









Model Number

NJ25-50-N

Features

25 mm non-flush

Output type
Nominal ratings

Nominal voltage U_o 8.2 V (R_i approx. 1 k Ω) Switching frequency f 0 ... 250 Hz

Current consumption

Measuring plate not detected ≥ 3 mA

Measuring plate detected ≤ 1 mA

Measuring plate not detected

Measuring plate detected

Functional safety related parameters

 $\begin{array}{cc} \text{MTTF}_{d} & \text{10360 a} \\ \text{Mission Time (T}_{M}) & \text{20 a} \\ \text{Diagnostic Coverage (DC)} & \text{0 } \% \end{array}$

Ambient conditions

Ambient temperature -25 ... 100 °C (-13 ... 212 °F)

Mechanical specifications

Connection type cable PVC , 2 m
Core cross-section 0.75 mm²
Housing material PBT
Sensing face PBT
Degree of protection IP67

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Cable
Bending radius > 10 x cable diameter

Mass General information

Use in the hazardous area see instruction manuals

Category 2G

Compliance with standards and

directives

 Standard conformity

 NAMUR
 EN 60947-5-6:2000

 IEC 60947-5-6:1999
 EN 60947-5-2:2007

 IEC 60947-5-2:2007
 IEC 60947-5-2:2007

Approvals and certificates

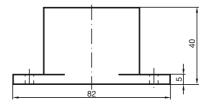
FM approval Control drawing 116-0165

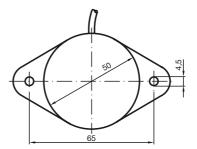
UL approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose

CCC approval CCC approval / marking not required for products rated ≤36 V

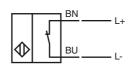
250 g

Dimensions





Electrical Connection



Equipment protection level Gb		
CE marking		€0102
ATEX marking		⟨xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
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 25-50-N
Effective internal capacitance	C _i	≤ 150 nF; a cable length of 10 m is considered.
Effective internal inductance	L _i	\leq 140 μH ; a cable length of 10 m is considered.
$\label{eq:maximum permissible ambient temperature T} \mathbf{T}_{\mathrm{amb}}$		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		(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
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Special conditions		