

# Limit switch box SRBK-CA4-YR90-N-1-ZU-C2

Part number: 8182179

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                                                  | Value                                                                                                                               |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                               |
| Note on materials                                                        | RoHS-compliant                                                                                                                      |
| Measured variable                                                        | Position                                                                                                                            |
| Measuring principle                                                      | Inductive                                                                                                                           |
| Sensing range                                                            | 0 deg ... 90 deg                                                                                                                    |
| Ambient temperature                                                      | -20 °C ... 70 °C                                                                                                                    |
| Switching output                                                         | Non-contact, 2-wire                                                                                                                 |
| Switching element function                                               | N/O contact                                                                                                                         |
| Max. output current DC                                                   | 100 mA                                                                                                                              |
| Voltage drop                                                             | ≤4 V                                                                                                                                |
| Minimum load current                                                     | 4 mA                                                                                                                                |
| Residual current                                                         | 0.4 mA ... 0.55 mA                                                                                                                  |
| DC operating voltage range                                               | 5 V ... 60 V                                                                                                                        |
| Reverse polarity protection                                              | for all electrical connections                                                                                                      |
| Microswitch type                                                         | P&F NBB3-V3-Z4                                                                                                                      |
| Electrical connection                                                    | Screw terminal                                                                                                                      |
| Electrical connection 1, connection type                                 | Terminal strip                                                                                                                      |
| Electrical connection 1, cable outlet                                    | Straight                                                                                                                            |
| Electrical connection 1, design                                          | Rectangular                                                                                                                         |
| Electrical connection 1, connection technology                           | Screw 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                                                                                                                             |
| Dimensions W x L x H                                                     | 130 mm x 85 mm x 128 mm<br>130 mm x 85 mm x 138 mm<br>130 mm x 85 mm x 158 mm<br>147 mm x 85 mm x 128 mm<br>147 mm x 85 mm x 138 mm |
| Connection point for positioner and position sensor conforms to standard | VDI/VDE 3845 size AA 1<br>VDI/VDE 3845 size AA 2<br>VDI/VDE 3845 size AA 3                                                          |
| Mounting position                                                        | Any                                                                                                                                 |
| Product weight                                                           | 460 g                                                                                                                               |
| Housing colour                                                           | Black                                                                                                                               |
| Housing material                                                         | PA                                                                                                                                  |

| Feature                          | Value                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------|
| Seals material                   | NBR                                                                                  |
| Shaft material                   | PA                                                                                   |
| Material of screws               | Stainless steel                                                                      |
| Material of mounting bracket     | PA                                                                                   |
| Circlip material                 | High-alloy stainless steel                                                           |
| Protective cap material          | PC                                                                                   |
| Switching status indication      | Optical                                                                              |
| Position indicator               | Yellow/red                                                                           |
| Angle detection setting range    | 0 deg ... 90 deg                                                                     |
| Storage temperature              | -20 °C ... 50 °C                                                                     |
| Degree of protection             | IP66<br>IP67                                                                         |
| Shock resistance                 | Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27                |
| Vibration resistance             | Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 |
| Corrosion resistance class (CRC) | 3 - High corrosion stress                                                            |
| LABS (PWIS) conformity           | VDMA24364 zone III                                                                   |
| Contamination level              | 3                                                                                    |