

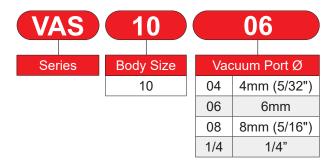
VACUUM SWITCHES

VAS VACUUM SWITCH



- · Diaphragm vacuum switch
- · Compact size
- Lightweight
- Inch port sizes 5/32", 1/4 & 5/16
- Metric port sizes 4, 6 & 8mm
- · Fully adjustable

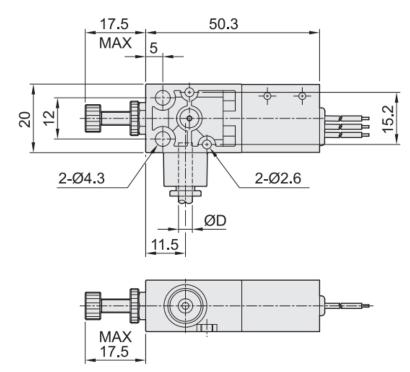




SPECIFICATIONS

Model	Vacuum Connection	Adjustment Range	Accuracy	Hysterisis	Electrical Rating
VAS1004	4mm / 5/32"				
VAS1006	6mm	4 F 40"Ha	0.05kPa	10kPa	AC125V - 5A
VAS1014	1/4"	4.5-12"Hg	(1.5"Hg)	(3"Hg)	AC125V - 5A
VAS1008	8mm / 5/16"				

DIMENSIONS (mm)



This vacuum switch is also part of the Vacuforce VABS vacuum venturi/switch combination. More details of this combination part can be found in the vacuum venturi section of the Vacuforce main catalogue.







• Adjustable vacuum from -0.1kPa to -83kPa (-3" H2O to -332"H2O)

• Snap action basic switch, up to 25A*, 125/250 VAC

- 1/8NPT Vacuum port
- Small size, lightweight, low cost
- Dependable long life of 10,000,000+ cycles



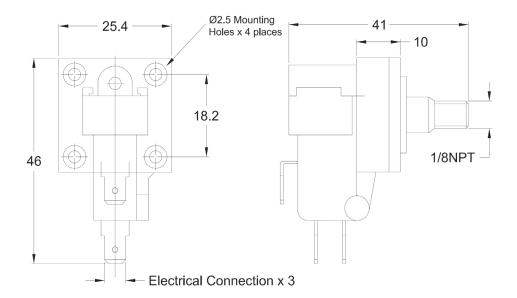
Part Number



MECHANICAL SPECIFICATIONS					
Standard Tolerance	+/-20%				
Switch Type	Normally Open or Normally Closed				
Switching Medium	Air				
Operating Temperature	4 - 65°C / 40-150°F				

PHYSICAL SPECIFICATIONS					
Case Material	Polycarbonate				
Vacuum Port	1/8NPT Male				
Diaphragm Material	Polyurethane				
Electrical Terminals	0.187' x 0.020" Spade Terminal				
Weight	20g				

ELECTRICAL SPECIFICATIONS					
Current Rating	15A				
Operating Voltage	125/250VAC				





LF20 VACUUM SWITCH



- OEM type diaphragm vacuum switch
- · Compact size
- Air and liquid compliant
- 1/8NPT Male vacuum port
- Factory set point
- Tamper free construction

The LF20 pressure switch is specifically designed to stand up to extended duty applications. This switch is factory set but capable of field adjustment. It features different diaphragms for compatibility with a wide variety of fluids, and various terminations. Among the outstanding design benefits are its durable construction, compact size, and enhanced set point integrity. It can be widely used for pool and spa, anti-skid braking systems, water pump systems, and dental air compressors, heavy construction, off road equipments and other pressure control systems.

Model Number	Switch Point	Type	Rubber Boot	Connection Port
LF20-V-31111B-15"HG	15"Hg	Normally Closed	Included	1/8NPT
LF20-V-32111B-15"HG	15"Hg	Normally Open	Included	I/OINP I

SPECIFICATIONS

Model	Vacuum Connection		
Maximum Over Pressure	150psi(g)		
Burst Pressure	500 psi(g)		
Operating Temperature Range	-40°F to +176°F (-40°C to +80°C)		
Switch Type	Direct action, blade contact		
Electrical Rating	120/240VAC, 375VA 120VVAC, 5.8FLA-34.8LRA 240VAC 2.9FLA-15LRA 24VAC/DC, 3A		
Dialogtria Strangth	750 VRMS across open contacts		
Dielectric Strength	1550 VRMS terminal to fitting		
Terminals	1/4" Spade Connection		
Connection	1/8NPT (other connection types available, please inquire)		

DIMENSIONS (mm)









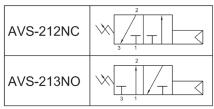


- Typically used in an all pneumatic circuit
- Can be used as an energy saving device for vacuum venturi systems
- 1/8NPT and G1/8 Male vacuum port
- 4mm (5/32") Pneumatic connection ports
- · Field adjustable



SPECIFICATIONS

Model Number	Vacuum Switch Range	Туре	Signal Pressure Range	Temperature Rating	Hysteresis	Weight
AVS-212	-15kPa to -95kPa (4.5-28.5"Hg)	Normally Closed	1.5-8bar	-10°C to 60°C (14°F - 140°F)	12kPa (3"Hg)	44g (1.5oz)
AVS-213	-10kPa to -95kPa (3-28.5"Hg)	Normally Open	(23-120psi)		3kPa (0.1"Hg)	



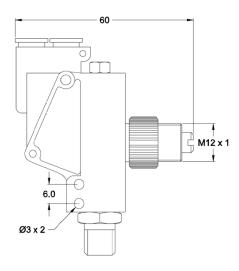
NORMALLY CLOSED FUNCTION

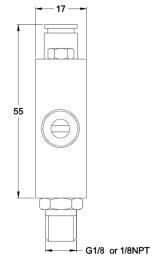
Compressed air is supplied to port (1). As the vacuum increases the path between ports (1) and (2) remain closed. Once the vacuum set point is reached, the ports connect passing air through the switch.

NORMALLY OPEN FUNCTION

Compressed air is supplied to port (1). As the vacuum is increasing the path between ports (1) and (2) remain open with signal air passing through the switch. Once the vacuum set point is reached, the ports close stopping the flow of signal air.

DIMENSIONS (mm)





AP25 & AP30 PRESURE SENSOR



- Solid state digital vacuum & pressure switches
- Two types AP25 and AP30
- Suitable for vacuum and pressure use
- Selectable pressure units, kPa, bar, psi, mmHg
- IP65 Insulation



AP25



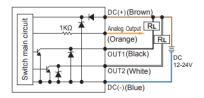
01 Series Output Type AP25 2 x NPN + 1 x Analogue С Compound Ρ 02 2 x NPN AP30 Pressure V 03 2 x PNP + 1 x Analogue Vacuum 04



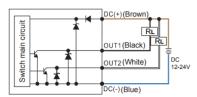
QD

SPECIFICATIONS Media Non lubricated dry air or non corrosive gas Over Pressure 3bar (45psi) **Electrical Connection** M8 4 Pin male connector (analogue use 6ft lead wire) Operating Voltage 12 - 24VDC ±10% **Current Consumption** ≤55mA Display 4 Digit 7 Segment Red LED **Display Units** kPa, MPa, kgf/cm², bar, psi, inHg, mmHg, mmH2O Repeatability ≤2% F.S ± 1 digit Hysteresis Adjustable Response Time ≤2.5ms (chatter proof selectable 24, 192 & 768ms) OUT1 = Green LED OUT2 = Red LED Indicator **Analogue Output** 1 to $5V \le \pm 5\%$ F.S Linearity $\le \pm 1\%$ F.S Insulation AP25 - IP65, AP30 - IP40 **Ambient Temperature** 0-50°C (32-122°F) Vacuum / Pressure Port G1/8 & 1/8NPT Female Shock Resistance 980m/s (100G) 3 times in each direction X,Y & Z Weight 71g 35g AP25 - 71g, AP30 - 35g

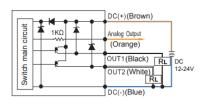
NPN Output & Analog Output



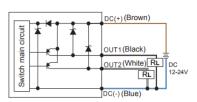
NPN Output



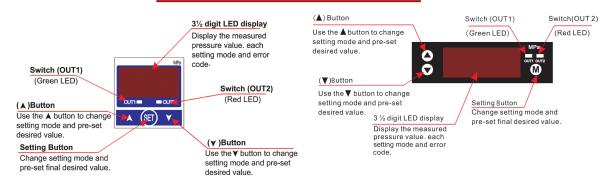
PNP Output & Analog Output



PNP Output



Panel Instructions



AP10 PRESSURE SENSOR

9ft Lead

M8 3 Pin Male

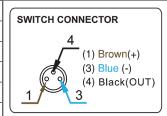


- Solid state digital vacuum & pressure switches
- · Suitable for vacuum and pressure use
- Miniature design
- Stem and thread connection ports

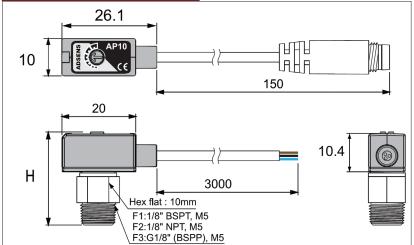


AP10		V		01		1/4		
Series	Туре		Type Output		V	Vacuum Port		Ele
	Р	Pressure	02	2 x NPN	1/4	Ø1/4" Stem		
	V	Vacuum	04	2 x PNP	R4	Ø4mm Stem		С
					R6	Ø6mm Stem		
					F1	1/8BSPT		
					F2	1/8NPT		
					M5	M5x0.8		

SPECIFICATIONS			
Media	Non lubricated dry air or non corrosive gas		
Maximum Over Pressure	AP10V - 6bar (87psi), AP10P - 14bar (217psi)		
Electrical Connection	M8 3 Pin male connector or 9ft lead wire		
Operating Voltage	10.8 – 30VDC (includes ripple voltage)		
Load Current	90mA max.		
Repeatability	≤1% F.S ± 1 digit		
Hysteresis	3% F.S. max		
Response Time	≤2.5ms (chatter proof selectable 24, 192 & 768ms)		
Indicator	Red LED turns on		
Insulation	IP40		
Ambient Temp.	0-60°C (32-140°F)		
Vacuum / Pressure Port	Push In Stem for Fitting or 1/8NPT Male		
Shock Resistance	980m/s (100G) 3 times in each direction X,Y & Z		
Weight	50g with 9ft cable		



DIMENSIONS (mm)



	Height (H)					
1/4	Ø1/4" Stem	30mm				
R4	Ø4mm Stem	32mm				
R6	Ø6mm Stem 30mm					
F1	1/8BSPT					
F2	1/8NPT 25mm					
M5	M5x0.8	23mm				



NOTES