

# Sensorbox SRBE-CA3-YR90-MW-22A-2W-C2M20-EX

FESTO

Part number: 3471011



 General operating condition

## Data sheet

| Feature   | Value   |
|---|---|
| Design  | Square  |
| 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 RoHS instructions<br>To UK regulations for electrical equipment   |
| Explosion protection                              | Zone 1 (ATEX)<br>Zone 1 (CN)<br>Zone 1 (IEC-EX)<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 (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 Gb (CN)<br>EPL Gb (GB)<br>EPL Gb (IECEX)  |
| Explosion ambient temperature                     | -20°C ≤ Ta ≤ +60°C  |
| Max. surface temperature                          | 75 °C   |
| 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-GA4B0   |
| Note on materials                                 | RoHS compliant  |
| Safety Integrity Level (SIL)                      | SIL 3   |
| Measuring principle                               | mechanical/electrical   |
| Ambient temperature                               | -20 °C ... 60 °C  |

| Feature  | Value  |
|--|--|
| Switching output   | conventional   |
| Switching element function   | Toggle switch, two-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  | Screw terminal   |
| Connectable nominal cross section conductor                              | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                     |
| Cable fitting  | M20x1.5  |
| Type of mounting   | in accordance with VDI/VDE 3845  |
| 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   |
| 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   | Makrolon®  |
| 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  |