

# Limit switch box SRBE-CA3-YR90-N-1-ZU-C2N12-C1

Part number: 3998922

FESTO



 General operating condition

## Data sheet

| Feature   | Value  |
|---|--|
| Design  | Square   |
| Based on norm                                     | EN 60947-5-2<br>ISO 5211<br>VDI/VDE 3845   |
| Certification                                     | RCM compliance mark  |
| CE marking (see declaration of conformity)        | As per EU EMC directive<br>As per EU RoHS directive  |
| UKCA marking (see declaration of conformity)      | To UK RoHS instructions  |
| Explosion prevention and protection               | Class I, Div. 1 (CA)<br>Class I, Div. 1 (US)<br>Class I, Div. 2 (CA)<br>Class I, Div. 2 (US)<br>Class II, Div. 1 (CA)<br>Class II, Div. 1 (US)<br>Zone 1 (CA)<br>Zone 1 (US)<br>Zone 2 (CA)<br>Zone 2 (US)<br>Zone 21 (CA)<br>Zone 21 (US)                                   |
| Type of ignition protection for gas               | Ex nA IIC T5 Gc  |
| Type of (ignition) protection for dust            | Ex tb IIIC T108°C Db   |
| Explosion protection certification outside the EU | Class I, Div. 1 (CA)<br>Class I, Div. 1 (US)<br>Class I, Div. 2 (CA)<br>Class I, Div. 2 (US)<br>Class II, Div. 1 (CA)<br>Class II, Div. 1 (US)<br>Class III (CA)<br>Class III (US)<br>EPL Db (CA)<br>EPL Db (US)<br>EPL Gb (CA)<br>EPL Gb (US)<br>EPL Gc (CA)<br>EPL Gc (US) |
| Certificate issuing authority                     | CSA 263311<br>Eurocert. SIL202587141   |
| Note on materials                                 | RoHS compliant   |
| Safety integrity level (SIL)                      | SIL 3  |
| Measuring principle                               | Inductive  |
| Ambient temperature                               | -20 °C ... 60 °C   |
| Switching output                                  | Non-contacting, 2-wire   |
| Switching element function                        | N.O. contact   |

| Feature  | Value  |
|--|--|
| Max. output current DC   | 4 mA ... 100 mA  |
| Voltage drop   | ≤5 V   |
| Minimum load current   | 4 mA   |
| Residual current   | 0 mA ... 1 mA  |
| DC operating voltage range   | 5 V ... 60 V   |
| Reverse polarity protection  | for all electrical connections   |
| Microswitch type   | P&F NBB3-V3-Z4   |
| Electrical connection  | Screw terminal   |
| Closable nominal conductor cross-section                                 | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>   |
| Cable fitting  | 1/2 NPT  |
| Type of mounting   | on flange according to ISO 5211<br>With mounting bracket                             |
| Connection point for positioner and position sensor conforms to standard | VDI/VDE 3845 Size AA 1   |
| Mounting position  | Any  |
| Product weight   | 1700 g   |
| Housing colour   | Silver   |
| Housing material   | Die cast aluminum, painted   |
| Seals material   | NBR  |
| Shaft material   | high-alloy stainless steel   |
| Material of screws   | high-alloy stainless steel   |
| Material of mounting bracket   | high-alloy stainless steel   |
| Pointer material   | PC   |
| Circlip material   | high-alloy stainless steel   |
| Disc material  | high-alloy stainless steel   |
| Position indicator   | Yellow/red   |
| Angle detection setting range  | 0 deg ... 90 deg   |
| Storage temperature  | -20 °C ... 60 °C   |
| Degree of protection   | IP67<br>NEMA 4/4X  |
| Shock resistance   | Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27                |
| Vibration resistance   | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| LABS (PWIS) conformity   | VDMA24364 Zone III   |
| Contamination level  | 3  |