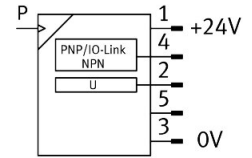


Air gap sensor SOPA-CM3H-R1-HQ6-PNLK-VB-M12

Part number: 8093822

FESTO



[PDF](#) General operating condition

Data sheet

| Feature | Value |
|--|---|
| Symbol | 00997315 |
| Certification | RCM compliance mark c UL us - recognized (OL) |
| CE marking (see declaration of conformity) | As per EU EMC directive As per EU RoHS directive |
| UKCA marking (see declaration of conformity) | 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 |
| 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 |
| Repetition accuracy in ± µm | 2.5 µm |
| Switching output | PNP/NPN switchable |
| Switching function | Window comparator Threshold value with variable hysteresis |
| Switching element function | N/C contact/N/O contact, switchable |
| Max. output current | 100 mA |
| Analog output | 0 - 10 V |
| Distance characteristic curve start value | 0 µm |
| Distance characteristic curve end value | 300 µm |
| Rise time | 22 ms |
| Min. load resistance of voltage output | 20 kOhm |
| Short-circuit protection | 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) |
| IO-Link®, communication mode | COM2 (38,4 kBd) |

| Feature | Value |
|---|--|
| IO-Link®, SIO mode support | Yes |
| IO-Link®, port class | A |
| IO-Link®, process data width OUT | 0 bytes |
| IO-Link®, process data width IN | 2 Byte |
| 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 contents IN | 14-bit supply pressure |
| IO-Link®, minimum cycle time | 3 ms |
| IO-Link®, data memory required | <500 byte |
| DC operating voltage range | 22.8 V ... 26.4 V |
| Max. current consumption | 550 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 | not rotatable |
| Electrical connection 1, type of mounting | Compatible with rotatable screw-type lock |
| Electrical connection for input 1, connection pattern | 00991172 |
| Type of mounting | With through-hole With DIN rail |
| Pneumatic connection | QS-6 |
| Product weight | 630 g |
| Housing material | PA-reinforced |
| Display type | Multi-color backlit LCD |
| Setting options | IO-Link® Teach-in 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 |