

Limit switch box SRBE-CA3-YR90-N-20N-ZC-C2N12-EX

Part number: 3471012

FESTO



 General operating condition

Data sheet

| Feature | Value |
|---|---|
| Design | Rectangular |
| Based on norm | EN 60947-5-2 ISO 5211 VDI/VDE 3845 |
| Certification | RCM compliance mark |
| CE marking (see declaration of conformity) | As per EU EMC directive as per EU explosion protection directive (ATEX) As per EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK RoHS instructions |
| Explosion prevention and protection | Zone 1 (ATEX) Zone 1 (CN) Zone 1 (IEC-EX) 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 |
| 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) EPL Db (CN) EPL Db (GB) EPL Db (IEC-EX) EPL Gb (CN) EPL Gb (GB) EPL Gb (IEC-EX) |
| Explosive ambient temperature | -20°C ≤ Ta ≤ +60°C |
| Max. surface temperature | 61 °C |
| Certificate issuing authority | DNV 16.0067X Eurocert. SIL202587141 FTZU 15 ATEX 0095X GYJ16.1497X GYJ23.1167X IECEX FTZU 15.0014X KCC-18-GA4BO |
| Note on materials | RoHS-compliant |
| Safety integrity level (SIL) | SIL 3 |
| Measuring principle | Inductive |

| Feature | Value |
|--|--|
| Ambient temperature | -20 °C ... 60 °C |
| Switching output | NAMUR |
| Switching element function | N/C contact |
| Max. output current DC | 3 mA |
| Nominal operating voltage DC | 8.2 V |
| Microswitch type | P&F NCB2-V3-N0 |
| Electrical connection | Screw terminal |
| Closable nominal conductor cross-section | 0.25 mm ² ... 2.5 mm ² |
| Cable fitting | 1/2 NPT |
| Type of mounting | as per VDI/VDE 3845 |
| 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 NEMA 4/4X |
| 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 |