

Model Number

NJ8-18GK-N-150

Features

- 8 mm non-flush
- Temperature range -40 ... 150 °C (-40 ... 302 °F)

| Technical Data | |
|-----------------------------------|----------------|
| General specifications | |
| Switching function | |
| Output type | |
| Rated operating distance | s _n |
| Installation | |
| Assured operating distance | s _a |
| Reduction factor r _{Al} | |
| Reduction factor r _{Cu} | |
| Reduction factor r ₃₀₄ | |
| Output type | |
| Nominal ratings | |
| Nominal voltage | U _o |
| Switching frequency | f |
| 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 | |
| NAMUR | |
| Standards | |
| Standards | |
| | |
| | |
| Approvals and certificates | |
| EAC conformity | |

EAC conformity UL approval

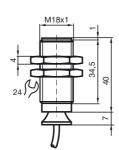
UL approval CSA approval CCC approval

Normally closed (NC) NAMUR 8 mm non-flush 0 ... 6.48 mm 0.4 0.3 0.85 2-wire 8.2 V (R_i approx. 1 kΩ) 0 ... 200 Hz ≥3 mA ≤1 mA -40 ... 150 °C (-40 ... 302 °F) cable SIHF , 2 m 0.34 mm² PPS PPS IP65 > 10 x cable diameter see instruction manuals 1G; 2G

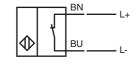
EN 60947-5-6:2000 IEC 60947-5-6:1999 EN 60947-5-2:2007 EN 60947-5-2:A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

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



Release date: 2018-04-19 08:23 Date of issue: 2018-04-19 106466_eng.xml



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| Equipment protection level Ga | | | | |
|---|----------------|--|--|--|
| CE marking | | C € 0102 | | |
| ATEX marking | | $\overline{\scriptsize{(x)}}$ 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 | | NJ8-18GK-N-150 | | |
| Effective internal inductivity | Ci | \leq 70 nF ; a cable length of 10 m is considered. | | |
| Effective internal inductance | Li | \leq 50 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 | | $\overline{\scriptsize{(x)}}$ 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 | | NJ8-18GK-N-150 | | |
| Effective internal inductivity | C _i | \leq 70 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 EU-type examination certificate. | | |
| Special conditions | | | | |
| Equipment protection level Da | | | | |
| CE marking | | C €0102 | | |
| ATEX marking | | $\langle \!$ | | |
| 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 | | NJ8-18GK-N-150 | | |
| Effective internal inductivity | Ci | \leq 70 μF A cable length of 10 m is considered. | | |
| Effective internal inductance | Li | \leq 50 μH A cable length of 10 m is considered. | | |
| Special conditions | | | | |

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