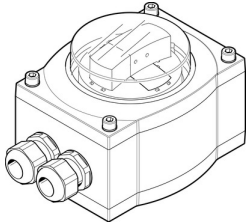


# Sensor box SRAP-M-CA1-GR270-1-A-T2P20-EX2

Part number: 568247

**FESTO**



## Data sheet

| Feature                                           | Value                                                                      |
|---------------------------------------------------|----------------------------------------------------------------------------|
| Type code                                         | SRAP                                                                       |
| 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) |
| Explosion prevention and protection               | Zone 2 (ATEX)<br>Zone 22 (ATEX)<br>Zone 2 (RU)<br>Zone 22 (RU)             |
| ATEX category gas                                 | II 3G                                                                      |
| Type of ignition protection for gas               | Ex nA IIC T5 X Gc                                                          |
| ATEX category for dust                            | II 3D                                                                      |
| Type of (ignition) protection for dust            | Ex tc IIIC T90°C X Dc IP65                                                 |
| Explosion protection certification outside the EU | EPL Dc (RU)<br>EPL Gc (RU)                                                 |
| 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                                             |
| Electrical connection                             | 9-pin<br>Screw terminal<br>Plug-in                                         |
| Closable nominal conductor cross-section          | 2.5 mm²                                                                    |
| Cable fitting                                     | M20                                                                        |
| Approved cable diameter                           | 5 mm ... 13 mm                                                             |
| Max. cable length                                 | 30 m                                                                       |
| Mounting position                                 | Any                                                                        |
| Product weight                                    | 1000 g                                                                     |

| Feature                          | Value                                          |
|----------------------------------|------------------------------------------------|
| Housing material                 | Wrought aluminum alloy                         |
| Position indicator               | Red/green                                      |
| 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                      |
| Contamination level              | 3                                              |