









Model Number

NJ10-22-N

Features

10 mm non-flush

Nominal ratings

8.2 V (R $_{\rm i}$ approx. 1 k Ω) 0 ... 2000 Hz Nominal voltage Switching frequency Н 1 ... 9 typ. 5 % Hysteresis

Current consumption Measuring plate not detected \geq 3 mA ≤ 1 mA

Measuring plate detected Functional safety related parameters

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

Ambient conditions Ambient temperature

Mechanical specifications

Connection type cable PVC, 2 m Core cross-section 0.75 mm² Housing material Sensing face PBT PBT IP68 Degree of protection

Cable

> 10 x cable diameter Bending radius

General information

Use in the hazardous area see instruction manuals 2G

Category Compliance with standards and

directives

Standard conformity NAMUR EN 60947-5-6:2000 IEC 60947-5-6:1999 EN 60947-5-2:2007 Standards

Approvals and certificates

FM approval Control drawing 116-0165

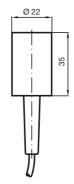
UL approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose

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

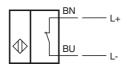
IEC 60947-5-2:2007

-25 ... 100 °C (-13 ... 212 °F)

Dimensions



Electrical Connection



| 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 10-22-N |
| Effective internal capacitance | C _i | \leq 130 nF ; a cable length of 10 m is considered. |
| Effective internal inductance | L _i | \leq 100 μH ; a cable length of 10 m is considered. |
| Maximum permissible ambient te | mperature 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 EU-type examination certificate. |
| Special conditions | | |
| Equipment protection level Da | | |
| CE marking | | €0102 |
| ATEX marking | | (x) 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 10-22-N |
| Effective internal capacitance | C _i | \leq 130 μF A cable length of 10 m is considered. |
| Effective internal inductance | L _i | \leq 100 μH A cable length of 10 m is considered. |
| Special conditions | | |
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