

# Sensor box SRBE-CA3-YR90-MW-22A-1W-C2N12-EX

Part number: 3471008

FESTO



## Data sheet

| Feature   | Value  |
|---|--|
| Design  | Rectangular  |
| 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 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 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 (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)   |
| Explosive ambient temperature                     | -20°C ≤ Ta ≤ +60°C   |
| Max. surface temperature                          | 75 °C  |

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|--|---|
| Certificate issuing authority  | 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 |
| Note on materials  | RoHS-compliant  |
| Safety integrity level (SIL)   | SIL 2   |
| Measuring principle  | Mechanical/electrical<br>For proximity sensor   |
| Ambient temperature  | -20 °C...60 °C  |
| Switching output   | Contact-based   |
| Switching element function   | Toggle switch, single-pin   |
| Max. output current AC   | 3 A   |
| Max. output current DC   | 6 A   |
| Operating voltage range AC   | 0 V...250 V   |
| DC operating voltage range   | 0 V...30 V  |
| Electrical connection  | 10-pin<br>Screw terminal  |
| Closable nominal conductor cross-section                                 | 0.25 mm <sup>2</sup> ...2.5 mm <sup>2</sup>   |
| Cable fitting  | 1/2 NPT   |
| Type of mounting   | On flange as per ISO 5211<br>With mounting bracket  |
| 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  |
| 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   |