







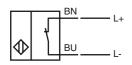
Model Number

SJ3,5-N WEISS

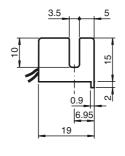
Features

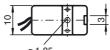
- **Comfort series**
- 3.5 mm slot width
- Usable up to SIL2 acc. to IEC 61508

Connection



Dimensions





Technical Data

| General specifications | |
|------------------------------|---------------|
| Switching element function | NAMUR, NC |
| Slot width | 3.5 mm |
| Depth of immersion (lateral) | 5 7 typ. 6 mm |
| Installation | |
| Output polarity | NAMUR |

Output polarity Nominal ratings

| ed |
|----|
| |

Current consumption \geq 3 mA Measuring plate not detected

≤ 1 mA Measuring plate detected **Ambient conditions**

Ambient temperature

-25 ... 100 °C (-13 ... 212 °F) Mechanical specifications flexible leads LIY, 500 mm

Connection type Core cross-section Housing material Protection degree 0.14 mm² PBT/PPS

General information

Use in the hazardous area see instruction manuals Category 1G; 2G; 1D

Compliance with standards and directives

Standard conformity

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

Approvals and certificates

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

Products with a maximum operating voltage of ≤36 V do not bear a CCC approval CCC marking because they do not require approval.

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ATEX 1G

Instruction

Device category 1G

Directive conformity Standard conformity

CE symbol

Ex-identification

EC-Type Examination Certificate

Appropriate type

Effective internal capacitance Ci

Effective internal inductance L

Cable length

Explosion group IIC

General

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, EN 60079-26:2007 Ignition protection "Intrinsic safety'

Use is restricted to the following stated conditions

€0102

⟨ы⟩ II 1G Ex ia IIC T6 PTB 99 ATEX 2219 X

SJ3,5-...-N...

≤ 50 nF; a cable length of 10 m is considered.

 $\leq 250~\mu H$; a cable length of 10 m is considered.

Dangerous electrostatic charges on the fixed connection cable must be taken into account for lengths equal to and exceeding the following values:

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. Note: Use the temperature table for category 1 !!! The 20 % reduction in accordance with EN 1127-1:2007 has already been accounted for in the temperature table for category 1.

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.

The associated apparatus must satisfy the requirements of category ia.

Due to the possible danger of ignition, which can arise due to faults and/or transient currents in the equipotential bonding system, galvanic isolation of the power supply and signal circuit is preferable. Associated apparatus without electrical isolation must only be used if the appropriate requirements of IEC 60079-14 are met.

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.

ATEX 2G

Instruction

Device category 2G

Directive conformity Standard conformity

CE symbol

Ex-identification

EC-Type Examination Certificate

Appropriate type

Effective internal capacitance Ci

Effective internal inductance Li

General

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

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

⟨Ex⟩ II 1G Ex ia IIC T6

PTB 99 ATEX 2219 X

SJ3,5-...-N...

≤ 50 nF; a cable length of 10 m is considered.

 \leq 250 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.

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.

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ATEX 1D

Instruction

Device category 1D

Directive conformity Standard conformity

CE symbol

Ex-identification

EC-Type Examination Certificate

Appropriate type

Effective internal capacitance Ci

Effective internal inductance Li

General

Maximum housing surface temperature

Installation, Comissioning

Maintenance

Special conditions

Electrostatic charging

Manual electrical apparatus for hazardous areas

for use in hazardous areas with combustible dust 94/9/EG

IEC 61241-11:2002: draft; prEN61241-0:2002 type of protection intrinsic safety "iD" Use is restricted to the following stated conditions

C€0102

(Ex) II 1D Ex iaD 20 T 108 °C (226.4 °F)

ZELM 03 ATEX 0128 X

SJ3.5-...-N...

 \leq 50 nF ; a cable length of 10 m is considered.

 \leq 250 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 maximum surface temperature of the housing is 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.

The associated apparatus must satisfy at least the requirements of category ia IIB or iaD. Because of the possibility of the danger of ignition, which can arise due to faults and/or transient currents in the equipotential bonding system, galvanic isolation in the power supply and signal circuits is preferable. Associated apparatus without electrical isolation must only be used if the appropriate requirements of IEC 60079-14 are met.

The intrinsically safe circuit has to be protected against influences due to lightning. When used in the isolating wall between Zone 20 and Zone 21 or Zone 21 und Zone 22 the sensor must not be exposed to any mechanical danger and must be sealed in such a way, that the protective function of the isolating wall is not impaired. The applicable directives and standards must be observed.

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

The connection cables are to be laid in accordance with EN 50281-1-2 and must not normally be subjected to chaffing during use.