

Model Number

NJ5-18GK-N

Features

- 5 mm flush
- Usable up to SIL 2 acc. to IEC 61508

Accessories

BF 18

Mounting flange, 18 mm

| Technical Data | |
|---|---|
| General specifications | |
| Switching function | |
| Output type | |
| Rated operating distance | S |
| Installation | |
| Assured operating distance | S |
| Reduction factor r _{Al} | |
| Reduction factor r _{Cu} | |
| Reduction factor r ₃₀₄ | |
| Output type | |
| Nominal ratings | |
| Nominal voltage | ι |
| Switching frequency | f |
| Hysteresis | H |
| Current consumption | |
| Measuring plate not detected | |
| Measuring plate detected | |
| Ambient conditions | |
| Ambient temperature | |
| Mechanical specifications | |
| Connection type | |
| Core cross-section | |
| Housing material | |
| Sensing face | |
| Degree of protection | |
| Cable | |
| Bending radius | |
| General information | |
| Use in the hazardous area | |
| Category | |
| Compliance with standards and directives | |
| Standard conformity | |
| NAMUR | |
| Standards | |

Approvals and certificates

EAC conformity FM approval

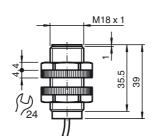
- Control drawing
- UL approval CSA approval CCC approval

Dimensions

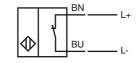
Normally closed (NC) NAMUR 5 mm s_n flush 0 ... 4.05 mm 0.4 sa 0.3 0.85 2-wire 8.2 V (R_i approx. 1 kΩ) 0 ... 500 Hz Uo 1 ... 10 typ. 5 % Н \geq 3 mA $\leq 1 \text{ mA}$ -25 ... 100 °C (-13 ... 212 °F) cable PVC , 2 m 0.75 mm² PBT/PPS PBT IP66 / IP68 > 10 x cable diameter see instruction manuals 2G; 1D EN 60947-5-6:2000 IEC 60947-5-6:1999

EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

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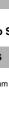


Electrical Connection



TR CU 012/2011

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



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

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| Equipment protection level Gb | |
|---|---|
| CE marking | C € 0102 |
| ATEX marking | (x) II 2G Ex ia IIC T6T1 Gb 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 | NJ 5-18GK-N |
| Effective internal inductivity C _i | \leq 70 nF ; a cable length of 10 m is considered. |
| Effective internal inductance L _i | \leq 50 μH ; a cable length of 10 m is considered. |
| Maximum permissible ambient temperature T _{an} | b 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 EC-type examination certificate. |
| Equipment protection level Da | |
| CE marking | C € 0102 |
| ATEX marking | $\langle\!\!\!\!\! m tx\rangle$ 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 | NJ 5-18GK-N |
| Effective internal inductivity C _i | \leq 70 nF ; a cable length of 10 m is considered. |
| Effective internal inductance L _i | \leq 50 μH ; a cable length of 10 m is considered. |
| Maximum permissible ambient temperature T _{an} | Details of the correlation between the type of circuit connected, the maximum permissible ambient temperature, the surface temperature, and the effective internal reactance values can be found on the EC-type-examination certificate. The maximum permissible ambient temperature of the data sheet must be noted, in addition, the lower of the two values must be maintained. |

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