

Features

Comfort series

Technical Data General specifications Switching function Output type Rated operating distance Installation Assured operating distance Reduction factor r_{AI} Reduction factor r_{Cu} Reduction factor r₃₀₄ Output type Nominal ratings Nominal voltage Switching frequency Hysteresis Current consumption Measuring plate not detected Measuring plate detected Functional safety related para MTTF_d Mission Time (T_M) Diagnostic Coverage (DC) 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 an directives Standard conformity NAMUR Standards Approvals and certificates UL approval CSA approval CCC approval

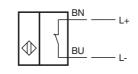
Dimensions

NJ4-12GM-N-5M-Y123257

Normally closed (NC) NAMUR s _n 4 mm non-flush s _a 03.24 mm 0.4 0.3 0.85 2-wire U _o 8.2 V (R _i approx. 1 kΩ) f 01500 Hz H 3% d ≥ 3 mA ≤ 1 mA ameters 11774 a 20 a 0% -25 100 °C (-13 212 °F) cable PUR, 5 m (halogen-free) 0.34 mm ² Stainless steel 1.4305 / AISI 303 PBT IP67 > 10 x cable diameter see instruction manuals 2G nd EN 60947-5-6:2000 IEC 60947-5-2:2007 IEC 60947-5-2:2007 IEC 60947-5-2:2007 IEC 60947-5-2:2007			
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CCC approval / marking not required for products rated ≤36 V			
			CCC approval / marking not required for products rated \leq 36 V

M12 x 1 M12 x 1 min gr

Electrical Connection



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

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 G

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Equipment protection level Gb	
CE marking	C€0102
ATEX marking	 ↔ 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 4-12GM-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 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	
-4-ib	
CE marking	€€ 0102
	€ € 0102
CE marking	€ II 1D Ex ia IIIC T135°C Da
CE marking 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"
CE marking 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
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