









Model Number

NJ1,5-8GM-N

Features

- 1.5 mm flush
- Usable up to SIL 2 acc. to IEC 61508

Accessories

BF 8

Mounting flange, 8 mm

Technical Data

General specifications

Switching function Normally closed (NC) NAMUR Output type Rated operating distance 1.5 mm Installation flush Assured operating distance 0 ... 1.215 mm Actual operating distance Reduction factor r_{Al} 1.35 ... 1.65 mm typ. 0.4 Reduction factor r_{Cu} Reduction factor r₃₀₄ 0.85

Output type **Nominal ratings**

8.2 V (R_i approx. 1 $k\Omega$) Nominal voltage Switching frequency 0 ... 5000 Hz 1 ... 10 typ. 5 % Hysteresis

Suitable for 2:1 technology yes , Reverse polarity protection diode not required Current consumption

2-wire

Measuring plate not detected \geq 3 mA ≤1 mA

Measuring plate detected **Ambient conditions**

Ambient temperature

-25 ... 100 °C (-13 ... 212 °F)

Mechanical specifications

Connection type cable PVC , 2 m Core cross-section 0.14 mm²

Stainless steel 1.4305 / AISI 303 Housing material

Sensing face Degree of protection IP66 / IP67 Cable

> 10 x cable diameter Bending radius

General information

Use in the hazardous area see instruction manuals

Category 1G; 2G

Compliance with standards and directives

Standard conformity

EN 60947-5-6:2000 IEC 60947-5-6:1999 NAMUR

EN 60947-5-2:2007 Standards IEC 60947-5-2:2007

Approvals and certificates

FM approval

116-0165 Control drawing

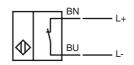
UL approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose

CCC approval CCC approval / marking not required for products rated ≤36 V

Dimensions



Electrical Connection



Equipment protection level Ga		
CE marking		€0102
Effective internal inductivity	C _i	≤ 30 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.
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.
Equipment protection level Gb		
CE marking		C €0102
Effective internal inductivity	C _i	\leq 30 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 EU-type examination certificate.
Equipment protection level Da		
CE marking		€0102
Effective internal inductivity	C _i	\leq 30 μF A cable length of 10 m is considered.
Effective internal inductance	L _i	\leq 50 μH A cable length of 10 m is considered.

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