









## **Model Number**

NJ5-18GK-N-150-15M

## **Features**

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

Technical	Data
General specif	fications

•		
Switching function		Normally closed (NO
Output type		NAMUR
Rated operating distance	•	5 mm

flush

2-wire

Assured operating distance 0 ... 4.05 mm 0.4 Reduction factor r<sub>Cu</sub> 0.3 Reduction factor r<sub>304</sub> 0.85

Output type **Nominal ratings** 

Installation

8 V 0 ... 500 Hz Nominal voltage Switching frequency Current consumption

Measuring plate not detected ≥ 3 mA Measuring plate detected

Measuring plate detected

Functional safety related parameters ≤ 1 mA

MTTF<sub>d</sub>
Mission Time (T<sub>M</sub>)
Diagnostic Coverage (DC) 4542 a 20 a 0 %

Ambient conditions

Ambient temperature -40 ... 150 °C (-40 ... 302 °F)

Mechanical specifications

Connection type cable SIHF, 15 m Core cross-section 0.34 mm<sup>2</sup> Housing material PPS PPS Sensing face IP65

Degree of protection

Bending radius > 10 x cable diameter

General information

Use in the hazardous area see instruction manuals

1G; 2G Category

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

Approvals and certificates

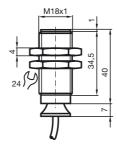
EAC conformity TR CU 012/2011

UL approval cULus Listed, General Purpose CSA approval

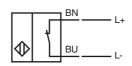
cCSAus Listed, General Purpose CCC approval / marking not required for products rated ≤36 V

IEC 60947-5-2 AMD 1:2012

## **Dimensions**



## **Electrical Connection**



Equipment protection level Ga		
CE marking		€0102
ATEX marking		⊞ I G 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		NJ5-18GK-N-150
Effective internal capacitance	Ci	≤ 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.
Highest permissible ambient temp	erature	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. <a href="Note:">Note:</a> 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		€0102
ATEX marking		
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		NJ5-18GK-N-150
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 tem	perature 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 EU-type examination certificate.
Special conditions		
Equipment protection level Da		
CE marking		C €0102
ATEX marking		⟨
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		NJ5-18GK-N-150
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Special conditions		