# air gap sensor
# SOPA-CM3H-R1-HQ6-2P-M12
Part number: 552132

*For contactless distance sensing.*
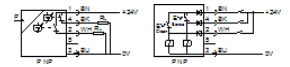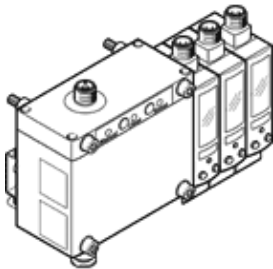
## Data sheet

| Feature | Value |
|---|---|
| Authorisation | RCM Mark |
| | c UL us - Recognized (OL) |
| CE mark (see declaration of conformity) | to EU directive for EMC |
| | in accordance with EU RoHS directive |
| KC mark | KC-EMV |
| Materials note | Free of copper and PTFE |
| | Conforms to RoHS |
| Detected variable | Distance |
| Measuring principle | pneumatic |
| Sensing range | 20 ... 200 µm |
| Operating pressure | 4 ... 7 bar |
| Supply pressure | 0.8 ... 1.6 bar |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (subsequently required for further operation) |
| Ambient temperature | 0 ... 50 °C |
| Repetition accuracy in ± µm | 2.5 µm |
| Switch output | 2xPNP |
| Switching function | Window comparator |
| | Threshold value with variable hysteresis |
| Switching element function | N/C or N/O contact, switchable |
| Max. output current | 100 mA |
| Short circuit strength | Yes |
| Operating voltage range DC | 22.8 ... 26.4 V |
| Polarity protected | for all electrical connections |
| Electrical connection 1, connection type | Plug |
| Electrical connection 1, connection technology | M12x1, A-coded in accordance with EN 61076-2-101 |
| Electrical connection 1, number of pins/wires | 5 |
| Electrical connection 1, type of mounting | Screw lock |
| Mounting type | with through hole |
| | with top-hat rail |
| | with wall/surface fixing |
| | Optional |
| Pneumatic connection | QS-6 |
| Product weight | 630 g |
| Material housing | Anodised aluminium |
| | PA-reinforced |
| Type of display | Illuminated LCD, multicoloured |
| Setting options | Teach-In |
| | Via display and buttons |
| Protection against manipulation | Electronic locking |
| Protection class | IP65 |
| Corrosion resistance classification CRC | 2 - Moderate corrosion stress |