

Model Number

NJ8-18GM-N

Features

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

Accessories

BF 18

Mounting flange, 18 mm

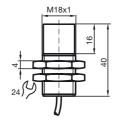
Technical Data
General specifications
Switching function
Output type
Rated operating distance
Installation
Assured operating distance
Reduction factor r _{Al}
Reduction factor r _{Cu}
Reduction factor r ₃₀₄ Output type
Nominal ratings
· · · J·
Nominal voltage
Operating voltage Switching frequency
Hysteresis
Current consumption
Measuring plate not detected
Measuring plate detected
Ambient conditions
Ambient temperature
Mechanical specifications
-
Connection type Core cross-section
Housing material
Sensing face
Degree of protection
Cable
Bending radius
General information
Use in the hazardous area
Category
Compliance with standards and
directives
Standard conformity
NAMUR
Standards

Approvals and certificates

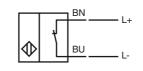
EAC conformity
FM approval
Control drawing
UL approval
CSA approval
CCC approval

Dimensions

		Normally closed (NC)
		NAMUR
	s _n	8 mm
		non-flush
	sa	0 6.48 mm
		0.4
		0.3
		0.85
		2-wire
	Uo	8.2 V (R _i approx. 1 kΩ)
	UB	525 V
	f	0 200 Hz
	Н	3 %
d		≥ 3 mA at nominal voltage
		≤1 mA at nominal voltage
		5
		-25 100 °C (-13 212 °F)
		-25 100 0 (-15 212 1)
		cable PVC , 2 m 0.75 mm ²
		Stainless steel 1.4305 / AISI 303
		PBT
		IP67
		10 second la d'aussian
		> 10 x cable diameter
		see instruction manuals
		1G; 2G; 1D
ind		
		EN 60947-5-6:2000 IEC 60947-5-6:1999
		EN 60947-5-2:2007 EN 60947-5-2:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
		TR CU 012/2011
		116-0165
		cI II us Listed. General Purnose



Electrical Connection



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

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cULus Listed, General Purpose CCSAus Listed, General Purpose CCC approval / marking not required for products rated ≤36 V

EPPPERL+FUCHS 1

Equipment protection level Ga						
CE marking		C €0102				
ATEX marking		(x) II 1G Ex ia IIC T6T1 Ga 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 8-18GM-N				
Effective internal capacitance	Ci	\leq 70 nF ; a cable length of 10 m is considered.				
Effective internal inductance	Li	\leq 50 μH ; a cable length of 10 m is considered.				
Ambient temperature		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. <u>Note:</u> Use the temperature table for category 1 !!! The 20 % reduction in accordance with EN 1127-1 has already been applied to the temperature table for category 1.				
Equipment protection level Gb						
CE marking		€€0102				
ATEX marking		(x) II 1G Ex ia IIC T6T1 Ga 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 8-18GM-N				
Effective internal capacitance	Ci	\leq 70 nF ; a cable length of 10 m is considered.				
Effective internal inductance	Li	\leq 50 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		C€ 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 8-18GM-N				
Effective internal capacitance	Ci	\leq 70 nF ; a cable length of 10 m is considered.				
Effective internal inductance	Li	\leq 50 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.				

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