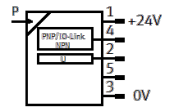
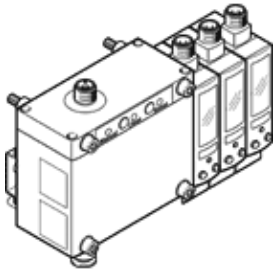


# Air gap sensor SOPA-CM3H-R1-HQ6-PNLK-VB-M12

Part number: 8093822

FESTO



## Data sheet

Feature	Value
Authorization	RCM Mark c UL us - Recognized (OL)
CE symbol (see declaration of conformity)	according to EU-EMV guideline in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
KC mark	KC-EMV
Materials note	Conforms to RoHS
Detected variable	Distance
Measuring principle	pneumatic
Sensing range	20 ... 200 µm
Working 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	PNP/NPN, switchable
Switching function	Window comparator Threshold value with variable hysteresis
Switching element function	N/C or N/O contact, switchable
Max. output current	100 mA
Analog output	0 - 10 V
Start value distance characteristic curve	0 µm
End value distance characteristic curve	300 µm
Rise time	22 ms
Min. load resistance, voltage output	20 kOhm
Short circuit strength	Yes
Protocol	IO-Link
IO-Link, protocol	Device V 1.1
IO-Link, profile	Smart sensor profile
IO-Link, function classes	Process Data Variable (PDV) Identification diagnosis Teach channel Switching signal channel (SSC)
IO-Link, communication mode	COM2 (38,4 kBaud)
IO-Link, SIO mode support	Yes
IO-Link, port type	A
IO-Link, process data width OUT	0 Byte
IO-Link, process data width IN	2 Byte
IO-Link, process data content IN	2-bit SSC (distance monitoring) 1-bit SSC (supply pressure monitoring) 10-bit PDV (distance)
IO-Link, Service data contents IN	14-bit supply pressure

Feature	Value
IO-Link, minimum cycle time	3 ms
IO-Link, data memory required	< 500 Byte
Operating voltage range DC	22.8 ... 26.4 V
Max. current consumption	550 mA
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 Optional
Pneumatic connection	QS-6
Product weight	630 g
Material housing	PA-reinforced
Type of display	Illuminated LCD, multicolored
Setting options	IO-Link Teach-In Via display and buttons
Protection against manipulation	Electronic locking
Protection class	IP65
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-C1-L