







Model Number

SJ5-K-N

Features

5 mm slot width

Depth of immersion (lateral) 8 ... 10 mm , typ. 9 mm Output type

Nominal ratings

8.2 V (R_i approx. 1 k Ω) 5 ... 25 V Nominal voltage Operating voltage Switching frequency UΒ 0 ... 2000 Hz Hysteresis 0.05 ... 0.3 mm

Design data Current consumption

Measuring plate not detected ≥ 3 mA at nominal voltage ≤ 1 mA at nominal voltage Measuring plate detected

Functional safety related parameters

MTTF_d
Mission Time (T_M)
Diagnostic Coverage (DC) 4560 a 20 a 0 %

Ambient conditions

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

Mechanical specifications

cable PVC , 2 m Connection type Core cross-section $0.75 \, \text{mm}^2$ Housing material Degree of protection IP67

Cable

Bending radius > 10 x cable diameter General information

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

Category

Compliance with standards and

directives

Standard conformity EN 60947-5-6:2000 NAMUR

IEC 60947-5-6:1999 EN 60947-5-2:2007 Standards EN 60947-5-2/A1:2012 IEC 60947-5-2:2007

IEC 60947-5-2 AMD 1:2012

Approvals and certificates

FM approval 116-0165 Control drawing

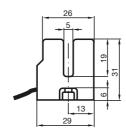
cULus Listed, General Purpose UL approval

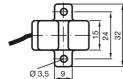
Ordinary Location E87056 Hazardous Location E501628 Control drawing 116-0453

cCSAus Listed, General Purpose

CSA approval CCC approval / marking not required for products rated ≤36 V

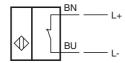
Dimensions





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Electrical Connection



Equipment protection level Ga	
CE marking C	€0102
	l 1G Ex ia IIC T6T1 Ga ie Ex-related marking can also be printed on the enclosed label.
Ign	N 60079-0:2012+A11:2013, EN 60079-11:2012 nition protection "Intrinsic safety" se is restricted to the following stated conditions
Appropriate type SJ!	J5-K
Effective internal capacitance $C_i \le 5$	50 nF; a cable length of 10 m is considered.
Effective internal inductance $L_i \leq 5$	550 μH; a cable length of 10 m is considered.
ten No	etails of the correlation between the type of circuit connected, the maximum permissible ambient temperature, the mperature class, and the effective internal reactance values can be found on the EU-type examination certificate. <a href="https://doi.org/10.250/journal.org/10.250/</td></tr><tr><td>Equipment protection level Gb</td><td></td></tr><tr><td>CE marking C</td><td>€0102</td></tr><tr><td></td><td>ll 1G Ex ia IIC T6T1 Ga
le Ex-related marking can also be printed on the enclosed label.</td></tr><tr><td>lgn</td><td>N 60079-0:2012+A11:2013, EN 60079-11:2012
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Appropriate type SJ	J5-K
Effective internal capacitance $C_i \leq 5$	50 nF; a cable length of 10 m is considered.
Effective internal inductance $L_i \leq 5$	550 μH ; a cable length of 10 m is considered.
	etails of the correlation between the type of circuit connected, the maximum permissible ambient temperature, the mperature class, and the effective internal reactance values can be found on the EU-type examination certificate.
Equipment protection level Da	
CE marking (€0102
	ll 1D Ex ia IIIC T135°C Da le Ex-related marking can also be printed on the enclosed label.
lgn	N 60079-0:2012+A11:2013, EN 60079-11:2012 nition protection "Intrinsic safety" se is restricted to the following stated conditions
Appropriate type SJ!	
	J5-K
Effective internal capacitance $C_i \le 5$	15-K 50 nF ; a cable length of 10 m is considered.