

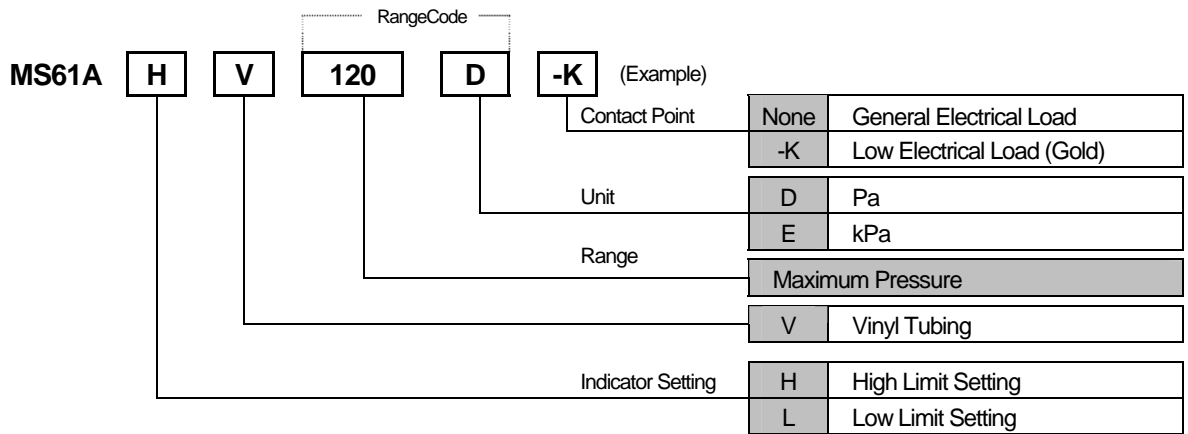
RoHS Compliant



## Manostar Switch MS61A: Small Differential Pressure Switch



MS61A



Model	High Limit Setting	Low Limit Setting	
	MS61AHV	MS61ALV	
Units	Pa, kPa		
Type of Measurement	Differential Pressure		
Mechanism	Diaphragm (Silicone Rubber)		
Gases Measured	Air and non-corrosive gases (no liquids)		
Pressure Measurement	Knob with indicator		
Installation	Free position: horizontal-vertical		
Operating Temperature	-10°C~50°C (no icing)		
Operating Humidity	Less than 90%RH (no condensation)		
Max. Casing Pressure	100kPa		
Max. Diaphragm Pressure	20kPa		
Outer Casing	Denatured Polyamide Resin		
Shock Resistance	100m/s <sup>2</sup> (6 times in each triaxial direction)		
Vibration Resistance	5-10Hz Total Amplitude 10mm 10- 50Hz Accelerated Amplitude 39m/s <sup>2</sup> (2 hours in each triaxial direction)		
Insulation Resistance	Terminal to ground: >20MΩ (500V DC megger)		
Electrical Resistance	Terminal to ground: 1500V AC 50/60 Hz 1 min.		
Applicable Tubing	Soft vinyl or rubber tubing (ID 4 mm)		
Connector Orientation	High pressure side marked "H", low pressure side marked "L"		
Contact Points	For General Electric Load or Low Electric Load (See Micro Switch Contact Point Rating or Safety Regulation Approved Rating)		
Weight	Approx. 140g		
Range Code	Display Range	Accuracy (20°C)	Maximum Pressure Differential
120D	20~120 Pa	± 5 Pa	25 Pa
300D	50~300 Pa	± 15 Pa	40 Pa
600D	100~600 Pa	± 25 Pa	80 Pa
1.2E	0.2~1.2 kPa	± 50 Pa	150 Pa
3E	0.5~3 kPa	± 150 Pa	400 Pa
6E	1~6 kPa	± 300 Pa	700 Pa

- If you are planning to install the gauge facing downward (horizontally, or at an angle), please specify at the time of order, as the unit must be adjusted prior to shipment.
- When measuring flammable gases, or using switch in a flammable atmosphere, use anti-explosive construction and contact signal exchangers.

**Internal Micro Switch Contact Rating**

Contact Point	Specs.	Rated Voltage	Resistive Load	Inductive Load	Load on Motor
General Load	Contact construction: SPDT(single pole double throw)	30V DC	3A	2A	----
	Electrical life: over 100,000 cycles	125V AC	5A	3A	1A
	Contact material: pure silver (circular rivet points)	250 VAC	5A	3A	0.5A
Low Load	Contact construction: SPDT (single pole double throw)	30V DC	0.1A	----	----
	Electrical life: over 100,000 cycles	125V AC	0.1A	----	----
	Contact material: gold alloy (cross points)				

**Safety Regulation Approval Rating**

Certified Regulation

UL and C-UL Recognition Component

Regulation No.: UL508, File No. E240648

	Model	Rating
General Load	MS61AHV, MS61ALV	AC 5A-1/6HP-125,250V DC 0.5A-125V
Low Load	MS61AHV-K, MS61ALV-K	AC 0.1A-125V DC 0.1A-30V

- Reliability of the general load contact is reduced when used with very low voltage or current; the low load model should be used in such cases.
- Always use surge protection circuits to prevent contact damage when using inductive load circuits such as relays.

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For more information, please contact:

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