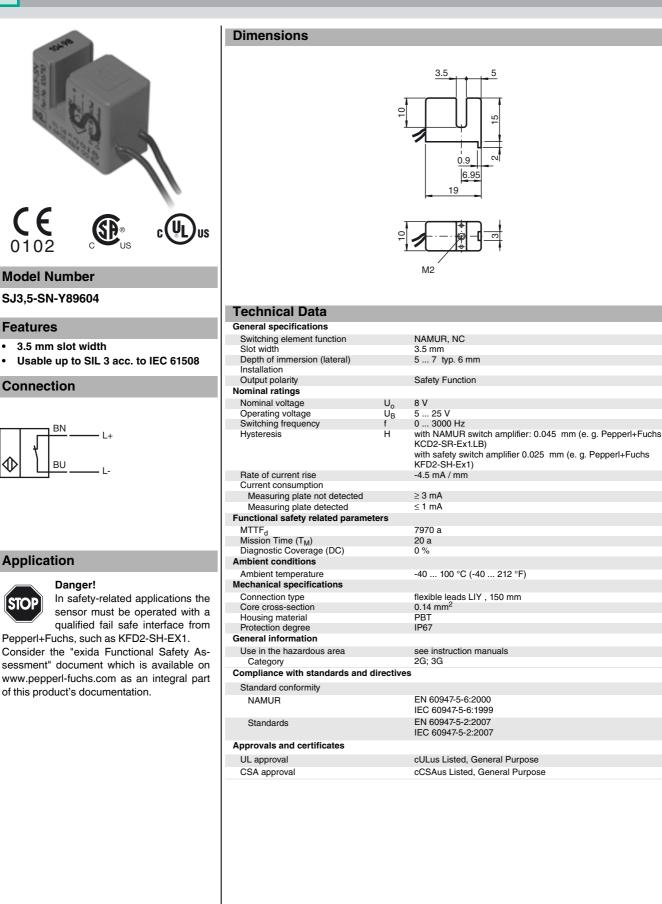
Inductive slot sensor



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Subject to modifications without notice Pepperl+Fuchs Group

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1

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

Protection from mechanical danger

Manual electrical apparatus for hazardous areas

for use in hazardous areas with gas, vapour and mist 94/9/EG EN 60079-0:2009, 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 2049 X SJ3.5-SN...

 \leq 30 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!

SJ3,5-SN-Y89604

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 $^\circ C$ the sensor should be protected from knocks by the provision of an additional housing.

Subject to modifications without notice



ATEX 3G (nL)

Note

Instruction

Device category 3G (nL) Directive conformity Standard conformity

CE marking

Ex-identification Effective internal capacitance Ci

Effective internal inductance Li

General

Installation, Comissioning

Maintenance

Specific conditions

Maximum permissible ambient temperature T_{Umax} at Ui = 20 V for Pi=34 mW, li=25 mA, T6 for Pi=34 mW, li=25 mA, T5 for Pi=34 mW, li=25 mA, T4-T1 for Pi=64 mW li=25 mA T6 for Pi=64 mW, li=25 mA, T5 for Pi=64 mW, li=25 mA, T4-T1 for Pi=169 mW, li=52 mA, T6 for Pi=169 mW, Ii=52 mA, T5 for Pi=169 mW. li=52 mA. T4-T1 for Pi=242 mW. li=76 mA. T6 for Pi=242 mW, li=76 mA, T5 for Pi=242 mW, li=76 mA, T4-T1 Protection from mechanical danger

Connection parts

This instruction is only valid for products according to EN 60079-15:2003, valid until 31-May-2008

Manual electrical apparatus for hazardous areas

for use in hazardous areas with gas, vapour and mist 94/9/EG EN 60079-15:2003 Ignition protection category "n" Use is restricted to the following stated conditions **C€**0102

🐼 II 3G EEx nL IIC T6 X \leq 30 nF ; A cable length of 10 m is considered.

 \leq 100 μ 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 data stated in the data sheet are restricted by this operating instruction! The special conditions must be observed!

Laws and/or regulations and standards governing the use or intended usage goal must be observed. The sensor must only be operated with energy-limited circuits, which satisfy the requirements of IEC 60079-15. The explosion group depends on the connected and energy-limited supply circuit.

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

70 °C (158 °F)
85 °C (185 °F)
100 °C (212 °F)
66 °C (150.8 °F)
81 °C (177.8 °F)
100 °C (212 °F)
45 °C (113 °F)
60 °C (140 °F)
89 °C (192.2 °F)
30 °C (86 °F)
45 °C (113 °F)
74 °C (165.2 °F)
The sensor must not be mechanically damaged. When used in the temperature range below -20 °C the sensor should be protected

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

The connection parts are to be installed, such that a minimum protection class of IP20 is achieved, in accordance with IEC 60529.

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ATEX 3G (ic) Instruction

Instruction

Device category 3G (ic) Directive conformity Standard conformity

CE marking

Ex-identification Effective internal capacitance C_i

Effective internal inductance Li

General

Installation, Comissioning

Maintenance

Specific conditions

Maximum permissible ambient temperature T_{Umax} at Ui = 20 V for Pi=34 mW, Ii=25 mA, T6 for Pi=34 mW, Ii=25 mA, T5 for Pi=34 mW, Ii=25 mA, T4-T1 for Pi=64 mW, Ii=25 mA, T6 for Pi=64 mW, Ii=25 mA, T5 for Pi=64 mW, Ii=25 mA, T4-T1 for Pi=169 mW, Ii=52 mA, T6 for Pi=169 mW, Ii=52 mA, T6 for Pi=169 mW, Ii=52 mA, T6 for Pi=242 mW, Ii=76 mA, T6 for Pi=242 mW, Ii=76 mA, T5 for Pi=242 mW, Ii=76 mA, T5 for Pi=242 mW, Ii=76 mA, T4-T1 Protection from mechanical danger

Connection parts

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 category "ic" Use is restricted to the following stated conditions ${\bf C}~{\bf 6}$ 0102

 \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 data stated in the data sheet are restricted by this operating instruction! The special conditions must be observed!

Laws and/or regulations and standards governing the use or intended usage goal must be observed. The sensor must only be operated with energy-limited circuits, which satisfy the requirements of IEC 60079-11. The explosion group depends on the connected and energy-limited supply circuit.

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

70 °C (158 °F) 85 °C (185 °F) 100 °C (212 °F) 66 °C (150.8 °F) 81 °C (177.8 °F) 100 °C (212 °F) 45 °C (113 °F) 60 °C (140 °F) 89 °C (192.2 °F) 30 °C (86 °F) 45 °C (113 °F) 74 °C (165.2 °F)

The sensor must not be mechanically damaged. When used in the temperature range below -20 $^\circ C$ the sensor should be protected from knocks by the provision of an additional housing.

The connection parts are to be installed, such that a minimum protection class of IP20 is achieved, in accordance with IEC 60529.

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