

# Sensorbox SRBE-CA3-YR90-MW-22A-2W-C2N12-EX

Part number: 3471010

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                           | Value                                                                                                                                                                                                                                                     |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design                                            | Angular                                                                                                                                                                                                                                                   |
| Based on standard                                 | ISO 5211<br>VDI/VDE 3845                                                                                                                                                                                                                                  |
| CE mark (see declaration of conformity)           | To EU Explosion Protection Directive (ATEX)<br>To EU Low Voltage Directive<br>In accordance with EU RoHS Directive                                                                                                                                        |
| UKCA marking (see declaration of conformity)      | To UK EX instructions<br>To UK RoHS instructions<br>To UK regulations for electrical equipment                                                                                                                                                            |
| Explosion protection                              | Zone 1 (ATEX)<br>Zone 1 (BR)<br>Zone 1 (CN)<br>Zone 1 (IEC-EX)<br>Zone 1 (KR)<br>Zone 1 (UKEX)<br>Zone 2 (ATEX)<br>Zone 21 (ATEX)<br>Zone 21 (BR)<br>Zone 21 (CN)<br>Zone 21 (IEC-EX)<br>Zone 21 (IN)<br>Zone 21 (KR)<br>Zone 21 (UKEX)<br>Zone 22 (ATEX) |
| ATEX category gas                                 | II 2G                                                                                                                                                                                                                                                     |
| Explosion ignition protection type for gas        | Ex db IIC T6 Gb                                                                                                                                                                                                                                           |
| ATEX category dust                                | II 2D                                                                                                                                                                                                                                                     |
| Explosion ignition protection type for dust       | Ex tb IIIC T...°C Db                                                                                                                                                                                                                                      |
| Explosion protection certification outside the EU | EPL Db (BR)<br>EPL Db (CN)<br>EPL Db (GB)<br>EPL Db (IEC-EX)<br>EPL Db (IN)<br>EPL Db (KR)<br>EPL Gb (BR)<br>EPL Gb (CN)<br>EPL Gb (GB)<br>EPL Gb (IECEX)<br>EPL Gb (IN)<br>EPL Gb (KR)                                                                   |
| Explosion ambient temperature                     | -20°C ≤ Ta ≤ +60°C                                                                                                                                                                                                                                        |
| Max. surface temperature                          | 75 °C                                                                                                                                                                                                                                                     |

| Feature                                                                  | Value                                                                                                                             |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Certificate issuing authority                                            | DNV 16.0067X<br>Eurocert. SIL202587141<br>FTZU 15 ATEX 0095X<br>GYJ16.1497X<br>GYJ23.1167X<br>IECEX FTZU 15.0014X<br>KCC-18-GA4BO |
| Note on materials                                                        | RoHS-compliant                                                                                                                    |
| Safety Integrity Level (SIL)                                             | Safety Integrity Level 3                                                                                                          |
| Measuring principle                                                      | Mechanical/electrical                                                                                                             |
| Ambient temperature                                                      | -20 °C ... 60 °C                                                                                                                  |
| Switching output                                                         | Contacting                                                                                                                        |
| Switching element function                                               | Toggle switch, double-pole                                                                                                        |
| Max. output current AC                                                   | 3000 mA                                                                                                                           |
| Max. output current DC                                                   | 6000 mA                                                                                                                           |
| Operational voltage range AC                                             | 0 V ... 230 V                                                                                                                     |
| Operational voltage range DC                                             | 0 V ... 30 V                                                                                                                      |
| Microswitch type                                                         | Omron D3RV11                                                                                                                      |
| Electrical connection                                                    | 14-pin<br>Screw terminal                                                                                                          |
| Connectable nominal cross section conductor                              | 0.25 mm² ... 2.5 mm²                                                                                                              |
| Cable fitting                                                            | 1/2 NPT                                                                                                                           |
| Type of mounting                                                         | To VDI/VDE 3845                                                                                                                   |
| Connection point for positioner and position sensor conforms to standard | VDI/VDE 3845 size AA 1                                                                                                            |
| Mounting position                                                        | optional                                                                                                                          |
| Product weight                                                           | 1700 g                                                                                                                            |
| Housing colour                                                           | Silver                                                                                                                            |
| Material housing                                                         | Painted die cast aluminium                                                                                                        |
| Material seals                                                           | NBR                                                                                                                               |
| Material shaft                                                           | High-alloy stainless steel                                                                                                        |
| Material screws                                                          | High-alloy stainless steel                                                                                                        |
| Material mounting bracket                                                | High-alloy stainless steel                                                                                                        |
| Material indicator                                                       | PC                                                                                                                                |
| Material snap ring                                                       | High-alloy stainless steel                                                                                                        |
| Material disc                                                            | High-alloy stainless steel                                                                                                        |
| Position indicator                                                       | Yellow/red                                                                                                                        |
| Setting range of angular detection                                       | 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 to FN 942017-5 and EN 60068-2-27                                                                 |
| Vibration resistance                                                     | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6                                                  |
| LABS (PWIS) conformity                                                   | VDMA24364 zone III                                                                                                                |
| Pollution degree                                                         | 3                                                                                                                                 |