

# limit switch box

## SRBE-CA3-YR90-MW-22A-1W-C2M20-EX

Part number: 3471009

FESTO

For electrical feedback and position monitoring of process valves actuated with pneumatic quarter turn actuators, electromechanical measuring principle.



### Data sheet

| Feature   | Value  |
|---|--|
| Design  | Angular  |
| Based on the standard                             | ISO 5211<br>VDI/VDE 3845   |
| CE mark (see declaration of conformity)           | to EU directive explosion protection (ATEX)<br>to EU directive low-voltage devices<br>in accordance with EU RoHS directive                                 |
| UKCA marking (see declaration of conformity)      | To UK instructions for electrical equipment<br>To UK EX instructions<br>To UK RoHS instructions  |
| ATEX category Gas                                 | II 2G  |
| Explosion ignition protection type Gas            | Ex db IIC T6 Gb  |
| ATEX category Dust                                | II 2D  |
| Explosion ignition protection type Dust           | Ex tb IIIC T...°C Db   |
| Explosion protection certification outside the EU | EPL Db (BR)<br>EPL Db (CN)<br>EPL Db (IEC-EX)<br>EPL Db (IN)<br>EPL Db (KR)<br>EPL Gb (BR)<br>EPL Gb (CN)<br>EPL Gb (IEC-EX)<br>EPL Gb (IN)<br>EPL Gb (KR) |
| Explosion-proof ambient temperature               | -20°C ≤ Ta ≤ +60°C   |
| Max. surface temperature                          | 75 °C  |
| Certificate issuing department                    | 18-GA4BO-0430X<br>18-GA4BO-0431X<br>DNV 16.0067X<br>FTZU 15 ATEX 0095X<br>GYJ 16.1497X<br>IECEX FTZU 15.0014X<br>KCC-18-GA4BO                              |
| Materials note                                    | Conforms to RoHS   |
| Safety Integrity Level (SIL)                      | SIL 2  |
| Measuring principle                               | Mechanical/electrical<br>For proximity sensor  |
| Ambient temperature                               | -20 ... 60 °C  |
| Switch output                                     | Contact-type   |
| Switching element function                        | Toggle switch, single pole   |
| Max. output current AC                            | 3 A  |
| Max. output current DC                            | 6 A  |
| Operating voltage range AC                        | 0 ... 250 V  |
| Operating voltage range DC                        | 0 ... 30 V   |

| Feature  | Value  |
|--|--|
| Electrical connection  | 10-pin<br>Screwed terminal   |
| Connectable nominal conductor cross section                        | 0.25 ... 2.5 mm <sup>2</sup>   |
| Cable gland connection   | M20x1,5  |
| Mounting type  | On flange to ISO 5211<br>With mounting bracket   |
| Connection for positioner and position sensor conforms to standard | VDI/VDE 3845 size AA 1   |
| Assembly position  | Any  |
| Product weight   | 1,700 g  |
| Housing colour   | silver   |
| Material housing   | Die-cast aluminium, painted  |
| Material seals   | NBR  |
| Material shaft   | High alloy steel, non-corrosive  |
| Material screws  | High alloy steel, non-corrosive  |
| Material mounting bracket  | High alloy steel, non-corrosive  |
| Material indicator   | PC   |
| Material snap ring   | High alloy steel, non-corrosive  |
| Material disc  | High alloy steel, non-corrosive  |
| Position indicator   | Yellow/red   |
| Setting range, angle recording                                     | 0 ... 90 deg   |
| Storage temperature  | -20 ... 60 °C  |
| Protection class   | IP67   |
| Shock resistance   | Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27              |
| Vibration resistance   | Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 |
| PWIS conformity  | VDMA24364 zone III   |
| Degree of contamination  | 3  |