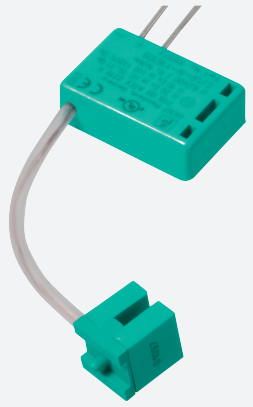
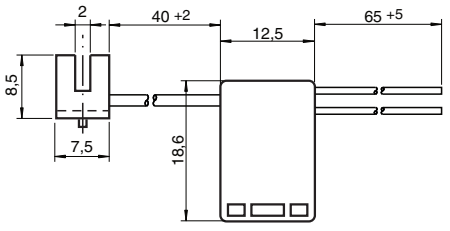


Inductive slot sensor

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 V
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

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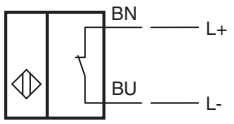
Technical Data

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
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
FM approval	
Control drawing	116-0165
UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
Ambient conditions	
Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)
Mechanical specifications	
Connection type	flexible leads
Housing material	Crastin (PBTB)
Degree of protection	IP67
General information	
Use in the hazardous area	see instruction manuals

Connection



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