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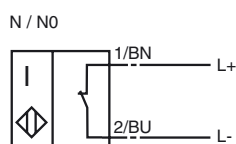
Model Number

NJ2-12GM-N-21M

Features

- Comfort series
- 2 mm embeddable

Connection



Instructions for the use in hazardous areas

- 1) Note: For use in hazardous areas reduced values should be observed!
- 2) For one sensor circuit; a cable with a length of 10 m is considered.

The temperature ranges, dependent on the temperature class, are listed in the prototype test certificate.

Inadmissible electrostatic discharges of the metal housing components have to be avoided. Dangerous electrostatic discharges of the metal housing components can be avoided by grounding these metal housing components, whereby very small metal housing components (e.g. screws) must not be grounded.

Further details can be found in the prototype test certificate.

Installation, commissioning

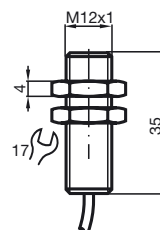
This product has been developed and approved for the use in hazardous areas for protection class intrinsic safety to EN 50014 and EN 50020.

The intrinsic safety is only assured in connection with an appropriate accompanying apparatus and in accordance with the proof of intrinsic safety.

The prototype test certificate and laws and/or regulations governing the use or intended usage goal must be observed.

The device has to be protected against strong electromagnetic fields and mechanical damages.

Dimensions



Technical Data

General specifications

Switching element function	NAMUR NC
Rated operating distance	s_n 2 mm
Installation	embeddable
Output polarity	NAMUR
Assured operating distance	s_a 0 ... 1.62 mm
Reduction factor r_{AI}	0.4
Reduction factor r_{Cu}	0.3
Reduction factor r_{V2A}	0.85

Nominal ratings

Nominal voltage	U_o 8 V
Switching frequency	f 0 ... 2000 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
Standards	DIN EN 60947-5-6 (NAMUR)

Ambient conditions

Ambient temperature	-25 ... 100 °C (248 ... 373 K) ¹⁾
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Mechanical specifications

Connection type	21 m, PVC cable
Core cross-section	0.34 mm ²
Housing material	Stainless steel
Sensing face	PBT
Protection degree	IP67



ATEX

Data for Ex areas

Standard conformity		EN 50014:1997 EN 50020:1994
Marking		 II 2G EEx ia IIC T6
Appropriate type		NJ 2-12GM-N...
EC-Type Examination Certificate		PTB 00 ATEX 2048 X
Effective internal inductivity	C _i	≤ 30 nF ²⁾
Effective internal inductance	L _i	≤ 50 μH ²⁾

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