

# Sensorbox SRAP-M-CA1-GR270-1-A-TP20-EX2

Part number: 568241

FESTO



 [General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Design  | Angular  |
| Based on standard                                 | VDI/VDE 3845 (NAMUR)   |
| Approval  | RCM trademark<br>c UL us - Recognized (OL)   |
| CE mark (see declaration of conformity)           | To EU EMC Directive<br>To EU Explosion Protection Directive (ATEX)<br>In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity)      | To UK instructions for EMC<br>To UK EX instructions<br>To UK RoHS instructions                             |
| Explosion protection                              | Zone 2 (ATEX)<br>Zone 2 (UKEX)<br>Zone 22 (ATEX)<br>Zone 22 (UKEX)   |
| ATEX category gas                                 | II 3G  |
| Explosion ignition protection type for gas        | Ex ec IIC T5 Gc X  |
| ATEX category dust                                | II 3D  |
| Explosion ignition protection type for dust       | Ex tc IIIC T90°C Dc X  |
| Explosion protection certification outside the EU | EPL Dc (GB)<br>EPL Gc (GB)   |
| Explosion 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   |
| Analogue output                                   | 4 - 20 mA  |
| Repetition accuracy analogue output in ± °        | 1 deg  |
| Short circuit current rating                      | yes  |
| Overload protection                               | Available  |
| Operational voltage range DC                      | 15 V ... 30 V  |
| No-load supply current                            | 12 mA ... 20 mA  |
| Reverse polarity protection                       | For all electrical connections   |
| Electrical connection                             | 9-pin<br>Screw terminal<br>Plug-in   |
| Connectable nominal cross section conductor       | 2.5 mm <sup>2</sup>  |
| Cable fitting                                     | M20  |
| Permissible cable diameter                        | 5 mm ... 13 mm   |
| Max. cable length                                 | 30 m   |

| <b>Feature</b>                     | <b>Value</b>                                   |
|------------------------------------|--|
| Mounting position                  | optional                                       |
| Product weight                     | 1000 g   |
| Material housing                   | Wrought aluminium alloy                        |
| Position indicator                 | Red/green                                      |
| Setting options                    | Teach-in<br>Teach-in via electrical connection |
| Setting range of angular detection | 0 deg ... 270 deg                              |
| Degree of protection               | IP65   |
| Insulation voltage                 | 50 V   |
| Immunity to surge                  | 0.8 kV   |
| Protection class                   | III  |
| Corrosion resistance class CRC     | 3 - high corrosion stress                      |
| LABS (PWIS) conformity             | VDMA24364-B2-L                                 |
| Pollution degree                   | 3  |