









Model Number

NJ4-F-N

Features

- Comfort series
- 4 mm non-flush

| Technical Data | | | | |
|------------------------|--|--|--|--|
| General specifications | | | | |
| Switching function | | | | |

| Switching function | | Indimally closed (INC) |
|-----------------------------------|----------------|------------------------|
| Output type | | NAMUR |
| Rated operating distance | s _n | 4 mm |
| Installation | | non-flush |
| Assured operating distance | sa | 0 3.24 mm |
| Reduction factor r _{Al} | | 0.4 |
| Reduction factor r _{Cu} | | 0.3 |
| Reduction factor r ₃₀₄ | | 0.8 |
| Output type | | 2-wire |
| | | |

Nominal ratings

Measuring plate not detected ≥ 3 mA
Measuring plate detected ≤ 1 mA

Ambient conditions

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

Mechanical specifications
Connection type

Connection type cable PVC , 2 m
Core cross-section 0.75 mm²
Housing material PA 6
Sensing face PA 6
Degree of protection IP67

Cable

Bending radius > 10 x cable diameter

General information

Use in the hazardous area see instruction manuals

Category 1G; 2G Compliance with standards and

directives

Standard conformity

NAMUR EN 60947-5-6:2000 IEC 60947-5-6:1999 Standards EN 60947-5-2:2007 EN 60947-5-2/A1:2012

IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

Normally closed (NC)

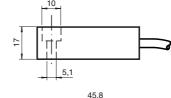
Approvals and certificates

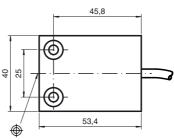
FM approval
Control drawing 116-0165
UL approval
Ordinary Location E87056
Hazardous Location E501628

Control drawing 116-0451
CSA approval cCSAus Listed, General Purpose

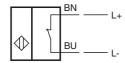
CCC approval / marking not required for products rated ≤36 V

Dimensions





Electrical Connection



| Equipment protection level Ga | | | | |
|--|----------------|---|--|--|
| CE marking | | €0102 | | |
| ATEX marking | | Il 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 | | NJ4-F-N | | |
| Effective internal capacitance | C _i | ≤ 150 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. | | |
| Highest permissible 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 EU-type examination certificate. Note: 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. | | |
| Special conditions | | | | |
| Equipment protection level Gb | | | | |
| CE marking | | C €0102 | | |
| ATEX marking | | (☑) 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 | | NJ4-F-N | | |
| Effective internal capacitance | C _i | ≤ 150 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 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 EU-type examination certificate. | | |
| Special conditions | | | | |
| Equipment protection level Da | | | | |
| CE marking | | C €0102 | | |
| ATEX marking | | (ऒ 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 | | NJ4-F-N | | |
| Effective internal capacitance | C _i | \leq 150 μF A cable length of 10 m is considered. | | |
| Effective internal inductance | L _i | $\leq 100~\mu H$ A cable length of 10 m is considered. | | |
| Special conditions | | | | |

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