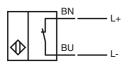
Model Number

NJ25-50-N

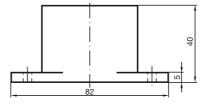
Features

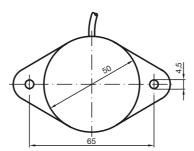
- · Comfort series
- 25 mm not embeddable

Connection



Dimensions





Technical Data

General specifications		
Switching element function		NAMUR, NC
Rated operating distance	s _n	25 mm
Installation		not embeddable
Output polarity		NAMUR
Assured operating distance	sa	0 20.25 mm
Reduction factor r _{Al}		0.4
Reduction factor r _{Cu}		0.3

	0.3
	0.85
Uo	8.2 V (R _i approx. 1 kΩ)
f	0 250 Hz
	U _o

Current consumption	
Measuring plate not detected ≥ 3 mA	
Measuring plate detected ≤ 1 mA	

Ambient conditions	
Ambient temperature	-25 100 °C (-13 212 °F)
Mechanical specifications	

Connection type	cable PVC , 2 r
Core cross-section	0.75 mm ²
Housing material	PBT
Sensing face	PBT
Protection degree	IP67

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
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

FM approval	
Control drawing	116-0165F
UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

www.pepperl-fuchs.com

ATEX 2G

Instruction

Device category 2G

Directive conformity Standard conformity

CE symbol

General

Ex-identification

EC-Type Examination Certificate Appropriate type Effective internal capacitance Ci Effective internal inductance L

Highest permissible ambient temperature

Installation, Comissioning

Maintenance

Special conditions

Protection from mechanical danger

Manual electrical apparatus for hazardous areas

for use in hazardous areas with gas, vapour and mist 94/9/EG

EN 60079-0:2006, EN 60079-11:2007 Ignition protection "Intrinsic safety"
Use is restricted to the following stated conditions **C**€0102

⟨Ex⟩ II 2G Ex ia IIC T6

PTB 00 ATEX 2048 X

NJ 25-50-N...

≤ 150 nF; a cable length of 10 m is considered.

 \leq 140 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!

Directive 94/9/EG and hence also EC-Type Examination Certificates apply in general only to the use of electrical apparatus under atmospheric conditions

The use in ambient temperatures of > 60 °C was tested with regard to hot surfaces by the mentioned certification authority.

If the equipment is not used under atmospheric conditions, a reduction of the permissible minimum ignition energies may have to be taken into consideration.

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.

When used in the temperature range below -20 °C the sensor should be protected from knocks by the provision of an additional housing.

www.pepperl-fuchs.com