

### **Model Number**

NJ1,5-6,5-N-5M

#### **Features**

- **Comfort series** ٠
- Usable up to SIL 2 acc. to IEC 61508 •

## Accessories

BF 6,5

Mounting flange, 6.5 mm

**Technical Data** General specifications Switching function Output type Rated operating distance Installation Assured operating distance Reduction factor  $r_{Al}$ Reduction factor  $r_{Cu}$ Reduction factor r<sub>304</sub> Output type Nominal ratings Nominal voltage Uo Switching frequency н Hysteresis Suitable for 2:1 technology 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 Standards

### Approvals and certificates

EAC conformity UL approval CSA approval CCC approval

# Normally closed (NC) NAMUR 1.5 mm flush 0 ... 1.215 mm 0.22 0.19 0.65 2-wire 8 V 0 ... 5000 Hz typ. % yes, Reverse polarity protection diode not required ≥3 mA $\leq 1 \text{ mA}$ -25 ... 100 °C (-13 ... 212 °F) cable PVC , 5 m 0.14 mm<sup>2</sup> Stainless steel 1.4305 / AISI 303 PBT IP67 > 10 x cable diameter see instruction manuals 1G; 2G; 1D

NJ1,5-6,5-N-5M

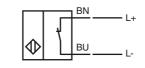
EN 60947-5-6:2000 IEC 60947-5-6:1999 EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

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**



Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group

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Equipment protection level Ga		
CE marking		C €0102
ATEX marking		(Ex) 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		NJ 1,5-6,5N
Effective internal capacitance	Ci	$\leq$ 30 nF ; a cable length of 10 m is considered.
Effective internal inductance	Li	$\leq$ 50 $\mu H$ ; a cable length of 10 m is considered.
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 EC-type examination certificate. <u>Note</u> : 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.
Equipment protection level Gb		
CE marking		€€0102
ATEX marking		(Ex) 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		NJ 1,5-6,5N
Effective internal capacitance	Ci	$\leq$ 30 nF ; a cable length of 10 m is considered.
Effective internal inductance	Li	$\leq$ 50 $\mu H$ ; 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		🐵 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 1,5-6,5N
Effective internal capacitance	C <sub>i</sub>	$\leq$ 30 nF ; a cable length of 10 m is considered.
Effective internal inductance	Li	$\leq$ 50 $\mu H$ ; 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.

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