

Rev. 01/15/14

## Features & Options

- Easy to Access Field Adjustable Setpoint from 0.1" to 35" W.C.
- UL 353 Listing So the Unit Can Be Used for Safety Controls
- 5 Amp Silver Contacts
- Built In Pressure Snubber for More Stable Readings

The BAPI Differential Pressure Switch is ideal for air filter monitoring, static pressure proving, airflow proving or auxiliary fan actuation. Because of its UL 353 Limit Control Listing, the BAPI Switch can be used in safety circuits to protect heating appliances, heating systems, processing systems and HVAC/R systems.

The setpoint is field adjustable from 0.1" to 35" W.C, and the unit can measure positive pressure, vacuum or true differential pressure. The seven pressure ranges are field selectable by changing a color-coded spring. The spring for the range that you order is preinstalled, and the other six springs are shipped with the unit so that you can change ranges in the field if you choose.


The unit features a rugged plastic enclosure that protects the electrical terminations and pressure adjustment screw which is easily accessed through a port in the front cover using a square screwdriver bit (ALC/SQ1BIT). The quick connect wiring terminations are accessed by opening the hinged cover. The unit is very compact and can be mounted directly on a flat surface with the rugged mounting feet, and the pressure barbs accept 3/16" or 1/4" tubing.

The unit also features an extremely high proof pressure of 100" W.C. so that it will continue to function properly even if it is accidentally connected to an unusually high or low pressure.



**Differential Pressure  
Switch**

## Ordering Information

Part Number	Description
ALC/ZPS-SW1	Differential Pressure Switch, 0.12" to 0.52" W.C. (30 Pa to 130 Pa)
ALC/ZPS-SW2	Differential Pressure Switch, 0.40" to 1.40" W.C. (100 Pa to 350 Pa)
ALC/ZPS-SW3	Differential Pressure Switch, 1.20" to 2.40" W.C. (300 Pa to 600 Pa)
ALC/ZPS-SW4	Differential Pressure Switch, 2.40" to 6.42" W.C. (600 Pa to 1,600 Pa)
ALC/ZPS-SW5	Differential Pressure Switch, 5.22" to 12.84" W.C. (1,300 Pa to 3,200 Pa)
ALC/ZPS-SW6	Differential Pressure Switch, 11.64" to 23.68" W.C. (2,900 Pa to 5,900 Pa)
ALC/ZPS-SW7	Differential Pressure Switch, 21.68" to 35.32" W.C. (5,400 Pa to 8,800 Pa)
ALC/SQ1BIT	Square Screwdriver Bit to turn the Pressure Adjustment Screw 

## Specifications

**Measurement Media:** Air, Combustion Gases

**Operating Temperature:** -40 to 185°F (-40 to 85°C)

**Operating Humidity:** 5 to 95% RH non-condensing

**Contact Ratings:**

28 VA pilot duty, 24 VAC • 1/10 HP, 120-277 VAC

125 VA Pilot Duty, 125 VAC • 2.5 A Inductive, 125 VAC

5 A Resistive, 125 VAC • 0.1 A, 30 VDC

**Proof Pressure:** 100" W.C. (3.6 PSI, 24,900 Pa)

**Pressure Ports:** 1/4" Barbed Fittings

**Switch Type:** SPDT (Silver Contacts)

**UL Limit Control Listing:** 353

**Repeatability:** <10% of Setting

**Hysteresis:** 0.07 to 0.09 Inch W.C. For All Ranges

