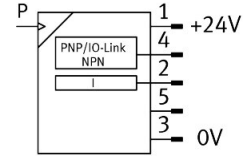


Air gap sensor SOPA-CM3H-R1-HQ6-PNLK-A-M12

Part number: 8093823

FESTO



Data sheet

[PDF General operating condition](#)

| Feature | Value |
|--|---|
| Symbol | 00997316 |
| Approval | RCM c UL us - Recognised (Oil) |
| CE mark (see declaration of conformity) | To EU EMC Directive In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | 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 |
| Operating pressure | 4 bar ... 7 bar |
| 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 | PNP/NPN, switchable |
| Switching function | Window comparator Threshold value with variable hysteresis |
| Switching element function | NC or NO, switchable |
| Max. output current | 100 mA |
| Analogue output | 4 - 20 mA |
| Starting value of distance characteristic | 0 µm |
| End value of distance characteristic | 300 µm |
| Rise time | 22 ms |
| Max. load resistance current output | 500 Ohm |
| Short circuit current rating | Yes |
| Protocol | IO-Link® |
| IO-Link, Protocol version | Device V 1.1 |
| IO-Link, Profile | Smart sensor profile |
| IO-Link, Function classes | Process data variable (PDV) Identification Diagnostics Teach channel Switching signal channel (SSC) |

| Feature | Value |
|--|--|
| IO-Link, communication mode | COM2 (38.4 kBaud) |
| IO-Link, SIO-Mode support | Yes |
| IO-Link, Port class | A |
| IO-Link, Process data length OUT | 0 bytes |
| IO-Link, Process data length IN | 2 bytes |
| IO-Link, Process data content IN | 1-bit SSC (supply pressure monitoring) 10-bit PDV (distance) 2-bit SSC (distance monitoring) |
| IO-Link, Service data IN | 14-bit supply pressure |
| IO-Link, Min. cycle time | 3 ms |
| IO-Link, Data storage required | <500 Byte |
| Operational voltage range DC | 22.8 V ... 26.4 V |
| Max. current consumption | 610 mA |
| Reverse polarity protection | For all electrical connections |
| Electrical connection 1, connection type | Plug |
| 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 | Not rotatable |
| Electrical connection 1, compatible type of mounting | Compatible with rotatable screw-type lock |
| Electrical connection 1, connection pattern | 00991172 |
| Type of mounting | With through-hole via DIN rail |
| Pneumatic connection | QS-6 |
| Product weight | 630 g |
| Material housing | Reinforced PA |
| Display type | Illuminated LCD, multi-colour |
| Setting options | IO-Link® Teach-in Via display and buttons |
| Protection against tampering | Electronic interlock |
| Degree of protection | IP65 |
| Corrosion resistance class CRC | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364-C1-L |