

Sensorbox SRBE-CA3-YR90-N-1-ZU-C2N12-EX

Part number: 3471018

FESTO



 General operating condition

Data sheet

| Feature | Value |
|---|--|
| Design | Angular |
| Based on standard | EN 60947-5-2 ISO 5211 VDI/VDE 3845 |
| Approval | RCM trademark |
| CE mark (see declaration of conformity) | To EU EMC Directive To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK RoHS instructions |
| Explosion protection | Zone 1 (ATEX) Zone 1 (CN) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (BR) Zone 21 (CN) Zone 21 (IEC-EX) Zone 21 (UKEX) Zone 22 (ATEX) |
| ATEX category gas | II 2G |
| Explosion ignition protection type for gas | Ex db IIC T6 Gb |
| ATEX category dust | II 2D |
| Explosion ignition protection type for dust | Ex tb IIIC T...°C Db |
| Explosion protection certification outside the EU | EPL Db (BR) EPL Db (CN) EPL Db (GB) EPL Db (IEC-EX) EPL Gb (CN) EPL Gb (GB) |
| Explosion ambient temperature | -20°C ≤ Ta ≤ +60°C |
| Max. surface temperature | 75 °C |
| Certificate issuing authority | DNV 16.0067X Eurocert. SIL202587141 FTZU 15 ATEX 0095X GYJ16.1497X GYJ23.1167X |
| Note on materials | RoHS-compliant |
| Safety Integrity Level (SIL) | Safety Integrity Level 3 |
| Measuring principle | Inductive |
| Ambient temperature | -20 °C ... 60 °C |
| Switching output | Non-contacting, 2-wire |
| Switching element function | N/O contact |

| Feature | Value |
|--|--|
| Max. output current DC | 4 mA ... 100 mA |
| Nominal output current | 0.004 A ... 0.1 A |
| Voltage drop | ≤5 V |
| Min. load current | 4 mA |
| Off-state current | 0 mA ... 1 mA |
| Operational voltage range DC | 5 V ... 60 V |
| Reverse polarity protection | For all electrical connections |
| Microswitch type | P&F NBB3-V3-Z4 |
| Electrical connection | Screw terminal |
| Connectable nominal cross section conductor | 0.25 mm ² ... 2.5 mm ² |
| Cable fitting | 1/2 NPT |
| Type of mounting | To VDI/VDE 3845 |
| 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 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 |