

# Sensorbox

## SRBE-CA3-YR90-MW-22A-2W-C2N12-C1

Part number: 3998918

FESTO



## Data sheet

| Feature                                           | Value                                                                                                                                                                                          |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design                                            | Angular                                                                                                                                                                                        |
| Based on standard                                 | EN 60947-5-1<br>ISO 5211                                                                                                                                                                       |
| CE mark (see declaration of conformity)           | To EU Low Voltage Directive<br>In accordance with EU RoHS Directive                                                                                                                            |
| Explosion protection                              | Class I, Div. 1 (CA)<br>Class I, Div. 1 (US)<br>Class II, Div. 1 (CA)<br>Class II, Div. 1 (US)<br>Zone 1 (CA)<br>Zone 1 (US)<br>Zone 21 (CA)<br>Zone 21 (US)                                   |
| Explosion ignition protection type for gas        | AEx d IIB T5 Gb<br>Ex d IIB T5 Gb                                                                                                                                                              |
| Explosion ignition protection type for dust       | AEx tb IIIC T108°C Db<br>Ex tb IIIC T108°C Db                                                                                                                                                  |
| Explosion protection certification outside the EU | Class I, Div. 1 (CA)<br>Class I, Div. 1 (US)<br>Class II, Div. 1 (CA)<br>Class II, Div. 1 (US)<br>Class III (CA)<br>Class III (US)<br>EPL Db (CA)<br>EPL Db (US)<br>EPL Gb (CA)<br>EPL Gb (US) |
| Explosion ambient temperature                     | -20°C ≤ Ta ≤ +60°C                                                                                                                                                                             |
| Certificate issuing authority                     | CSA 263311                                                                                                                                                                                     |
| Note on materials                                 | RoHS-compliant                                                                                                                                                                                 |
| Safety Integrity Level (SIL)                      | SIL 2                                                                                                                                                                                          |
| Measuring principle                               | Mechanical/electrical<br>Via proximity switch                                                                                                                                                  |
| Ambient temperature                               | -20 °C...60 °C                                                                                                                                                                                 |
| Switching output                                  | Contacting                                                                                                                                                                                     |
| Switching element function                        | Toggle switch, double-pole                                                                                                                                                                     |
| Max. output current AC                            | 3 A                                                                                                                                                                                            |

| Feature                                                                  | Value                                                                            |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Max. output current DC                                                   | 6 A                                                                              |
| Operational voltage range AC                                             | 0 V...230 V                                                                      |
| Operational voltage range DC                                             | 0 V...30 V                                                                       |
| Electrical connection                                                    | 14-pin<br>Screw terminal                                                         |
| Connectable nominal cross section conductor                              | 0.25 mm <sup>2</sup> ...2.5 mm <sup>2</sup>                                      |
| Cable fitting                                                            | 1/2 NPT                                                                          |
| Type of mounting                                                         | On flange according to ISO 5211<br>Via mounting bracket                          |
| 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                                                                                |