

# Limit switch box SRBC-CA3-YR90-N-1-N-C2P20

Part number: 3482809

**FESTO**



## Data sheet

| Feature                                        | Value                                                 |
|------------------------------------------------|-------------------------------------------------------|
| Certification                                  | RCM compliance mark<br>c CSA us (OL)                  |
| CE marking (see declaration of conformity)     | As per EU EMC directive<br>As per EU RoHS directive   |
| UKCA marking (see declaration of conformity)   | To UK instructions for EMC<br>To UK RoHS instructions |
| KC characters                                  | KC-EMV                                                |
| Certificate issuing authority                  | Eurocert. SIL202587141                                |
| Note on materials                              | RoHS compliant                                        |
| Safety integrity level (SIL)                   | SIL 3                                                 |
| Measuring principle                            | Inductive                                             |
| Ambient temperature                            | -20 °C...70 °C                                        |
| Switching output                               | NPN                                                   |
| Switching element function                     | N.O. contact                                          |
| Max. switching frequency                       | 1000 Hz                                               |
| Max. output current DC                         | 100 mA                                                |
| Voltage drop                                   | 3 V                                                   |
| Residual current                               | 0 mA...0.5 mA                                         |
| Short-circuit protection                       | Pulsed                                                |
| DC operating voltage range                     | 10 V...30 V                                           |
| Idle current                                   | 15 mA                                                 |
| Reverse polarity protection                    | for all electrical connections                        |
| Microswitch type                               | Switch type P&F NBB2-V3-E0                            |
| Electrical connection                          | Screw terminal                                        |
| Electrical connection 1, connection type       | Terminal strip                                        |
| Electrical connection 1, cable outlet          | Straight                                              |
| Electrical connection 1, connection technology | Spring-loaded terminal                                |
| Electrical connection 1, number of pins/wires  | 10                                                    |
| Closable nominal conductor cross-section       | 0.25 mm <sup>2</sup> ...2.5 mm <sup>2</sup>           |
| Cable fitting                                  | M20x1.5                                               |
| Approved cable diameter                        | 5 mm...13 mm                                          |
| Dimensions W x L x H                           | 127 mm x 98 mm x 122 mm                               |

| Feature                                                                  | Value                                                                                |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Connection point for positioner and position sensor conforms to standard | VDI/VDE 3845 Size AA 1                                                               |
| Mounting position                                                        | Any                                                                                  |
| Product weight                                                           | 800 g                                                                                |
| Housing colour                                                           | Gray                                                                                 |
| Housing material                                                         | Die-cast aluminum                                                                    |
| Seals material                                                           | NBR                                                                                  |
| Shaft material                                                           | high-alloy stainless steel                                                           |
| Material of screws                                                       | high-alloy stainless steel                                                           |
| Blanking plug material                                                   | PA                                                                                   |
| Material of mounting bracket                                             | high-alloy stainless steel                                                           |
| Pointer material                                                         | PC                                                                                   |
| Material for cable connector                                             | PA                                                                                   |
| Circlip material                                                         | high-alloy stainless steel                                                           |
| Disc material                                                            | high-alloy stainless steel                                                           |
| Cover cap material                                                       | PC                                                                                   |
| Position indicator                                                       | Yellow/red                                                                           |
| Angle detection setting range                                            | 0 deg...90 deg                                                                       |
| Storage temperature                                                      | -20 °C...50 °C                                                                       |
| Degree of protection                                                     | IP66<br>IP67<br>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 |
| Corrosion resistance class (CRC)                                         | 0 - No corrosion stress                                                              |
| LABS (PWIS) conformity                                                   | VDMA24364 Zone III                                                                   |
| Contamination level                                                      | 3                                                                                    |