









Model Number

NJ1,5-8GM-N-10M

Features

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

Accessories

BF8

Mounting flange, 8 mm

Technical Data

General specifications

Switching function Normally closed (NC) Output type Rated operating distance NAMUR 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 2-wire

Output type **Nominal ratings**

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

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

Measuring plate not detected \geq 3 mA

≤1 mA Measuring plate detected

Ambient conditions

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

Mechanical specifications

Connection type cable PVC , 10 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

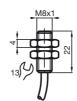
Standard conformity EN 60947-5-6:2000 IEC 60947-5-6:1999 NAMUR EN 60947-5-2:2007 Standards

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

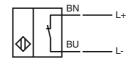
Approvals and certificates

EAC conformity TR CU 012/2011 cULus Listed, General Purpose UL approval 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
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		NJ1,5-8GM-N
Effective internal capacitance	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 tem	perature	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.
Special conditions		
Equipment protection level Gb		
CE marking		€0102
ATEX marking		(x) 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		NJ1,5-8GM-N
Effective internal capacitance	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.
Special conditions		
Equipment protection level Da		
CE marking		€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		NJ1,5-8GM-N
Effective internal capacitance	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.
Special conditions		