

# Limit switch box SRAP-M-CA1-BB270-1-A-TP20-EX2

Part number: 568237

**FESTO**



## Data sheet

| Feature                                           | Value                                                                                                  |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Design                                            | Rectangular                                                                                            |
| Based on norm                                     | VDI/VDE 3845 (NAMUR)                                                                                   |
| Certification                                     | RCM compliance mark<br>c UL us - Recognized (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 instructions for EMC<br>acc. to UK EX instructions<br>To UK RoHS instructions                    |
| Explosion prevention and protection               | Zone 2 (ATEX)<br>Zone 2 (UKEX)<br>Zone 22 (ATEX)<br>Zone 22 (UKEX)                                     |
| ATEX category gas                                 | II 3G                                                                                                  |
| Type of ignition protection for gas               | Ex ec IIC T5 Gc X                                                                                      |
| ATEX category for dust                            | II 3D                                                                                                  |
| Type of (ignition) protection for dust            | Ex tc IIIC T90°C Dc X                                                                                  |
| Explosion protection certification outside the EU | EPL Dc (GB)<br>EPL Gc (GB)                                                                             |
| Explosive ambient temperature                     | -20°C ≤ Ta ≤ +80°C                                                                                     |
| Note on materials                                 | RoHS-compliant                                                                                         |
| Measured variable                                 | Rotation angle                                                                                         |
| Measuring principle                               | Magnetic Hall                                                                                          |
| Ambient temperature                               | -20 °C...80 °C                                                                                         |
| Analog output                                     | 4 - 20 mA                                                                                              |
| Repetition accuracy analog output in ± °          | 1 deg                                                                                                  |
| Short-circuit protection                          | yes                                                                                                    |
| Overload protection                               | Available                                                                                              |
| DC operating voltage range                        | 15 V...30 V                                                                                            |
| Idle current                                      | 12 mA...20 mA                                                                                          |
| Reverse polarity protection                       | for all electrical connections                                                                         |

| Feature                                  | Value                                          |
|------------------------------------------|------------------------------------------------|
| Electrical connection                    | 9-pin<br>Screw terminal<br>Plug-in             |
| Closable nominal conductor cross-section | 2.5 mm <sup>2</sup>                            |
| Cable fitting                            | M20                                            |
| Approved cable diameter                  | 5 mm...13 mm                                   |
| Max. cable length                        | 30 m                                           |
| Mounting position                        | Any                                            |
| Product weight                           | 1000 g                                         |
| Housing material                         | Wrought aluminum alloy                         |
| Position indicator                       | Blue/black                                     |
| Setting options                          | Teach-in<br>Teach-in via electrical connection |
| Angle detection setting range            | 0 deg...270 deg                                |
| Degree of protection                     | IP65                                           |
| Insulation voltage                       | 50 V                                           |
| Surge resistance                         | 0.8 kV                                         |
| Protection class                         | III                                            |
| Corrosion resistance class (CRC)         | 3 - High corrosion stress                      |
| LABS (PWIS) conformity                   | VDMA24364-B2-L                                 |
| Contamination level                      | 3                                              |