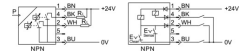


# Air gap sensor SOPA-CM3H-R1-WQ6-2N-M12

Part number: 552144

FESTO



## Data sheet

| Feature   | Value  |
|---|--|
| Type code   | SOPA   |
| Electrical connection 1, connection type              | Plug   |
| Electrical connection 1, type of mounting             | Screw-type lock  |
| Electrical connection 1, connection technology        | M12x1 A-coded as per EN 61076-2-101  |
| KC characters   | KC EMC   |
| Electrical connection for input 1, connection pattern | 00991172   |
| Electrical connection 1, number of pins/wires         | 5  |
| Detected variable                                     | Gap  |
| Repetition accuracy in $\pm \mu\text{m}$              | 2.5 $\mu\text{m}$  |
| Symbol  | 00995373   |
| 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                          |
| Note on materials                                     | Free of copper and PTFE<br>RoHS-compliant                                    |
| Measuring principle                                   | Pneumatic  |
| Sensing range   | 20 $\mu\text{m}$ ... 200 $\mu\text{m}$                                       |
| Operating pressure                                    | 4 bar ... 7 bar  |
| 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   |
| 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                            | 22.8 V ... 26.4 V  |
| Reverse polarity protection                           | for all electrical connections   |
| Type of mounting                                      | Optionally:<br>With through-hole<br>With H-rail<br>With wall/surface bracket |
| Pneumatic connection                                  | QS-6   |
| Product weight  | 630 g  |

| <b>Feature</b>                   | <b>Value</b>                            |
|----------------------------------|---|
| Housing material                 | Aluminum, anodized<br>PA-reinforced     |
| Display type                     | Illuminated LCD, multi-color            |
| Setting options                  | Teach-in<br>Via display and pushbuttons |
| Protection against tampering     | Electronic interlock                    |
| Degree of protection             | IP65                                    |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress           |