M12 x 1

I

NAMUR, NC

2 mm

flush

0.3

0.85

8 V 0 ... 2000 Hz

 \geq 3 mA

≤ 1 mA

11770 a 20 a 0 %

-25 ... 100 °C (-13 ... 212 °F)

Stainless steel 1.4305 / AISI 303

see instruction manuals

EN 60947-5-6.2000 IEC 60947-5-6:1999 EN 60947-5-2:2007

IEC 60947-5-2:2007

cULus Listed, General Purpose

cCSAus Listed, General Purpose

116-0165F

cable PUR , 2 m

0.34 mm²

PBT IP67

2G

NAMUR 0 ... 1.62 mm 0.4

17

s_n

sa

Uo

35



Dimensions

Technical Data

General specifications Switching element function

Reduction factor r_{Cu}

Reduction factor r₃₀₄

Switching frequency Current consumption

Nominal ratings

Nominal voltage

Installation

Rated operating distance

Output polarity Assured operating distance Reduction factor r_{Al}

Measuring plate not detected

MTTF_d Mission Time (T_M) Diagnostic Coverage (DC)

Mechanical specifications Connection type

Ambient conditions Ambient temperature

Core cross-section

Housing material Sensing face Protection degree

General information Use in the hazardous area

Standard conformity NAMUR

Approvals and certificates FM approval

Control drawing UL approval

CSA approval

Category

Standards

Measuring plate detected Functional safety related parameters

Compliance with standards and directives

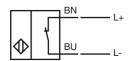
Model Number

NJ2-12GM-N-Y10638

Features

- **Comfort series** •
- 2 mm flush

Connection



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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 C_i Effective internal inductance L_i 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 $C \in 0102$

⟨€x⟩ II 2G Ex ia IIC T6 Gb

PTB 00 ATEX 2048 X NJ 2-12GM-N... \leq 30 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 $^{\circ}\text{C}$ 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.

