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PEPPERL+FUCHS

## Technical Data

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>		
UL approval		cULus Listed, General Purpose
Ordinary Location		E87056
Hazardous Location		E501628
Control drawing		116-0453
CSA approval		cCSAus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 100 °C (-13 ... 212 °F)
<b>Mechanical specifications</b>		
Connection type		cable PVC , 6 m
Core cross-section		0.75 mm <sup>2</sup>
Housing material		PBT
Degree of protection		IP67
Cable		
Bending radius		> 10 x cable diameter
<b>Equipment protection level Ga</b>		
CE marking		[*PD-Z02585A*]
ATEX marking		⊕ II 1G Ex ia IIC T6...T1 Ga The Ex-related marking can also be printed on the enclosed label.
Standards		EN 60079-0:2012+A11:2013, EN 60079-11:2012 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions
Appropriate type		SJ5-K...
Effective internal capacitance	C <sub>i</sub>	max. 50 nF ; a cable length of 10 m is considered.
Effective internal inductance	L <sub>i</sub>	max. 550 μH ; a cable length of 10 m is considered.
Highest permissible ambient temperature		Details of the correlation between the type of circuit connected, the maximum permissible ambient temperature, the temperature class, and the effective internal reactance values can be found on the EU-type examination certificate. <b>Note:</b> Use the temperature table for category 1 !!! The 20 % reduction in accordance with EN 1127-1 has already been applied to the temperature table for category 1.
<b>Equipment protection level Gb</b>		
CE marking		[*PD-Z02585A*]
ATEX marking		⊕ II 1G Ex ia IIC T6...T1 Ga The Ex-related marking can also be printed on the enclosed label.
Standards		EN 60079-0:2012+A11:2013, EN 60079-11:2012 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions
Appropriate type		SJ5-K...
Effective internal capacitance	C <sub>i</sub>	max. 50 nF ; a cable length of 10 m is considered.
Effective internal inductance	L <sub>i</sub>	max. 550 μH ; a cable length of 10 m is considered.
Maximum permissible ambient temperature	T <sub>amb</sub>	Details of the correlation between the type of circuit connected, the maximum permissible ambient temperature, the temperature class, and the effective internal reactance values can be found on the EU-type examination certificate.
<b>Equipment protection level Da</b>		
CE marking		[*PD-Z02585A*]
ATEX marking		⊕ II 1D Ex ia IIIC T135°C Da The Ex-related marking can also be printed on the enclosed label.
Standards		EN 60079-0:2012+A11:2013, EN 60079-11:2012 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions
Appropriate type		SJ5-K...
Effective internal capacitance	C <sub>i</sub>	max. 50 nF ; a cable length of 10 m is considered.
Effective internal inductance	L <sub>i</sub>	max. 550 μH ; a cable length of 10 m is considered.

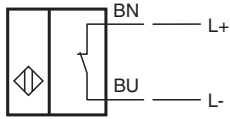
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## Technical Data

### General information

Use in the hazardous area	see instruction manuals
Category	1G; 2G; 1D

## Connection



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