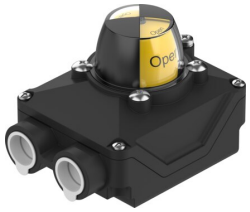
# Limit switch box
# SRBK-CA5-YR90-MW-1-1WG-C2-EX6

Part number: 8191220



## Data sheet

| Feature | Value |
|---|---|
| CE mark (see declaration of conformity) | To EU Explosion Protection Directive (ATEX)<br>In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK EX instructions<br>To UK RoHS instructions |
| Explosion protection | Zone 0 (ATEX)<br>Zone 0 (IEC-EX)<br>Zone 0 (UKEX)<br>Zone 1 (ATEX)<br>Zone 1 (IEC-EX)<br>Zone 1 (UKEX)<br>Zone 2 (ATEX)<br>Zone 20 (ATEX)<br>Zone 20 (IEC-EX)<br>Zone 20 (UKEX)<br>Zone 21 (ATEX)<br>Zone 21 (IEC-EX)<br>Zone 21 (UKEX)<br>Zone 22 (ATEX) |
| ATEX category gas | II 1G |
| Explosion ignition protection type for gas | Ex ia IIC T6 ...T4 Ga<br>Ex ia IIC T6/T5/T4 Gb |
| ATEX category dust | II 1D |
| Explosion ignition protection type for dust | Ex ia IIIC T135°C Db<br>Ex ia IIIC T200 135°C Da |
| Explosion protection certification outside the EU | EPL Da (GB)<br>EPL Da (IEC-Ex)<br>EPL Db (GB)<br>EPL Db (IEC-EX)<br>EPL Ga (GB)<br>EPL Ga (IEC-EX)<br>EPL Gb (GB)<br>EPL Gb (IECEx) |
| Explosion ambient temperature | -20°C <= Ta <= +80°C |
| Max. input voltage Ui | See IECEx certificate |
| Max. input current Ii | See IECEx certificate |
| Max. input power Pi | See IECEx certificate |
| Effective internal inductivity Li | See IECEx certificate |
| Effective internal capacitance Ci | See IECEx certificate |

| Feature | Value |
|---|---|
| Max. intrinsically safe circuit input parameter | See IECEx certificate |
| Certificate issuing authority | Eurocert. 93927<br>FTZU 24 ATEX 0075<br>IECEx FTZU 24.0024 |
| Note on materials | RoHS compliant |
| Safety Integrity Level (SIL) | SIL 3 |
| Measured variable | Position |
| Measuring principle | mechanical/electrical |
| Sensing range | 0 deg...90 deg |
| Ambient temperature | -20 °C...70 °C |
| Switching output | Contacting (gold) |
| Switching element function | Toggle switch, single-pin |
| Max. switching output voltage DC | 30 V |
| Max. output current DC | 100 mA |
| Max. switching capacity DC | 3 W |
| Operational voltage range DC | 0 V...30 V |
| Microswitch type | Omron SS-01 |
| Electrical connection | Screw terminal |
| Electrical connection 1, connection type | Terminal strip |
| Electrical connection 1, cable outlet | Straight |
| Electrical connection 1, design | Square |
| Electrical connection 1, connector system | Screw terminal |
| Electrical connection 1, number of connections/cores | 10 |
| Connectable nominal cross section conductor | 0.25 mm²...2.5 mm² |
| Cable fitting | M20x1.5 |
| Dimensions (W x L x H) | 119 mm x 85 mm x 89 mm |
| Type of mounting | on flange according to ISO 5211 |
| Mounting position | Any |
| Product weight | 360 g |
| Housing colour | Black |
| Material housing | PA66, electrically conductive |
| Material seals | NBR |
| Material shaft | PA |
| Material screws | Stainless steel |
| Material snap ring | High-alloy stainless steel |
| Material disc | High-alloy stainless steel |
| Protective cap material | Makrolon® |
| Switching status indication | Optical |
| Position indicator | Yellow/red |
| Setting range of angular detection | 0 deg...90 deg |
| Storage temperature | -20 °C...50 °C |
| Degree of protection | IP66<br>IP67 |
| Shock resistance | Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27 |
| Vibration resistance | Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6 |
| Corrosion resistance class CRC | 3 - high corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Pollution degree | 3 |