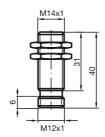
Dimensions







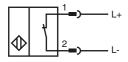
Model Number

NJ2,5-14GM-N-V1-Y21146

Features

- **Comfort series**
- Usable up to SIL2 acc. to IEC 61508
- 2.5 mm flush

Connection



Pinout



Wire colors in accordance with EN 60947-5-6

| 1 | BN | (brown |
|---|----|--------|
| 2 | BU | (blue) |

Technical Data General specifications Switching element function Rated operating distance Installation

NAMUR, NC 2.5 mm s_n flush NAMUR Output polarity 0 ... 2.02 mm 0.4 Assured operating distance Reduction factor rAI Reduction factor r_{Cu} Reduction factor r₃₀₄ 0.3 0.85

Nominal ratings

Nominal voltage 8 V 0 ... 1500 Hz Switching frequency Current consumption

Measuring plate not detected \geq 3 mA Measuring plate detected ≤ 1 mA

Functional safety related parameters

11770 a Mission Time (T_M) 20 a 0 % Diagnostic Coverage (DC)

Ambient conditions

Ambient temperature 0 ... 90 °C (32 ... 194 °F)

Mechanical specifications

Connection type Device connector M12 x 1, 4-pin Stainless steel 1.4305 / AISI 303 Housing material PBT

Sensing face Protection degree General information

Use in the hazardous area see instruction manuals Category

Compliance with standards and directives

Standard conformity

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

Approvals and certificates

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

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ATEX 2G

Instruction

Device category 2G

Directive conformity Standard conformity

CE marking

Ex-identification

EC-Type Examination Certificate Appropriate type Effective internal capacitance Ci

Effective internal inductance L

General

Highest permissible 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 94/9/EG

EN 60079-0:2009, EN 60079-11:2007 Ignition protection "Intrinsic safety"
Use is restricted to the following stated conditions **C**€0102

⟨ II 2G Ex ia IIC T6 Gb

PTB 00 ATEX 2048 X

NJ2,5-14GM-N...

≤ 30 nF; a cable length of 10 m is considered.

 $\leq 50~\mu H$; 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.