

# Limit switch box SRBG-C1-N-20N-ZC-M12-EX5

Part number: 3568057

FESTO



 General operating condition

## Data sheet

| Feature  | Value   |
|--|---|
| Design   | Rectangular   |
| Based on norm                                      | EN 60947-5-6<br>VDI/VDE 3845  |
| Certification                                      | RCM compliance mark<br>c UL us (OL)   |
| CE marking (see declaration of conformity)         | As per EU EMC directive<br>as per EU explosion protection directive (ATEX)<br>As per EU RoHS directive  |
| UKCA marking (see declaration of conformity)       | To UK RoHS instructions   |
| Explosion prevention and protection                | Zone 0 (ATEX)<br>Zone 0 (CN)<br>Zone 0 (UKEX)<br>Zone 1 (ATEX)<br>Zone 2 (ATEX)<br>Zone 20 (ATEX)<br>Zone 20 (CN)<br>Zone 20 (UKEX)<br>Zone 21 (ATEX)<br>Zone 22 (ATEX) |
| ATEX category gas                                  | II 1G   |
| Type of ignition protection for gas                | Ex ia IIC T6...T1 Ga  |
| ATEX category for dust                             | II 1D   |
| Type of (ignition) protection for dust             | Ex ia IIIC T200 135°C Da  |
| Explosion protection certification outside the EU  | EPL Da (CN)<br>EPL Da (GB)<br>EPL Ga (CN)<br>EPL Ga (GB)  |
| Explosive ambient temperature                      | See ATEX certificate<br>See IECEx certificate   |
| Effective internal inductance Li                   | 100 µH  |
| Effective internal capacitance Ci                  | 100 nF  |
| Max. input parameter of intrinsically safe circuit | See IECEx certificate<br>See ATEX certificate   |
| Certificate issuing authority                      | CML22UKEX2263X  |
| Note on materials                                  | RoHS-compliant  |
| Safety integrity level (SIL)                       | SIL 2   |
| Measuring principle                                | Inductive   |
| Ambient temperature                                | -25 °C ... 100 °C   |
| Switching output                                   | NAMUR   |
| Switching element function                         | N/C contact   |
| Max. switching frequency                           | 3000 Hz   |

| Feature   | Value  |
|---|--|
| Max. output current DC                                | 3 mA   |
| Short-circuit protection                              | yes  |
| DC operating voltage range                            | 8.2 V  |
| Reverse polarity protection                           | for all electrical connections   |
| Electrical connection, input                          | M12x1  |
| Electrical connection 1, connection type              | Plug   |
| Electrical connection 1, cable outlet                 | Straight   |
| Electrical connection 1, design                       | Round  |
| Electrical connection 1, connection technology        | M12x1 A-coded as per EN 61076-2-101  |
| Electrical connection 1, number of pins/wires         | 4  |
| Electrical connection for input 1, connection pattern | 00995600   |
| Type of mounting                                      | Threaded   |
| Mounting position                                     | Any  |
| Product weight  | 70 g   |
| Housing material                                      | PBT  |
| Material of screws                                    | High-alloy stainless steel   |
| Material of pneumatic fitting                         | Die-cast zinc, nickel-plated   |
| Switching status indication                           | LED yellow   |
| Storage temperature                                   | -40 °C ... 100 °C  |
| Degree of protection                                  | IP67   |
| 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  |