





- Low Pressure
- Media Contact Material: Gold/Silver alloy
- -20-125°C Operating Temperature
- SPST (N/O or N/C), SPDT
- .5-150 psi pressure ranges
- Long Life Diaphragm
- Media Liquid, Air, & Gas
- IP54

## DESCRIPTION

Steam Pressure Switch PSW01 is designed for control pressure with higher current capacity.

It is widely used in steam cleaner, steam iron and other pressure control system.

It provides SPST or SPDT contact form and switch deadband (also referred to as mechanical differential or hysteresis).

The design is simple, cost effective, and proves reliable for OEM customers. Please contact us for Custom design availability.

### **APPLICATIONS**

- Steam Cleaner/Iron
- Hydraulics
- Pumps
- Compressor
- Pneumatic Lines

## Maximum Environmental Ratings

Operating Temperature ......-30°C to 125°C Storage Temperature Range .....-40°C to 125°C 

## **PSW01** Operational Characteristics

$V_{+} = 5V, V_{-} = 0V, Temperature = 25^{\circ}C$					
PARAMETER	SYMBOL	MIN TYP	MAX	UNITS	
Electrical Rating (DC)	VDC	6VDC – 15A 12VDC – 8A 24VDC – 4A		Amps	
Electrical Rating (AC)	VAC	120VAC – 1A 240VAC5A		Amps	
Proof Pressure		45	145	PSI	
Response Time	t <sub>R</sub>	25	100	ms	
Total Hysteresis(Note 4)		-5	5	%FS	
Operating Temperature Range	С	-35	125	С	

# **Application Information**

#### Package

The one piece body design is made of stainless steel (SS316L), which allows for easy manufacturability and long term stability. Automotive grade vibration proof design for engine mount.

## Stability

The silicon MEMS pressure sensor element is mounted to a ceramic base and sealed into the SS housing. The selection of thermally capability materials reduce the mechanical stress on the sensor resulting in greater stability over time and temperature.

Additional stability is gained from factory stabilization of all sensors.

### **Pressure port**

1/4" -18NPT and 1/8"-18NPT threads are standard SS fittings. Other port fittings such as 7/16-20UNF, and  $\frac{1}{4}$ " BSP are available for OEM customers.

#### Media

The pressure port is tolerant to most media including but not limited to oil, air, gas, some corrosive media, and salt water.

### Wetted parts

When checking media capability, the wetted surface is composed of only Silver Alloy.

#### **Pressure ranges**

Standard pressure ranges are 5, 30, 50, 100, and 150 psi. Custom pressure ranges are available for OEM customers.



# Part Number Configuration



# Standard Part Numbers

Model	Pressure Range PSI	Туре	Max Over Pressure
PSW01-06-80-1-6-C	73-131	Normally Closed	150
PSW01-05-50-1-6-C	44-102	Normally Closed	150

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