

Features

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

Accessories

- BF 8
- Mounting flange, 8 mm

Technical Data		
General specifications		
Switching function		No
Output type		N/
Rated operating distance	s _n	1.
Installation		flu
Assured operating distance	sa	0
Actual operating distance	sr	1.
Reduction factor r _{Al} Reduction factor r _{Cu}		0.
Reduction factor r ₃₀₄		0.
Output type		2-
Nominal ratings		2-
•		
Nominal voltage	U _o	8.
Switching frequency	f	0
Hysteresis	Н	1.
Suitable for 2:1 technology		ye
Current consumption		~
Measuring plate not detected		≥;
Measuring plate detected		≤ 1
Ambient conditions		
Ambient temperature		-2
Mechanical specifications		
Connection type		ca
Core cross-section		0.
Housing material		St
Sensing face		PE
Degree of protection		IP
Cable		
Bending radius		>
General information		
Use in the hazardous area		se
Category		10
Compliance with standards and directives		
Standard conformity		
NAMUR		Eľ IE
Standards		13 13 IE

Approvals and certificates

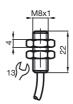
- EAC conformity UL approval CSA approval CCC approval

Dimensions

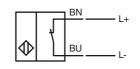
lormally closed (NC)

NJ1,5-8GM-N-5M

	Normally closed (NC) NAMUR
s _n	1.5 mm
	flush
s _a s _r	0 1.215 mm 1.35 1.65 mm typ.
- 1	0.4
	0.3
	0.85 2-wire
Uo	8.2 V (R _i approx. 1 kΩ)
f H	0 5000 Hz 1 10 typ. 5 %
п	yes, Reverse polarity protection diode not required
	≥3 mA
	≤1 mA
	-25 100 °C (-13 212 °F)
	cable PVC , 5 m
	0.14 mm ² Stainless steel 1.4305 / AISI 303
	PBT
	IP66 / IP67
	> 10 x cable diameter
	see instruction manuals
	1G; 2G
	EN 60947-5-6:2000
	IEC 60947-5-6:1999 EN 60947-5-2:2007
	EN 60947-5-2.2007 EN 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
	CCC approval / marking not required for products rated \leq 36 V



Electrical Connection



Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0001

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Equipment protection level Ga		
CE marking		C €0102
ATEX marking		(☑) 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		NJ1,5-8GM-N
Effective internal capacitance	Ci	\leq 30 nF ; a cable length of 10 m is considered.
Effective internal inductance	Lj	\leq 50 μH ; a cable length of 10 m is considered.
Highest permissible ambient tem	perature	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. Note: 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.
Special conditions		
Equipment protection level Gb		
CE marking		C €0102
ATEX marking		(☑) 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		NJ1,5-8GM-N
Effective internal capacitance	Ci	\leq 30 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 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 EU-type examination certificate.
Special conditions		
Equipment protection level Da		
CE marking		C € 0102
ATEX marking		$\overline{}$ 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		NJ1,5-8GM-N
Effective internal capacitance	C _i	\leq 30 μF A cable length of 10 m is considered.
Effective internal inductance	Li	\leq 50 μH A cable length of 10 m is considered.
Special conditions		

Special conditions

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