



DPS52A

Differential Pressure Switch

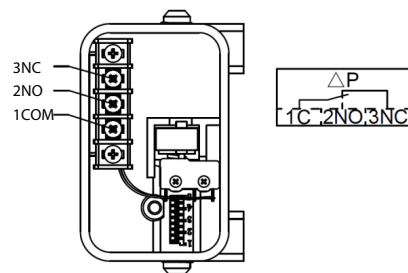
Product Description

This series of switch is adjustable differential pressure flow switch.

We will choose sample point separately at required inspection area by two side, at most of time there will be one equipment in this area: like water filter, pump, valve, heat exchanger, chillers, evaporators, condensers, coils, etc, when these two sample points of differential exceed/under setting value, switch will cut in/ cut off circuit output signal to control system, then Display status/ alarm/ flow control function.

In practical use, when switch use in system, such as HVAC water system for flow control, the accuracy will be higher, without extra resistance to water system, and no special requirement for tube size, and no flow disturbance, and can avoid pump gas etching problem which will bring false flow value. Reference standard: UL508.

Wiring Diagram



Technical Parameters

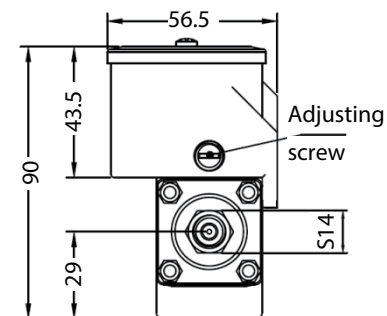
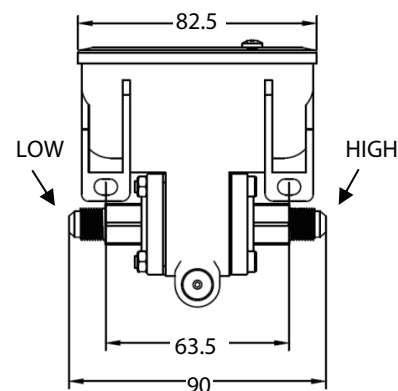
Medium	Water, air, oil and other non-corrosive medium
Contact	Single group SPDT (microswitch)
Electrical Specifications	3A 250VAC 5A 125VAC
Storage temperature	"-29~82°C"
Ambient temperature	"-20~71°C"
Medium temperature	"-20~93°C(fluid)"
Maximum allowable static pressure	16bar
Maximum allowable differential pressure	10bar
Set point repeatability deviation	±1%
Protection class	Protection class IP54
Accessories are optional (default if not required)	Converted capillary

Specification

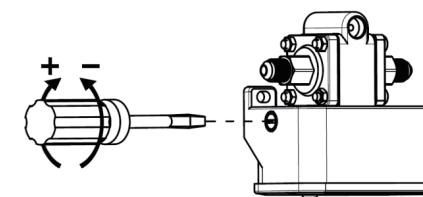
Model	Differential pressure adjustable range kPa	Return difference kPa	One turn variation kPa
DPS52A-15	5—15	3±1	1
DPS52A-30	5—30	3±1	2.2
DPS52A-70	6—70	3±1	5.5
DPS52A-100	6—100	5±1	6.5
DPS52A-200	10—200	6±1	16
DPS52A-300	20—300	7±1	25
DPS52A-400	30—400	8±1	38

Installation Drawing

Units:



Pressure Regulation Steps



Before installation

The pressure decreases with the flow. Distinguish the high and low voltage ends during installation.

Installation procedure:

- ① Secure the switch with a suitable screw
- ② Select the appropriate adapter or capillary.
- ③ Connect the switch to the device with two spanner
- ④ Screw out the screws and open the upper cover.
- ⑤ The wire passes through the terminal and Connect according to wiring diagram II.
- ⑥ Close the upper cover and Tighten the screws.

Pressure regulation steps:

- ① Insert a slotted screwdriver at the voltage regulating end.
- ② Turn them clockwise to increase the differential pressure and vice versa.
- ③ Adjust the switch to the required differential pressure according to the external pressure gauge.