

# Limit switch box SRBE-CA3-YR90-MW-22A-2W-C2N12-EX

Part number: 3471010

**FESTO**



## Data sheet

| Feature                                           | Value                                                                                                                                                                                                                                                     |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design                                            | Square                                                                                                                                                                                                                                                    |
| Based on norm                                     | ISO 5211<br>VDI/VDE 3845                                                                                                                                                                                                                                  |
| CE marking (see declaration of conformity)        | as per EU explosion protection directive (ATEX)<br>As per EU low voltage directive<br>As per EU RoHS directive                                                                                                                                            |
| UKCA marking (see declaration of conformity)      | acc. to UK EX instructions<br>To UK RoHS instructions<br>To UK instructions for electrical equipment                                                                                                                                                      |
| Explosion prevention and 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                                                                                                                                                                                                                                                     |
| Type of ignition protection for gas               | Ex db IIC T6 Gb                                                                                                                                                                                                                                           |
| ATEX category for dust                            | II 2D                                                                                                                                                                                                                                                     |
| Type of (ignition) protection 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 (IEC-EX)<br>EPL Gb (IN)<br>EPL Gb (KR)                                                                  |

| Feature                                                                  | Value                                                                                                                                                                 |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Explosive ambient temperature                                            | -20°C ≤ Ta ≤ +60°C                                                                                                                                                    |
| Max. surface temperature                                                 | 75 °C                                                                                                                                                                 |
| Certificate issuing authority                                            | 18-GA4BO-0430X<br>18-GA4BO-0431X<br>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)                                             | SIL 3                                                                                                                                                                 |
| Measuring principle                                                      | Mechanical/electrical                                                                                                                                                 |
| Ambient temperature                                                      | -20 °C...60 °C                                                                                                                                                        |
| Switching output                                                         | Contact-based                                                                                                                                                         |
| Switching element function                                               | Toggle switch, double-pin                                                                                                                                             |
| Max. output current AC                                                   | 3 A                                                                                                                                                                   |
| Max. output current DC                                                   | 6 A                                                                                                                                                                   |
| Operating voltage range AC                                               | 0 V...230 V                                                                                                                                                           |
| DC operating voltage range                                               | 0 V...30 V                                                                                                                                                            |
| Microswitch type                                                         | Omron D3RV11                                                                                                                                                          |
| Electrical connection                                                    | 14-pin<br>Screw terminal                                                                                                                                              |
| Closable nominal conductor cross-section                                 | 0.25 mm²...2.5 mm²                                                                                                                                                    |
| Cable fitting                                                            | 1/2 NPT                                                                                                                                                               |
| Type of mounting                                                         | As per 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                                                                                                                                                                |
| 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                                                                                                                                                                     |