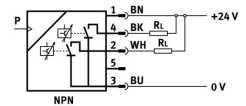


# Air gap sensor SOPA-M1-R1-HQ6-2N-M12

Part number: 552147

FESTO



[PDF General operating condition](#)

## Data sheet

| Feature                                              | Value                                                                                      |
|------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Symbol                                               | 00992014                                                                                   |
| Approval                                             | RCM trademark<br>c UL us - Recognized (OL)                                                 |
| CE mark (see declaration of conformity)              | To EU EMC Directive<br>In accordance with EU RoHS Directive                                |
| CE marking (see declaration of conformity)           | To UK instructions for EMC<br>To UK RoHS instructions                                      |
| KC mark                                              | 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 to ISO 8573-1:2010 [7:4:4]                                                  |
| Note on operating and pilot medium                   | Lubricated operation possible (in which case lubricated operation will always be required) |
| 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 or N/O contact, switchable                                                             |
| Max. output current                                  | 100 mA                                                                                     |
| Short circuit current rating                         | yes                                                                                        |
| Operational voltage range DC                         | 15 V ... 30 V                                                                              |
| Max. current consumption                             | 250 mA                                                                                     |
| Reverse polarity protection                          | For all electrical connections                                                             |
| Electrical connection 1, connection type             | Plugs                                                                                      |
| Electrical connection 1, connector system            | M12x1, A-coded to EN 61076-2-101                                                           |
| Electrical connection 1, number of connections/cores | 5                                                                                          |
| Electrical connection 1, type of mounting            | Screw-type lock                                                                            |
| Electrical connection 1, connection pattern          | 00991172                                                                                   |
| Type of mounting                                     | Either:<br>With through-hole<br>With H-rail                                                |
| Pneumatic connection                                 | QS-6                                                                                       |
| Product weight                                       | 60 g                                                                                       |

| Feature                        | Value                               |
|--------------------------------|-------------------------------------|
| Material housing               | Anodised aluminium<br>PA-reinforced |
| Display type                   | Illuminated LCD, multi-colour       |
| Setting options                | Teach-in<br>Via display and keys    |
| Protection against tampering   | Electronic interlock                |
| Degree of protection           | IP65                                |
| Corrosion resistance class CRC | 2 - Moderate corrosion stress       |
| LABS (PWIS) conformity         | VDMA24364-C1-L                      |