









# **Model Number**

NJ8-18GK-N-5M

### **Features**

- Comfort series
- 8 mm non-flush

## **Accessories**

BF 18

Mounting flange, 18 mm

### **Technical Data**

### General specifications Switching function

Normally closed (NC) NAMUR Output type Rated operating distance Installation 8 mm non-flush Assured operating distance 0 ... 6.48 mm 0.4 Reduction factor r<sub>Cu</sub> 0.3 Reduction factor r<sub>304</sub> 0.85 Output type 2-wire

#### **Nominal ratings**

8 V 0 ... 200 Hz Nominal voltage 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, 5 m 0.75 mm<sup>2</sup> 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

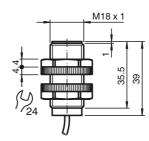
IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

Approvals and certificates

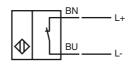
EAC conformity TR CU 012/2011 UL approval

cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose CCC approval / marking not required for products rated ≤36 V

### **Dimensions**



### **Electrical Connection**



Equipment protection level Gb		
CE marking		€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 <sub>i</sub>	≤ 70 nF; a cable length of 10 m is considered.
Effective internal inductance	L <sub>i</sub>	$\leq$ 50 $\mu H$ ; a cable length of 10 m is considered.
Maximum permissible ambient temperature T <sub>amb</sub>		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		€0102
ATEX marking		(Ex) 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 <sub>i</sub>	≤ 70 nF; a cable length of 10 m is considered.
Effective internal inductance	L <sub>i</sub>	$\leq$ 50 $\mu H$ ; a cable length of 10 m is considered.
Maximum permissible ambient temperature T <sub>amb</sub>		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.