

# Limit switch box SRBC-CA3-YR90-MW-1-1WG-C2-EX6

Part number: 8137093

FESTO



 General operating condition

## Data sheet

| Feature   | Value  |
|---|--|
| CE mark (see declaration of conformity)           | To EU Explosion Protection Directive (ATEX)<br>In accordance with EU RoHS Directive  |
| UKCA marking (see declaration of conformity)      | To UK RoHS instructions  |
| Explosion protection                              | Zone 0 (ATEX)<br>Zone 0 (CN)<br>Zone 0 (IEC-EX)<br>Zone 0 (UKEX)<br>Zone 1 (ATEX)<br>Zone 2 (ATEX)<br>Zone 20 (ATEX)<br>Zone 20 (CN)<br>Zone 20 (IEC-EX)<br>Zone 20 (UKEX)<br>Zone 21 (ATEX)<br>Zone 22 (ATEX) |
| ATEX category gas                                 | II 1G  |
| Explosion ignition protection type for gas        | Ex ia IIC T6/T5 Ga   |
| ATEX category dust                                | II 1D  |
| Explosion ignition protection type for dust       | Ex ia IIIC Txx°C Da  |
| Explosion protection certification outside the EU | EPL Da (CN)<br>EPL Da (GB)<br>EPL Da (IEC-Ex)<br>EPL Ga (CN)<br>EPL Ga (GB)<br>EPL Ga (IEC-EX)   |
| Explosion ambient temperature                     | See ATEX certificate<br>See IECEx certificate  |
| Max. input voltage $U_i$                          | 30 V   |
| Effective internal inductivity $L_i$              | Negligibly low   |
| Effective internal capacitance $C_i$              | Negligibly low   |
| Max. intrinsically safe circuit input parameter   | See IECEx certificate<br>See ATEX certificate  |
| Certificate issuing authority                     | Eurocert. SIL202587141<br>FTZU 17 ATEX 0105X<br>GYJ20.1409X<br>IECEx FTZU 17.0017X   |
| Note on materials                                 | RoHS compliant   |
| Safety Integrity Level (SIL)                      | SIL 3  |
| Measuring principle                               | mechanical/electrical  |
| Ambient temperature                               | -40 °C ... 80 °C   |
| Switching output                                  | Contacting (gold)  |
| Switching element function                        | Toggle switch, single-pin  |

| Feature  | Value  |
|--|--|
| Max. output current DC   | 100 mA   |
| Operational voltage range DC   | 0 V ... 30 V   |
| Microswitch type   | Omron D2SW-01L1T   |
| Electrical connection  | Screw terminal   |
| Electrical connection 1, connection type                                 | Terminal strip   |
| Electrical connection 1, cable outlet                                    | Straight   |
| Electrical connection 1, connector system                                | Spring-loaded terminal   |
| Electrical connection 1, number of connections/cores                     | 10   |
| Connectable nominal cross section conductor                              | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                     |
| Permissible cable diameter   | 6 mm ... 12 mm   |
| Dimensions (W x L x H)   | 127 mm x 98 mm x 122 mm  |
| Connection point for positioner and position sensor conforms to standard | VDI/VDE 3845 size AA 1   |
| Mounting position  | Any  |
| Product weight   | 800 g  |
| Housing colour   | Grey   |
| Material housing   | Die-cast aluminium   |
| Material seals   | VMQ (silicone)   |
| Material shaft   | High-alloy stainless steel   |
| Material screws  | High-alloy stainless steel   |
| Material mounting bracket  | High-alloy stainless steel   |
| Material snap ring   | High-alloy stainless steel   |
| Material disc  | High-alloy stainless steel   |
| Material cover cap   | Makrolon®  |
| Position indicator   | Yellow/red   |
| Setting range of angular detection                                       | 0 deg ... 90 deg   |
| Storage temperature  | -20 °C ... 50 °C   |
| Degree of protection   | IP66   |
| 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 |
| Corrosion resistance class CRC   | 0 - No corrosion stress  |
| LABS (PWIS) conformity   | VDMA24364 zone III   |
| Pollution degree   | 3  |