Dimensions



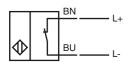
Model Number

NJ10-F-N

Features

- Comfort series
- 10 mm non-flush

Connection



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Technical Data General specifications		
		NAMUR, NC
Switching element function Rated operating distance	•	10 mm
Installation	s _n	non-flush
Output polarity		NAMUR
Assured operating distance	Sa	0 8.1 mm
Reduction factor $r_{\Delta I}$	Ja	0.4
Reduction factor r _{Cu}		0.3
Reduction factor r ₃₀₄		0.7
Nominal ratings		
Nominal voltage	Uo	8.2 V (R_i approx. 1 k Ω)
Switching frequency	f	0 3000 Hz
Hysteresis	Ĥ	0 0.3 typ. 0.1 %
Reverse polarity protection		reverse polarity protected
Current consumption		
Measuring plate not detected		≥ 3 mA
Measuring plate detected		< 1 mA
Functional safety related paramet	ters	
MTTF _d		4540 a
Mission Time (T _M)		4340 a 20 a
Diagnostic Coverage (DC)		0%
Ambient conditions		
Ambient temperature		-25 100 °C (-13 212 °F)
Mechanical specifications		-25 100 C (-15 212 F)
-		askis BUB . 0.m
Connection type		cable PUR , 2 m 0.34 mm ²
Core cross-section		0.34 mm ⁻ PBT
Housing material Sensing face		PBT
Protection degree		IP67
General information		IF07
Use in the hazardous area		see instruction manuals 2G
Category		
Compliance with standards and d	lirective	9S
Standard conformity		
NAMUR		EN 60947-5-6:2000 IEC 60947-5-6:1999
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates		
FM approval		
Control drawing		116-0165F
5		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		Products with a maximum operating voltage of \leq 36 V do not bear a CCC marking because they do not require approval.

ATEX 2G

Instruction

Device category 2G Directive conformity Standard conformity

CE marking

Ex-identification

EC-Type Examination Certificate Appropriate type Effective internal capacitance C_i Effective internal inductance L_i General

Highest permissible ambient temperature

Installation, Comissioning

Maintenance

Specific conditions

Manual electrical apparatus for hazardous areas

for use in hazardous areas with gas, vapour and mist 94/9/EG EN 60079-0:2009, EN 60079-11:2007 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions $C \in 0102$

(Ex) II 2G Ex ia IIC T6 Gb

PTB 00 ATEX 2032 X NJ 10-F-N... \leq 85 nF ; a cable length of 10 m is considered.

 \leq 100 μH ; a cable length of 10 m is considered.

The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The EC-Type Examination Certificate has to be observed. The special conditions must be adhered to!

The temperature ranges, according to temperature class, are given in the EC-Type Examination Certificate.

Laws and/or regulations and standards governing the use or intended usage goal must be observed. The intrinsic safety is only assured in connection with an appropriate related apparatus and according to the proof of intrinsic safety.

No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.