

Sensorbox SRBE-CA3-YR90-N-1-N-C2N12-C1

Part number: 3998921

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 In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK RoHS instructions |
| Explosion protection | Class I, Div. 1 (CA) Class I, Div. 1 (US) Class I, Div. 2 (CA) Class I, Div. 2 (US) Class II, Div. 1 (CA) Class II, Div. 1 (US) Zone 1 (CA) Zone 1 (US) Zone 2 (CA) Zone 2 (US) Zone 21 (CA) Zone 21 (US) |
| Explosion ignition protection type for gas | Ex nA IIC T5 Gc |
| Explosion ignition protection type for dust | Ex tb IIIC T108°C Db |
| Explosion protection certification outside the EU | Class I, Div. 1 (CA) Class I, Div. 1 (US) Class I, Div. 2 (CA) Class I, Div. 2 (US) Class II, Div. 1 (CA) Class II, Div. 1 (US) Class III (CA) Class III (US) EPL Db (CA) EPL Db (US) EPL Gb (CA) EPL Gb (US) EPL Gc (CA) EPL Gc (US) |
| Certificate issuing authority | CSA 263311 Eurocert. SIL202587141 |
| Note on materials | RoHS-compliant |
| Safety Integrity Level (SIL) | Safety Integrity Level 3 |
| Measuring principle | Inductive |
| Ambient temperature | -20 °C ... 60 °C |
| Switching output | NPN |
| Switching element function | N/O contact |

| Feature | Value |
|--|--|
| Max. output current DC | 100 mA |
| Voltage drop | ≤3 V |
| Off-state current | 0 mA ... 0.5 mA |
| Short circuit current rating | Pulsed |
| Operational voltage range DC | 10 V ... 30 V |
| No-load supply current | ≤15 mA |
| Reverse polarity protection | For all electrical connections |
| Microswitch type | P&F NBB2-V3-E0 |
| 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 | On flange according to ISO 5211 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 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 |