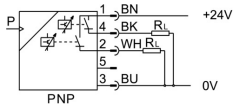
Air gap sensor
SOPA-M1-R1-HQ6-2P-M12

Part number: 552146



Data sheet

Feature	Value
Type code	SOPA
Electrical connection 1, connection type	Plug
Electrical connection 1, type of mounting	Screw-type lock
Electrical connection 1, connection technology	M12x1 A-coded as per EN 61076-2-101
KC characters	KC EMC
Electrical connection for input 1, connection pattern	00991172
Electrical connection 1, number of pins/wires	5
Detected variable	Gap
Repetition accuracy in ± µm	2.5 µm
Symbol	00992013
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
Note on materials	Free of copper and PTFE RoHS-compliant
Measuring principle	Pneumatic
Sensing range	20 µm ... 200 µm
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
Switching output	2xPNP
Switching function	Window comparator Threshold value with variable hysteresis
Switching element function	N/C contact/N/O contact switchable
Max. output current	100 mA
Short-circuit protection	yes
DC operating voltage range	15 V ... 30 V
Reverse polarity protection	for all electrical connections
Type of mounting	Optionally: With through-hole With H-rail
Pneumatic connection	QS-6
Product weight	60 g
Housing material	Aluminum, anodized PA-reinforced
Display type	Illuminated LCD, multi-color

Feature	Value
Setting options	Teach-in Via display and pushbuttons
Protection against tampering	Electronic interlock
Degree of protection	IP65
Corrosion resistance class (CRC)	2 - Moderate corrosion stress