

(E 0102

Model Number

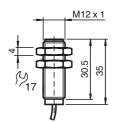
NJ4-12GM-N-Y22960

Features

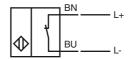
- Comfort series
- 4 mm non-flush

| Technical Data | | |
|--|----|---|
| General specifications | | |
| Switching element function | | NAMUR, NC |
| Rated operating distance | Sn | 4 mm |
| Installation | | non-flush |
| Output polarity | | NAMUR |
| Assured operating distance | sa | 0 3.24 mm |
| Reduction factor r _{AI} | | 0.4 |
| Reduction factor r _{Cu} | | 0.3 |
| Reduction factor r ₃₀₄ | | 0.85 |
| Nominal ratings | | |
| Nominal voltage | Uo | 8 V |
| Switching frequency | f | 0 1500 Hz |
| Current consumption | | |
| Measuring plate not detected | | ≥ 3 mA |
| Measuring plate detected | | ≤ 1 mA |
| Standard conformity | | |
| EMC in accordance with | | IEC / EN 60947-5-2:2004 |
| Ambient conditions | | |
| Ambient temperature | | -25 100 °C (-13 212 °F) |
| Mechanical specifications | | , i |
| Connection type | | cable PVC, 2 m |
| Core cross-section | | 0.34 mm ² |
| Housing material | | PBT |
| Sensing face | | PBT |
| Degree of protection | | IP68 |
| General information | | |
| Use in the hazardous area | | see instruction manuals |
| Category | | 2G |
| Compliance with standards and directives | | |
| Standard conformity | | |
| NAMUR | | EN 60947-5-6:2000 IEC 60947-5-6:1999 |
| Standards | | EN 60947-5-2:2007 IEC 60947-5-2:2007 |

Dimensions



Electrical Connection



ATEX 2G

Instruction

Device category 2G

EC-Type Examination Certificate CE marking

ATEX marking

Directive conformity

Standards

Appropriate type

Effective internal capacitance Ci Effective internal inductance Li

General

Ambient temperature

Installation, Comissioning

Maintenance

Specific conditions

Protection from mechanical danger

Electrostatic charging

Manual electrical apparatus for hazardous areas

for use in hazardous areas with gas, vapour and mist PTB 00 ATEX 2048 X €0102

⟨ II 2G EEx ia IIC T6

EN 50014:1997, EN 50020:1994 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions NJ 4-12GM-N..

≤ 45 nF; a cable length of 10 m is considered.

 \leq 50 μH ; a cable length of 10 m is considered.

The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The EC-Type Examination Certificate has to be observed. The special conditions must be adhered to!

Directive 94/9/EG and hence also EC-Type Examination Certificates apply in general only to the use of electrical apparatus under atmospheric conditions.

The use in ambient temperatures of > 60 °C was tested with regard to hot surfaces by the mentioned certification authority.

If the equipment is not used under atmospheric conditions, a reduction of the permissible minimum ignition energies may have to be taken into consideration

The temperature ranges, according to temperature class, are given in the EC-Type Examination Certificate.

Laws and/or regulations and standards governing the use or intended usage goal must be observed. The intrinsic safety is only assured in connection with an appropriate related apparatus and according to the proof of intrinsic safety.

No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.

When used in the temperature range below -20 °C the sensor should be protected from knocks by the provision of an additional housing.

Electrostatic charges must be avoided on the mechanical housing components. Dangerous electrostatic charges on the mechanical housing components can be avoided by incorporating these in the equipotential bonding.



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