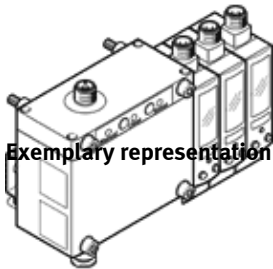


Air gap sensor SOPA-...

Part number: 549902

FESTO

For contactless distance sensing.



Exemplary representation

Data sheet

Overall data sheet – Individual values depend upon your configuration.

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	2xNPN 2xPNP 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 4 - 20 mA 1 - 5 V
Start value distance characteristic curve	0 µm
End value distance characteristic curve	300 µm
Rise time	22 ms
Max. load resistance, current output	500 Ohm
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)

Feature	Value
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
IO-Link, minimum cycle time	3 ms
IO-Link, data memory required	< 500 Byte
Operating voltage range DC	15 ... 30 V
Max. current consumption	150 ... 1,100 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 with wall/surface fixing Optional
Pneumatic connection	QS-6
Product weight	60 ... 690 g
Material housing	Anodised aluminium 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