SENSING UNITS SERIES SAM / SAVM / VS

SERIES SAM



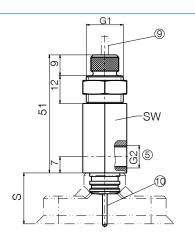
Special features

External thread

Vacuum connection (5)

Matches proximity switch NJ3-E2

Integrated plunger to detect workpiece (10)



	Technical Data	
Order no.	SAM14X1	SAM16X1
Connection type	1	1
G1	M14x1	M16x1
G2	M5	G1/8"
S [mm]*	12	21
SW [mm]	17	19

 * consider Dimension "S" (maximal distance of suction cup to assure an accurate sensing result)

SERIES SAVM



Special features

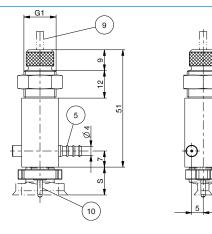
External thread

Integrated vacuum generator

Compressed air connection (5)

Matches proximity switch NJ3-E2 (9)

Integrated plunger to detect workpiece (10)



	Technical Data	
Order no.	SAVM14X1	SAVM16X1
Vacuum [bar]	-0.8	-0.8
Connection type	1	2
Air consumption suction [I norm]	12	14
Max. suction capacity [l/min]	3	2
Vacuum level [%]	80	78
Operating pressure [bar]	6	6
G1	M14x1	M16x1
S [mm]*	12	21

* consider Dimension "S" (maximal distance of suction cup to assure an accurate sensing result)

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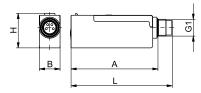
SERIES VS001



Special features

Switching points adjustable via teach button

Two digital switching outputs Vertical or horizontal fixing Electronic vacuum sensor 200 mA switching circuit



	Technical Data	Technical Data	
Order no.	VS001EL-E2	VS001ES-E2	
Measuring medium	non-aggressive gases; dry, oil-free air	non-aggressive gases; dry, oil-free air	
Measuring range [bar]	-10	-10	
Max. safe overpressure [bar]	5	5	
Repetition accuracy [%]	+/- 1% from measuring range	+/- 1% from measuring range	
Hysteresis fest [mbar]	20	20	
Output signal	2 digital	2 digital	
Switching capacity [mA]	200	200	
Status indication	LED	LED	
Electrical connection	Connector M8, 4-pole	Connector M8, 4-pole	
Voltage [V DC]	10-30	10-30	
Current consumption [mA]	20	20	
Degree of protection [IP]	40	40	
Temperature deviation	+/- 3% from measuring range	+/- 3% from measuring range	
Allowable ambient temperature [°C]	060	060	
Type of construction	horizontal	vertical	
G1	M8	M8	
Dimension A [mm]	41.2	36.2	
Dimension B [mm]	10	10	
Dimension H [mm]	16.4	17.5	
Dimension L [mm]	48	43	
Weight [kg]	6	6	

SENSING UNITS SERIES VS

SERIES VS003E

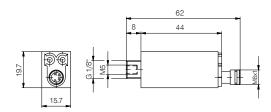


Special features

Electronic vacuum switch

Switching point and hysteresis adjustable

Analog and digital outputs



	Technical Data
Order no.	VS003E-E2
Measuring medium	non-aggressive gases; dry, oil-free air
Measuring range [bar]	-10
Max. safe overpressure [bar]	5
Repetition accuracy [%]	+/- 1% from measuring range
Hysteresis	Adjustable: 3-25% of the set value
Output signal	1 analog 15V / 1 digital
Switching capacity [mA]	125
Response time [ms]	5.0
Status indication	LED
Electrical connection	Connector M8, 4-pole
Connection media	G1/8" -AG + M5-IG
Voltage [V DC]	10.8-30
Current consumption [mA]	30
Degree of protection [IP]	40/65 (with tube)
Temperature deviation	+/- 3% from measuring range
Allowable ambient temperature [°C]	0.,.50
Weight [kg]	18

SERIES VS003D



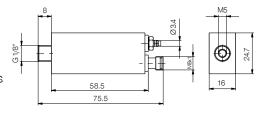
Special features

Electronic vacuum switch with digital display

Switching point and hysteresis freely programmable

Special programmable functions

Two separately programmable digital outputs



	Technical Data
Order no.	VS003D-E2
Measuring medium	non-aggressive gases; dry, oil-free air
Measuring range [bar]	-10
Max. safe overpressure [bar]	5
Repetition accuracy [%]	+/- 1% from measuring range
Hysteresis	adjustable: 0-100% of the set value/comparator mode
Output signal	2 digital
Switching capacity [mA]	180
Status indication	2xLED
Display resolution	0.01 bar, 5 mmHg, 0.2 inHg, 1 kPa
Displayed units	bar, mmHg, inHg, kPa
Displayed value	3-digital 7-segment LED
Electrical connection	Connector M8, 4-pole
Connection media	G1/8" -AG + M5-IG
Voltage [V DC]	10.8-30
Current consumption [mA]	30
Degree of protection [IP]	40/65 (with tube)
Temperature deviation	+/- 3% from measuring range 0-50°C
Allowable ambient temperature [°C]	0.,.50
Weight [kg]	25

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