



Model Number

SJ3,5-N-GN

Features

• 3.5 mm slot width

Technical Data		
General specifications		
Switching function		Norm
Output type		NAM
Slot width		3.5 m
Depth of immersion (lateral)		5 7
Output type		2-wire
Nominal ratings		
Nominal voltage	Uo	8.2 V
Operating voltage	U _B	5 2
Switching frequency	f	0 3
Hysteresis	Н	0.11.
Suitable for 2:1 technology		yes , l
Current consumption		
Measuring plate not detected		≥3 m
Measuring plate detected		≤1 m
Functional safety related paramet	ters	
MTTFd		11150
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Ambient conditions		
Ambient temperature		-25
Mechanical specifications		
Connection type		flexibl
Core cross-section		0.14 r
Housing material		PBT/F
Degree of protection		IP67
General information		
Use in the hazardous area		see in
Category		1G; 2
Compliance with standards and		
directives		
Standard conformity		
NAMUR		EN 60
		IEC 6
Standards		EN 60
		EN 60
		IEC 6

Approvals and certificates UL approval

CSA approval CCC approval

Dimensions

Normally closed (NC) NAMUR 3.5 mm 5 ... 7 mm, typ. 6 mm 2-wire 8.2 V (R_i approx. 1 kΩ) 5 ... 25 V 0 ... 3000 Hz 0.11 ... 0.2 mm yes , Reverse polarity protection diode not required \ge 3 mA at nominal voltage \le 1 mA at nominal voltage 11150 a 20 a 0 % -25 ... 100 °C (-13 ... 212 °F) flexible leads LiY , 500 mm 0.14 mm² PBT/PPS

see instruction manuals 1G; 2G; 1D

EN 60947-5-6:2000 IEC 60947-5-6:1999 EN 60947-5-2:2007 EN 60947-5-2:41:2012 IEC 60947-5-2:2007 IEC 60947-5-2:4MD 1:2012

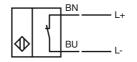
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cULus Listed, General Purpose cCSAus Listed, General Purpose CCC approval / marking not required for products rated ≤36 V

3.5

ø 1.85

Electrical Connection



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

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ATEX marking \textcircled{K} II 1G Ex ia IIC T6T1 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 SJ3,5N Effective internal capacitance C _i \leq 50 nF ; a cable length of 10 m is considered. Effective internal inductance L _i \leq 250 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		
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	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. <u>Note:</u> 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.	
Equipment protection level Gb		
CE marking C€0102		
ATEX marking The Ex-related marking can also be printed on the enclosed label.		
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Equipment protection level Da		
CE marking CE 0102		
ATEX marking The Ex-related marking can also be printed on the enclosed label.		
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