

NJ10-30GK-N-5M

Features

- 10 mm flush
- Usable up to SIL 2 acc. to IEC 61508

Accessories

BF 30

Mounting flange, 30 mm

Technical Data

General specifications Switching function Normally closed (NC) NAMUR

Output type Rated operating distance 10 mm Installation flush Assured operating distance 0 ... 8.1 mm 0.4 Reduction factor r_{Cu} 0.3 Reduction factor r₃₀₄ 0.85 2-wire

Output type **Nominal ratings**

8 V 0 ... 300 Hz Nominal voltage Switching frequency Current consumption ≥ 3 mA Measuring plate not detected

Measuring plate detected

Ambient conditions ≤ 1 mA

Ambient temperature -25 ... 100 °C (-13 ... 212 °F)

Mechanical specifications Connection type Core cross-section Housing material

PBT Sensing face PBT IP66 / IP68 Degree of protection Cable

Bending radius > 10 x cable diameter General information Use in the hazardous area see instruction manuals

2G; 1D Category

Compliance with standards and

directives

Standard conformity

EN 60947-5-6:2000 NAMUR IEC 60947-5-6:1999 Standards EN 60947-5-2:2007

EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

Approvals and certificates

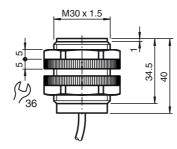
EAC conformity TR CU 012/2011 FM approval Control drawing 116-0165

UL approval cULus Listed, General Purpose cCSAus Listed, General Purpose CSA approval

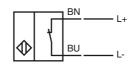
CCC approval CCC approval / marking not required for products rated ≤36 V

cable PVC , 5 m $0.75~\text{mm}^2$

Dimensions



Electrical Connection



Equipment protection level Gb	
CE marking	€0102
ATEX marking	(x) II 2G Ex ia IIC T6T1 Gb The Ex-related marking can also be printed on the enclosed label.
Standards	EN 60079-0:2012+A11:2013 EN 60079-11:2012 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions
Appropriate type	NJ 10-30GKN
Effective internal capacitance C _i	≤ 140 nF; a cable length of 10 m is considered.
Effective internal inductance L _i	\leq 100 μH ; a cable length of 10 m is considered.
Maximum permissible ambient temperature T _{amb}	Details of the correlation between the type of circuit connected, the maximum permissible ambient temperature, the temperature class, and the effective internal reactance values can be found on the EC-type examination certificate.
Equipment protection level Da	
CE marking	€0102
ATEX marking	(x) II 1D Ex ia IIIC T135°C Da The Ex-related marking can also be printed on the enclosed label.
Standards	EN 60079-0:2012+A11:2013 EN 60079-11:2012 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions
Appropriate type	NJ 10-30GKN
Effective internal capacitance C _i	≤ 140 nF; a cable length of 10 m is considered.
Effective internal inductance L _i	\leq 100 μH ; a cable length of 10 m is considered.
Maximum permissible ambient temperature T _{amb}	Details of the correlation between the type of circuit connected, the maximum permissible ambient temperature, the surface temperature, and the effective internal reactance values can be found on the EC-type-examination certificate. The maximum permissible ambient temperature of the data sheet must be noted, in addition, the lower of the two values must be maintained.