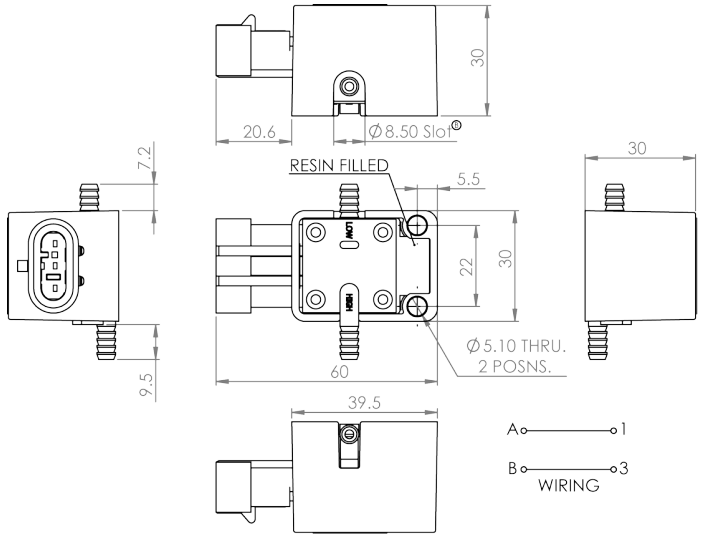
Pressure Switch - VPS100A

- Excellent shock and vibration resistance
- Miniature size, lightweight, low cost
- Quick response time
- -40…90°C operating temperature
- IP67 protection
- AMP Superseal 2 Pin connector
- Dependable long life (20+ million cycles)

Our durable and ultra-sensitive VPS100A series pressure switch incorporates a patented dual diaphragm / dual contact design offering protection against false actuation due to shock and vibration. Fitted with an AMP Superseal connector for straightforward installation, the switch features a teflon diaphragm, IP67 protection and an extended temperature range.

Reference Dimensions (mm)



Specification

MECHANICAL	
Standard Tolerance	±20%
Switch Type	SPST normally open | double-make / double-break
Switching Medium	Air and compatible gases; compatible fluids on "High" side
Mechanical Life	More than 20 million cycles
Maximum Operating Pressure"	4psi: for units with Teflon® diaphragm of 0.5" H_2O or less 8psi: for units with Teflon® diaphragm greater than 0.5" H_2O
Shock & Vibration	At zero pressure, will not make at 50 g shock, will not make at 10 g, 50 to 2000 Hz vibration
Operating Temp.	-40…90°C

PHYSICAL	
Case Material	Polycarbonate
Porting Options	„Two .200" diameter barbed ports (low / high) for use with 1/8" - 3/16" ID tubing"
Diaphragm Material	Teflon® (other material options available)
Electrical Connections	AMP Superseal 2 PIN connector
Mounting	2 Mounting holes
Weight	Less than 100 grams
ELECTRICAL	
Current Rating	40mA resistive for life in excess of 20 million cycles
Operating Voltage	AC/DC – 30V or less with resistive load; 120 VAC neon lamp load

Set Point Options

	0.5	1.0	1.5	2.0	3.0	4.0	6.0	8.0	10.0	12.0	15.0	20.0	30.0	40.0	50.0
In. H_2O	0.1 - 0.5	1.0	1.5	2.0	3.0	4.0	6.0	8.0	10.0	12.0	15.0	20.0	30.0	40.0	50.0
mbar	0.25 - 1.25	2.49	3.73	4.98	7.47	9.96	14.95	19.92	24.91	29.91	37.36	49.76	74.73	99.63	124.59
psi	0.004 - 0.018	0.036	0.054	0.072	0.108	0.144	0.217	0.289	0.361	0.433	0.541	0.722	1.083	1.444	1.804

Ordering : Use Part Number VPS100A-xxT where xx = Pressure in In. H_2O

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