

Limit switch box SRBC-CA5-YR90-N-20N-ZC-C2-EX6

Part number: 8137105

FESTO



 General operating condition

Data sheet

| Feature | Value |
|---|--|
| 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 0 (ATEX) Zone 0 (CN) Zone 0 (IEC-EX) Zone 0 (UKEX) Zone 1 (ATEX) Zone 2 (ATEX) Zone 20 (ATEX) Zone 20 (CN) Zone 20 (IEC-EX) Zone 20 (UKEX) Zone 21 (ATEX) Zone 22 (ATEX) |
| ATEX category gas | II 1G |
| Explosion ignition protection type for gas | Ex ia IIC T6/T5 Ga |
| ATEX category dust | II 1D |
| Explosion ignition protection type for dust | Ex i IIIC Txx°C Da |
| Explosion protection certification outside the EU | EPL Da (CN) EPL Da (GB) EPL Da (IECEX) EPL Ga (CN) EPL Ga (GB) EPL Ga (IEC-EX) |
| Explosion ambient temperature | See ATEX certificate See IECEx certificate |
| Max. input voltage U_i | 16 V |
| Effective internal inductivity L_i | 100 μ H |
| Effective internal capacitance C_i | 100 nF |
| Max. intrinsically safe circuit input parameter | See IECEx certificate See ATEX certificate |
| Certificate issuing authority | Eurocert. SIL202587141 FTZU 17 ATEX 0105X GYJ20.1409X IECEX FTZU 17.0017X |
| Note on materials | RoHS-compliant |
| Safety Integrity Level (SIL) | Safety Integrity Level 3 |
| Measuring principle | Inductive |
| Ambient temperature | -20 °C ... 80 °C |

| Feature | Value |
|--|--|
| Switching output | NAMUR |
| Switching element function | N/C contact |
| Max. switching frequency | 2000 Hz |
| Max. output current DC | 3 mA |
| Off-state current | 0 mA ... 0.5 mA |
| Operational voltage range DC | 8.2 V |
| Microswitch type | P&F NCB2-V3-N0 |
| Electrical connection | Screw terminal |
| Electrical connection 1, connection type | Terminal strip |
| Electrical connection 1, cable outlet | Straight |
| Electrical connection 1, connector system | Spring-loaded terminal |
| Electrical connection 1, number of connections/cores | 10 |
| Connectable nominal cross section conductor | 0.25 mm ² ... 2.5 mm ² |
| Permissible cable diameter | 6 mm ... 12 mm |
| Dimensions (W x L x H) | 114 mm x 98 mm x 122 mm |
| Type of mounting | On flange according to ISO 5211 |
| Mounting position | optional |
| Product weight | 800 g |
| Housing colour | grey |
| Material housing | 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 snap ring | High-alloy stainless steel |
| Material disc | High-alloy stainless steel |
| Material cover cap | PC |
| Position indicator | Yellow/red |
| Setting range of angular detection | 0 deg ... 90 deg |
| Storage temperature | -20 °C ... 50 °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 |
| Corrosion resistance class CRC | 0 - No corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Pollution degree | 3 |