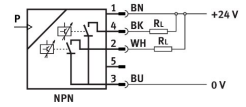


# Air gap sensor

## SOPA-M1-R1-HQ6-2N-M12

Part number: 552147

**FESTO**



## Data sheet

| Feature                                        | Value                                                                         |
|------------------------------------------------|-------------------------------------------------------------------------------|
| 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 RoHS directive                           |
| UKCA marking (see declaration of conformity)   | To UK instructions for EMC<br>To UK RoHS instructions                         |
| KC characters                                  | KC-EMV                                                                        |
| Note on materials                              | RoHS compliant                                                                |
| Detected variable                              | Distance                                                                      |
| Measuring principle                            | Pneumatic                                                                     |
| Sensing range                                  | 20 µm...200 µm                                                                |
| Supply pressure                                | 0.8 bar...1.6 bar                                                             |
| Operating medium                               | Compressed air as per ISO 8573-1:2010 [7:4:4]                                 |
| Information on operating and pilot media       | Operation with oil lubrication possible (required for further use)            |
| Ambient temperature                            | 0 °C...50 °C                                                                  |
| Repetition accuracy in ± µm                    | 2.5 µm                                                                        |
| Switching output                               | 2xNPN                                                                         |
| Switching function                             | Window comparator<br>Threshold value with variable hysteresis                 |
| Switching element function                     | N/C contact/N/O contact, switchable                                           |
| Max. output current                            | 100 mA                                                                        |
| Short-circuit protection                       | Yes                                                                           |
| DC operating voltage range                     | 15 V...30 V                                                                   |
| Max. current consumption                       | 250 mA                                                                        |
| Reverse polarity protection                    | for all electrical connections                                                |
| Electrical connection 1, connection type       | Plug                                                                          |
| Electrical connection 1, connection technology | M12x1 A-coded as per EN 61076-2-101                                           |
| Electrical connection 1, number of pins/wires  | 5                                                                             |
| Electrical connection 1, type of mounting      | Screw-type lock<br>not rotatable<br>Compatible with rotatable screw-type lock |
| Type of mounting                               | Alternatively:<br>With through-hole<br>With DIN rail                          |

| Feature                          | Value                              |
|----------------------------------|------------------------------------|
| Pneumatic connection             | QS-6                               |
| Product weight                   | 60 g                               |
| Housing material                 | Anodized aluminum<br>PA-reinforced |
| Display type                     | Multi-color backlit LCD            |
| Setting options                  | Teach-in<br>Via display and keys   |
| Protection against tampering     | Electronic locking mechanism       |
| Degree of protection             | IP65                               |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress      |
| LABS (PWIS) conformity           | VDMA24364-C1-L                     |