

Model Number

NJ5-11-N

Features

5 mm non-flush ٠

Accessories

BF 11	
Mounting flange, 11 mm	

Technical Data		
General specifications		NI
Switching function		No
Output type	•	N/
Rated operating distance	s _n	5
Assured operating distance	Sa	nc 0
Reduction factor r _{Al}	3 _a	0.
Reduction factor r _{Cu}		0.
Reduction factor r_{304}		0.
Output type		2-
Nominal ratings		
Nominal voltage	U _o	8.
Switching frequency	f	0
Hysteresis	Н	ty
Suitable for 2:1 technology		ye
Current consumption		
Measuring plate not detected		≥;
Measuring plate detected		\leq
Functional safety related parame	ters	
MTTFd		11
Mission Time (T _M)		20
Diagnostic Coverage (DC)		0
Ambient conditions		
Ambient temperature		-2
Mechanical specifications		
Connection type		са
Core cross-section		0.
Housing material		P١
Sensing face		P١
Degree of protection		IP
Cable		
Bending radius		>
General information		
Use in the hazardous area		se
Category		20
Compliance with standards and		
directives		
Standard conformity		
NAMUR		E١
		IE
Standards		El
Approvals and certificates		IE
FM approval		11
Control drawing		cL
UL approval CCC approval		C
		0

lormally closed (NC) IAMUR mm on-flush ... 4.05 mm .4 .3 .85 -wire .2 V (R_i approx. 1 kΩ) ... 3000 Hz yp. % es , Reverse polarity protection diode not required 3 mA 1 mA 1774 a 0 a % 25 ... 100 °C (-13 ... 212 °F) able PVC , 2 m .34 mm² VDF VDF P68 10 x cable diameter ee instruction manuals G N 60947-5-6:2000 EC 60947-5-6:1999 N 60947-5-2:2007 EC 60947-5-2:2007

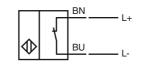
16-0165 CCC approval / marking not required for products rated ≤36 V



Dimensions



Electrical Connection



Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group

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Equipment protection level Gb	
CE marking	C €0102
ATEX marking	⟨ Il 2G Ex ia IIC T6…T1 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 5-11-N
Effective internal capacitance C _i	\leq 45 nF ; a cable length of 10 m is considered.
Effective internal inductance L _i	\leq 50 μH ; a cable length of 10 m is considered.
Maximum permissible ambient temperature $\mathrm{T}_{\mathrm{amb}}$	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 EU-type examination certificate.
Special conditions	
Equipment protection level Da	
CE marking	€€0102
CE marking ATEX marking	 € 0102 (☑) II 1D Ex ia IIIC T135°C Da The Ex-related marking can also be printed on the enclosed label.
č	 ₩ II D Ex ia IIIC T135°C Da
ATEX marking	 (☑) II 1D Ex ia IIIC T135°C Da The Ex-related marking can also be printed on the enclosed label. EN 60079-0:2012+A11:2013, EN 60079-11:2012 Ignition protection "Intrinsic safety"
ATEX marking Standards	 II 1D Ex ia IIIC T135°C Da The Ex-related marking can also be printed on the enclosed label. EN 60079-0:2012+A11:2013, EN 60079-11:2012 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions
ATEX marking Standards Appropriate type	 (☑) II 1D Ex ia IIIC T135°C Da The Ex-related marking can also be printed on the enclosed label. EN 60079-0:2012+A11:2013, EN 60079-11:2012 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions NJ 5-11-N ≤ 45 μF

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