

NJ8-18GK-N-10M

Features

- **Comfort series**
- 8 mm non-flush
- Usable up to SIL 2 acc. to IEC 61508

Accessories

BF 18

Mounting flange, 18 mm

Technical Data

General specifications Switching function

Normally closed (NC) NAMUR Output type Rated operating distance 8 mm Installation non-flush Assured operating distance 0 ... 6.48 mm 0.4 Reduction factor r_{Cu} 0.3 Reduction factor r₃₀₄ 0.85 Output type 2-wire

Nominal ratings

Nominal voltage 0 ... 200 Hz Switching frequency 1 ... 7 typ. 4 % Hysteresis Current consumption

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

Ambient conditions

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

Mechanical specifications

Connection type
Core cross-section cable PVC, 10 m 0.75 mm² PBT/PPS Housing material Sensing face PBT IP68 Degree of protection

Cable

Bending radius > 10 x cable diameter

General information

Use in the hazardous area see instruction manuals

2G; 1D Category

Compliance with standards and directives

Standard conformity

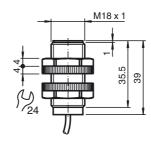
NAMUR EN 60947-5-6:2000 IEC 60947-5-6:1999 EN 60947-5-2:2007 EN 60947-5-2/A1:2012 Standards

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

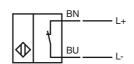
Approvals and certificates

EAC conformity TR CU 012/2011 FM approval Control drawing 116-0165 UL approval cULus Listed, General Purpose cCSAus Listed, General Purpose CSA approval CCC approval CCC approval / marking not required for products rated ≤36 V

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 8-18GK-N
Effective internal capacitance 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_{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	(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 8-18GK-N
Effective internal capacitance C _i	≤ 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_{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.