

Model Number

SJ3,5-N-Y046116

Features

- Comfort series

Technical Data

General specifications

| | |
|------------------------------|----------------------|
| Switching function | Normally closed (NC) |
| Output type | NAMUR |
| Slot width | 3.5 mm |
| Depth of immersion (lateral) | 5 ... 7 typ. 6 mm |
| Installation | |
| Output type | 2-wire |

Nominal ratings

| | | |
|---------------------|-------|-----------------|
| Nominal voltage | U_o | 8 V |
| Operating voltage | U_B | 5 ... 25 V |
| Switching frequency | f | 0 ... 3000 Hz |
| Hysteresis | H | 0.41 ... 0.6 mm |

Current consumption

| | |
|------------------------------|--------------------------------|
| Measuring plate not detected | ≥ 3 mA at nominal voltage |
| Measuring plate detected | ≤ 1 mA at nominal voltage |

Ambient conditions

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

Mechanical specifications

| | |
|----------------------|----------------------------|
| Connection type | flexible leads LiY, 500 mm |
| Core cross-section | 0.14 mm ² |
| Housing material | PBT/PPS |
| Degree of protection | IP67 |

General information

| | |
|---------------------------|-------------------------|
| Use in the hazardous area | see instruction manuals |
| Category | 2G |

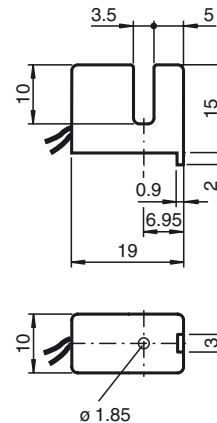
Compliance with standards and directives

| | |
|---------------------|---|
| Standard conformity | |
| NAMUR | EN 60947-5-6:2000 IEC 60947-5-6:1999 |
| Standards | EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012 |

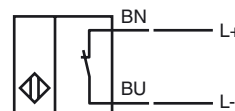
Approvals and certificates

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


Dimensions




Electrical Connection



Equipment protection level Gb

| | | |
|---|--|--|
| CE marking | CE 0102 | |
| ATEX marking |  II 2G Ex ia IIC T6...T1 Gb 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 | |
| Appropriate type | SJ3,5-...-N... | |
| Effective internal capacitance | C_i | $\leq 50 \text{ nF}$; a cable length of 10 m is considered. |
| Effective internal inductance | L_i | $\leq 250 \text{ }\mu\text{H}$; a cable length of 10 m is considered. |
| Maximum permissible ambient temperature T_{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 | CE 0102 | |
| ATEX marking |  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 | |
| Appropriate type | SJ3,5-...-N... | |
| Effective internal capacitance | C_i | $\leq 50 \text{ }\mu\text{F}$ A cable length of 10 m is considered. |
| Effective internal inductance | L_i | $\leq 250 \text{ }\mu\text{H}$ A cable length of 10 m is considered. |

Special conditions