







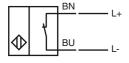
Model Number

NJ4-12GK-N-C92

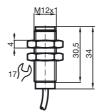
Features

- · Comfort series
- · 4 mm non-flush

Connection



Dimensions



Technical Data General specifications

Switching element function		NAMUR, NC
Rated operating distance	s _n	4 mm
Installation		non-flush
Output polarity		NAMUR
Assured operating distance	sa	0 3.24 mm
Reduction factor r _{Al}		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
Ambient conditions		
Ambient temperature		-25 100 °C (-13 212 °F)
Mechanical specifications		
Connection type		cable silicon, 200 mm
Core cross-section		0.34 mm ²
Housing material		PBT
Sensing face		PBT
Protection degree		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

Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	Products with a maximum operating voltage of \leq 36 V do not bear a CCC marking because they do not require approval.

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ATEX 2G

Instruction

Device category 2G

Directive conformity Standard conformity

CE marking

General

Ex-identification

 $\begin{tabular}{ll} EC-Type Examination Certificate \\ Appropriate type \\ Effective internal capacitance $\,C_i$ \\ Effective internal inductance L_i \\ \end{tabular}$

Highest permissible ambient temperature

Installation, Comissioning

Maintenance

Specific conditions

Protection from mechanical danger

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

€ 0102

II 2G Ex ia IIC T6 Gb

PTB 00 ATEX 2048 X

NJ 4-12GK-N...

 \leq 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 $^{\circ}$ 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.

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