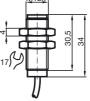
## **Dimensions CE** 0102 **Model Number** NJ2-12GK-N-Y40110 Features Comfort series • 2 mm flush **Technical Data** Connection G ΒN L+ ΒU Ŀ N F Accessories BF 12 Mounting flange, 12 mm A Ν Ģ c A



General specifications		
Switching element function		NAMUR, NC
	s <sub>n</sub>	2 mm
Installation		flush
Output polarity		NAMUR
	sa	0 1.62 mm
Reduction factor r <sub>Al</sub>		0.4
Reduction factor r <sub>Cu</sub>		0.3
Reduction factor r <sub>304</sub>		0.85
Nominal ratings		
	Uo	8 V
ernterning in equerity	f	0 2000 Hz
Current consumption		
Measuring plate not detected		≥ 3 mA
Measuring plate detected		≤1 mA
Functional safety related parameter	s	
MTTF <sub>d</sub>		11770 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
Ambient conditions		
Ambient temperature		-25 100 °C (-13 212 °F)
Mechanical specifications		
Connection type		cable, 150 mm with wire end ferrule
Core cross-section		0.34 mm <sup>2</sup>
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 dire	ectives	
Standard conformity		
NAMUR		EN 60947-5-6:2000
		IEC 60947-5-6:1999
Standards		EN 60947-5-2:2007
		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 C<sub>i</sub> Effective internal inductance L<sub>i</sub> General

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  $C \in 0102$ 

⟨€x⟩ II 2G Ex ia IIC T6 Gb

PTB 00 ATEX 2048 X NJ 2-12GK-N... ≤ 45 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  $^{\circ}\text{C}$  the sensor should be protected from knocks by the provision of an additional housing.

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