Air Differential Pressure Switch(Variable)

(AAPS-3V) (AAPS-5V) (AAPS-10V) - PNAL

PRODUCT SPECIFICATION SHEET



FEATURES

- This switch operates by a positive pressure and negative pressure, a differential pressure.
- This switch is operated to low pressure of 0 to 100mbar and a user is able to request necessary pressure point.
- This switch has a various models according to pressure setup.

CONTENTS

Application	1
Features	1
Specifications	1~3
Dimensions	3

APPLICATION

This switch is used in motitoring flowing of air by differential pressure in HVAC or Gas burner. This switch has application to sensing of exhaust gas in oil, gas boiler and fan heater.

SPECIFICATIONS

Туре	: Differential pressure type			
Sensing fluid	: Air			
	: Switching Voltage	AC eff. min. 24V max. 250V DC min. 24V max. 48V		
	: Nominal current	AC eff. max. 6A		
Electrical ratings	: Switching current	AC eff. max. 4 A at cos φ 1 AC eff. max. 2 A at cos φ 0,6 AC eff. min. 20 mA DC min. 20 mA, DC max. 100mA DC		
Allowable temperature	: −15 ~ 60℃			
Max. Permissible pressure	: 500 mbar (In rush pressure)			
Mounting	: 3 locating holes 4.2 for M4 locating screws.			
	: Body		Aluminium die casting	
	: Diaphragm		H-NBR	
Material	: Switching contact		Ag (Standard),	
	Switch part		Polyamide	

SPECIFICATIONS

Model		AAPS-3V	AAPS-5V	AAPS-10V
Operating pressure rar	nge	: 0.4 ~ 3 mbar : 0.5 ~ 5 mbar : 2 ~ 10 mbar		
(∠ P)		: ≤ 0.3 mbar	: ≤ 0.4 mbar	: ≤ 0.7 mbar
Leak tightness		: 120 cm²/h (Pressure condition 100mbar))		
Humidity		: RH 0 ~ 80%		
Shock		: 5G		
Constant resistance		: Initial, 150 m Ω (Max)		
Insulation resistance	resistance : 100 MΩ, Min. DC500V Megger			
Dielectric strength	Terminal - Terminal	: 800 VAC/1 min		
	Terminal - Earth	: 1500 VAC/1 min		
Mechanical life cycle		: 200,000 Cycle		
Electrical life cycle		: 100,000 Cycle		
IEC-529 Standard		: IP 54		
Air connection		: HIGH: PF1/4", LOW: PT1/8"		
Electrical connection		: Screw terminals via M18X1 conduit connection		
Schematic 1	Definition of switching difference Δp The switching difference Δp is the pressure difference between the upper and lower switching pressures. Pressure at meter Setting tolerance ± 15% Upper switching pressure Lower switching pressure			Lower switching
Schematic 2		Normal: 1 NC closes 2 NO opens 2 NO COM 3 1 NC p	Upper switching pressure As pressure rises: 1 NC opens 2 NO closes 2 NO COM 3 1 NC PIC 2	Lower switching pressure As pressure falls: 1 NC closes 2 NO opens 2 NO 3 1 NC p PIC 3

AIR PRESSURE SWITCH(VARIABLE)

Installation	Standard diaphragm vertical (factory setting) It has a little different value according to installation angle. In the case of horizontal installation, it has higher operationg pressure than vertical.
Warranty	: 1 year
Weight	: 187g

Notice

In case of following circumstance, we recommend to discuss with us before using.

- 1. Only use silicone tube which have been sufficiently cured.
- 2. Vapours containing silicone can adversely affect the functioning of electrical contacts. In the case of low switching capacities such as 24V, less than 20mA, for example, we recommend using RC module or electronic switch(no-contact swithch) in air containing silicone or oil.

In case of high humidity or aggressive gas components (H2S), we recommend using a pressure switch with gold contact

Closed-circuit current monitoring is recommended under difficult operating conditions.

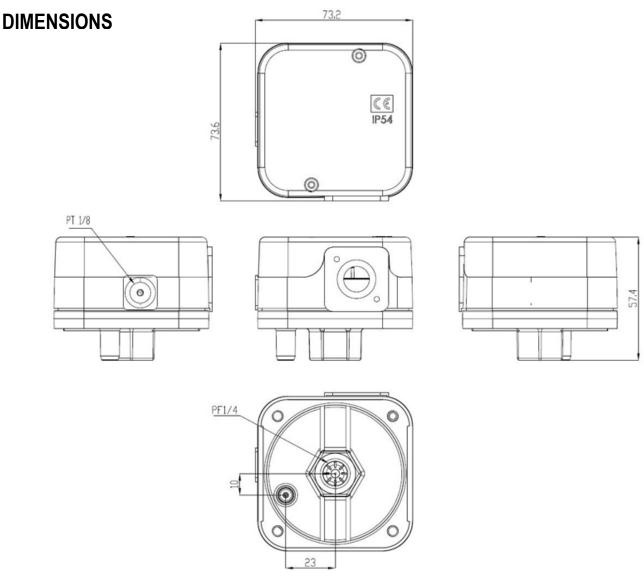


Fig 1. Air pressure switch(SAPS...V)

The specifications and dimensions can be changed without warning