

Model Number

NJ1,5-18GM-N-D

Features

- 1.5 mm flush ٠
- Compression proof up to 350 bar, dynamic on active surface •
- Usable up to SIL 2 acc. to IEC 61508

Application

Note

Please refer to the technical information about this product at www.pepperlfuchs.com. This information describes the necessary geometry of the installation space!

Те	chnical Data		
Gen	eral specifications		
	vitching function		Normally closed (NC)
	utput type		NAMUR
	ated operating distance	s _n	1.5 mm
	stallation		flush
	sured operating distance	sa	0 1.22 mm
	eduction factor r _{Al}		0
	eduction factor r _{Cu}		0
	eduction factor r ₃₀₄		0.55
	utput type		2-wire
	ninal ratings		
	ominal voltage	Uo	8.2 V (R _i approx. 1 kΩ)
	vitching frequency	f	0 400 Hz
	vsteresis	Н	typ. %
	urrent consumption		
	Measuring plate not detected		≥3 mA
	Measuring plate detected		≤1 mA
Lim	it data		
Op	perating pressure		350 bar (5076.4 psi)
Fun	ctional safety related parameter	ers	
M	TTFd		10880 a
	ssion Time (T _M)		20 a
Di	agnostic Coverage (DC)		0 %
Amb	pient conditions		
Ar	nbient temperature		-25 85 °C (-13 185
Mec	hanical specifications		
Co	onnection type		cable PVC , 2 m
Co	ore cross-section		0.34 mm ²
Ho	ousing material		Stainless steel 1.4305 /
Se	ensing face		Ceramic
De	egree of protection		IP66 / IP68
Ca	able		
1	Bending radius		> 10 x cable diameter
Gen	eral information		
Us	se in the hazardous area		see instruction manuals
(Category		2G; 1D
	npliance with standards and ctives		
	andard conformity		
	NAMUR		EN 60947-5-6:2000
			IEC 60947-5-6:1999
	Standards		EN 60947-5-2:2007
			EN 60947-5-2/A1:2012
			IEC 60947-5-2:2007

Approvals and certificates EAC conformity

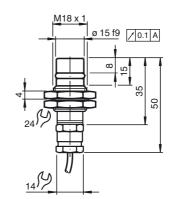
- UL approval
- CSA approval

mA mΑ 0 bar (5076.4 psi) 880 a а ... 85 °C (-13 ... 185 °F) ole PVC , 2 m 4 mm² inless steel 1.4305 / AISI 303 ramic 6 / IP68 0 x cable diameter instruction manuals ; 1D

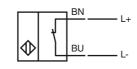
60947-5-6:2000 C 60947-5-6:1999 60947-5-2:2007 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

TR CU 012/2011 cULus Listed, General Purpose cCSAus Listed, General Purpose

Dimensions



Electrical Connection



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

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Equipment protection level Gb					
CE marking		C€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		NJ1,5-18GM-N-D			
Effective internal inductivity	Ci	\leq 50 nF ; a cable length of 10 m is considered.			
Effective internal inductance	Li	\leq 60 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		NJ1,5-18GM-N-D			
Effective internal inductivity	Ci	\leq 50 nF ; a cable length of 10 m is considered.			
Effective internal inductance	Li	\leq 60 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.			