

(E 0102

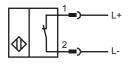
### **Model Number**

NJ1,5-8GM-N-V1

# **Features**

- · Comfort series
- 1.5 mm embeddable
- Usable up to SIL2 acc. to IEC 61508

# Connection



Wire colors in accordance with EN 60947-5-2

1 | BN 2 | BU

# **Accessories**

V1-G

Non pre-wired cable socket

V1-W

Non pre-wired cable socket

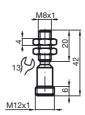
V1-G-N-2M-PUR
Cable connector, NAMUR

V1-W-N-2M-PUR
Cable connector, NAMUR

BF 8

Mounting flange

#### **Dimensions**



NAMUR NC

# **Technical Data**

Gene	ral s	pecific	ation	s
Swi	tchin	g elem	ent fu	ncti

Nominal ratings

Nominal voltage U<sub>o</sub> 8 V
Switching frequency f 0 ... 5000 Hz
Hysteresis H 1 ... 10 typ. 5 %
Current consumption

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

Ambient conditions

Ambient temperature -25 ... 100 °C (248 ... 373 K)

Mechanical specifications

Connection type connector M12 x 1, 4-pin Housing material Stainless steel

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

Standards EN 60947-5-2:2007

IEC 60947-5-2:2007 EN 60947-5-6:2000 IEC 60947-5-6:1999

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

Electrostatic charging

#### 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 1,5-8GM-N...

≤ 30 nF; a cable length of 10 m is considered.

 $\leq 50~\mu H$  ; 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 94/9EG 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  $^{\circ}\text{C}$  the sensor should be protected from knocks by the provision of an additional housing.

Electrostatic charges on the metal housing components must be avoided. Dangerous electrostatic charges on the metal housing components can be avoided by incorporating these components in the equipotential bonding.