

Model PSO

General Purpose Pressure Switches

Description

The PSO model, the sensing element, has excellent temperature properties by adopting a self temperature compensation foil strain gauge. A diaphragm and a pressure port thereof are composed as one body for the prevention of leakage. It is also durable to an instant over pressure. It can control the system without any controller due to the output of a 1 or 2 channel NPN open collector switch.

Features

- ▶ Electrical pressure switch with no mechanical moving part
- ▶ Fast response 1ms
- ▶ Measuring range 0~500kgf/cm²g
- ▶ One or two pressure setting points
- ▶ Self temperature compensation foil strain gauge
- ▶ Stainless steel media-wetted materials

Applications

- ▶ Process control
- ▶ Hydraulics & Pneumatic
- ▶ Compressor Control
- ▶ Chillers
- ▶ Refrigeration Equipment

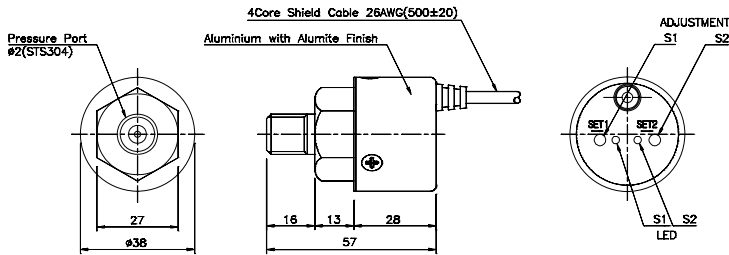
Specifications



	PSOU	PSOW
Range	0~10, 20, 30, 50, 100, 200, 300, 350, 500kgf/cm ²	
Performance		
Accuracy	±1%FS	
Hysteresis	±3%FS	
Thermal Effect on Zero	±0.1%FS/°C	
Thermal Effect on Span	±0.1%FS/°C	
Compensated Temperature Range	-10 ~ 70°C	
Operating Temperature Range	-20 ~ 80°C	
Electrical		
Excitation	11 ~ 28VDC	
Output	1 Channel NPN Open Collector Hysteresis adjustable(2~10%)	2 Channel NPN Open Collector —
Switch Load Current	28V 80mA Max.	
Electrical Connection	Cable	
Physical		
Proof Pressure	150%FS Max.	
Burst Pressure	200%FS Min.	
Vibration	49.1m/s ² {5G}, 10~500Hz	
Shock	490m/s ² {50G}	
Pressure port	PT1/8", PF1/8", PT1/4", PF1/4", PT 3/8", PF 3/8"	
Media-Wetted Materials	Stainless Steel 304, 630	
Weight	Approx. 150g (include cable 50cm)	

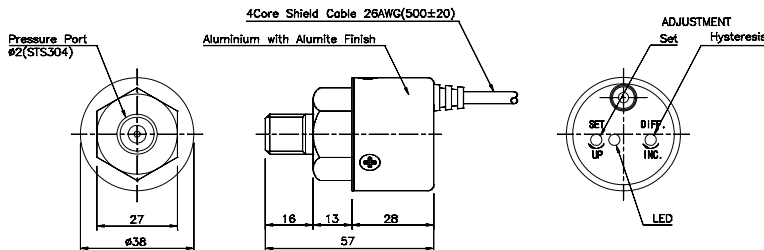
Dimension

► PSOW Type



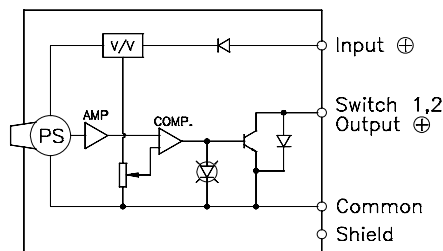
Wire Color	Connections
Red	Input ⊕
Black	Common ⊖
Green	Switch Output 1 ⊕
White	Switch Output 2 ⊕
Shield	Earth

► PSOU Type



Wire Color	Connections
Red	Input ⊕
White	Common ⊖
Yellow	Switch Output ⊕
Shield	Earth

Internal Circuit Diagram



Ordering Information

Model Name		Option	
PSO	U	0010	K A C A
Output		Connecting Methods	
U : Switch 1, Hysteresis adjustable		C : Cable	
W : Switch 1,2		Pressure port	
Pressure Range		Pressure Unit	
0010 : 0~10kgf/cm ²	0350 : 0~350kgf/cm ²	K : kgf/cm ²	B : bar
0020 : 0~20kgf/cm ²	0500 : 0~500kgf/cm ²	P : psi	M : MPa
0030 : 0~30kgf/cm ²	CXXX : Compound Pressure		
0050 : 0~50kgf/cm ²			
0100 : 0~100kgf/cm ²			
0200 : 0~200kgf/cm ²			
0300 : 0~300kgf/cm ²			

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· Specifications are subject to change without notice.