

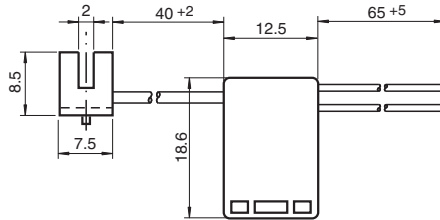
Inductive slot sensor

SJ1,8-N-Y16109

- 1.8 mm slot width
- Comfort series



Dimensions



Technical Data

General specifications

Switching function	Normally closed (NC)
Output type	NAMUR
Slot width	2 mm
Depth of immersion (lateral)	4 ... 5 typ. 4.5 mm
Output type	2-wire

Nominal ratings

Nominal voltage	U_o	8.2 V (R_i approx. 1 k Ω)
Operating voltage	U_B	5 ... 25 V
Switching frequency	f	0 ... 5000 Hz
Hysteresis	H	0.3 ... 0.6 mm
Current consumption		
Measuring plate not detected		min. 4 mA at nominal voltage
Measuring plate detected		≤ 0.65 mA at nominal voltage

Functional safety related parameters

MTTF _d	5270 a
Mission Time (T_M)	20 a
Diagnostic Coverage (DC)	0 %

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

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

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PEPPERL+FUCHS

Technical Data

Approvals and certificates

IECEX approval

Equipment protection level Gb	IECEX PTB 11.0091X
Equipment protection level Da	IECEX PTB 11.0091X
Equipment protection level Mb	IECEX PTB 11.0091X

ATEX approval

Equipment protection level Gb	PTB 99 ATEX 2219 X
Equipment protection level Da	PTB 99 ATEX 2219 X

UL approval

cULus Listed, General Purpose

Ambient conditions

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

Connection type	flexible leads
Housing material	Crastin (PBTB)
Degree of protection	IP67

General information

Use in the hazardous area	see instruction manuals
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Connection

