







Model Number

NJ6-F-N-5M

Features

- Comfort series
- 6 mm flush

Application

Attention!

NAMUR-compliant switch amplifiers can, due to a low current consumption at the recorded measuring plate (0.2 mA ... 1 mA), incorrectly report cable breaks (required in accordance with EN 60947-5-6:2000: 0.4 mA ... 1 mA).

Output type
Nominal ratings

2-wire

Current consumption

Measuring plate not detected $\geq 3 \text{ mA}$ Measuring plate detected $\leq 1 \text{ mA}$

Functional safety related parameters

 $\begin{array}{cc} \text{MTTF}_{d} & 4540 \text{ a} \\ \text{Mission Time } (\text{T}_{M}) & 20 \text{ a} \\ \text{Diagnostic Coverage (DC)} & 0 \% \\ \\ \textbf{Ambient conditions} \end{array}$

Mechanical specifications

Connection type cable PUR, 5 m
Core cross-section 0.34 mm²
Housing material PBT
Sensing face PBT
Degree of protection IP67

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Cable
Bending radius > 10 x cable diameter

Bending radius > 10 x c Mass 165 g

General information
Use in the hazardous area see instruction manuals

Category 2G

Compliance with standards and directives

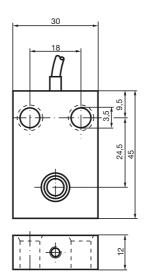
Standard conformity

Approvals and certificates

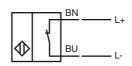
UL approval CULus Listed, General Purpose

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

Dimensions



Electrical Connection



Equipment protection level Gb	
CE marking	€0102
ATEX marking	
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	NJ6-F-N
Effective internal capacitance C _i	≤ 70 nF; a cable length of 10 m is considered.
Effective internal inductance L _i	\leq 100 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	
Equipment protection level Da CE marking	C € 0102
	€ 0102 II 1D Ex ia IIIC T135°C Da The Ex-related marking can also be printed on the enclosed label.
CE marking	
CE marking ATEX marking	(E) 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	(E) 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
CE marking ATEX marking Standards Appropriate type	(E) 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 NJ6-F-N ≤ 70 μF