

Model Number

NJ1,5-6,5-N-5M

Features

- **Comfort series** ٠
- Usable up to SIL 2 acc. to IEC 61508 •

Accessories

BF 6,5

Mounting flange, 6.5 mm

Technical Data General specifications Switching function Output type Rated operating distance Installation Assured operating distance Reduction factor r_{Al} Reduction factor r_{Cu} Reduction factor r₃₀₄ Output type Nominal ratings Nominal voltage Uo Switching frequency н Hysteresis Suitable for 2:1 technology 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 UL approval CSA approval CCC approval

Normally closed (NC) NAMUR 1.5 mm flush 0 ... 1.215 mm 0.22 0.19 0.65 2-wire 8 V 0 ... 5000 Hz typ. % yes, Reverse polarity protection diode not required ≥3 mA $\leq 1 \text{ mA}$ -25 ... 100 °C (-13 ... 212 °F) cable PVC , 5 m 0.14 mm² Stainless steel 1.4305 / AISI 303 PBT IP67 > 10 x cable diameter see instruction manuals 1G; 2G; 1D

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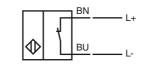
EN 60947-5-6:2000 IEC 60947-5-6:1999 EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

TR CU 012/2011 cULus Listed, General Purpose cCSAus Listed, General Purpose CCC approval / marking not required for products rated ≤36 V

Dimensions



Electrical Connection



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

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| Equipment protection level Ga | | |
|---|----------------|---|
| CE marking | | C €0102 |
| ATEX marking | | (Ex) 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 | | NJ 1,5-6,5N |
| Effective internal capacitance | Ci | \leq 30 nF ; a cable length of 10 m is considered. |
| Effective internal inductance | Li | \leq 50 μH ; a cable length of 10 m is considered. |
| Ambient temperature | | 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. <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 | | €€0102 |
| ATEX marking | | (Ex) 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 | | NJ 1,5-6,5N |
| Effective internal capacitance | Ci | \leq 30 nF ; a cable length of 10 m is considered. |
| Effective internal inductance | Li | \leq 50 μH ; a cable length of 10 m is considered. |
| Maximum permissible ambient temperature T_{amb} | | 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 | | 🐵 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 1,5-6,5N |
| Effective internal capacitance | C _i | \leq 30 nF ; a cable length of 10 m is considered. |
| Effective internal inductance | Li | \leq 50 μH ; a cable length of 10 m is considered. |
| Maximum permissible ambient temperature T_{amb} | | 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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