CE 0102

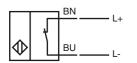
Model Number

NJ15-30GK-N-Y08943

Features

- Comfort series
- 15 mm non-flush

Connection



Subject to modifications without notice Pepperl+Fuchs Group www.pepperl-fuchs.com

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M30 x 1.5 36 +0.2 44 -0.2 36 ø 5 ø 8 32.5

Тес	hnica	Data
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Dimensions

General specifications				
Switching element function		NAMUR, NC		
Rated operating distance	s _n	15 mm		
Installation		non-flush		
Output polarity		NAMUR		
Assured operating distance	sa	0 12.15 mm		
Reduction factor r _{AI}		0.4		
Reduction factor r _{Cu}		0.3		
Reduction factor r ₃₀₄		0.85		
Nominal ratings				
Nominal voltage	Uo	8 V		
Switching frequency	f	0 100 Hz		
Hysteresis	Н	1 5 typ. 3 %		
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 PVC , 2 m		
Core cross-section		0.75 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		
		IEC 60947-5-2:2007		
Approvals and certificates				
UL approval		cULus Listed, General Purpose		
CSA approval		cCSAus Listed, General Purpose		

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

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 15-30GK...-N... ≤ 140 nF ; a cable length of 10 m is considered.

 \leq 100 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 $^\circ C$ the sensor should be protected from knocks by the provision of an additional housing.

