

**Air Checker  
Electronic Pressure Switch**

**Series PS1000**

(For positive pressure)

**PS1100**

(For vacuum)

For General Pneumatics



Small, lightweight  
electronic pressure switch

**Extremely compact** (1/3 size comparing with series ZSE2)

13W X 10H X 30L (mm) (Standard type without connection part)

**2 wire switch**

Applicable to either NPN or PNP output.

**Easy mounting**

Plug-in port for One-touch fittings.

**Wide calibration range**

Calibration:  $-0.1$  to  $0.45$ MPa is possible  
with one pressure switch.

**High visibility**

A large LED indicator for high visibility.

## How to Order

PS  00 — R06 L — Q

**Output specifications**

<b>10</b>	2 wire system (for positive pressure)
<b>11</b>	2 wire system (for vacuum and residual pressure)

**Lead wire length**

<b>L</b>	3m
----------	----

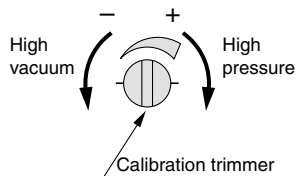
**Port size**

<b>R06</b>	ø6 reducer
<b>R07</b>	1/4 inch reducer

**Switch specifications**

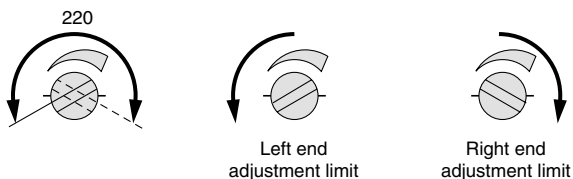
## Pressure Switch Calibration

- Use the calibration adjustment to set ON pressure.
- Rotate clockwise to increase pressure setpoint. For setting vacuum, rotate counterclockwise.
- Use a bladed screw driver to adjust the setpoint.



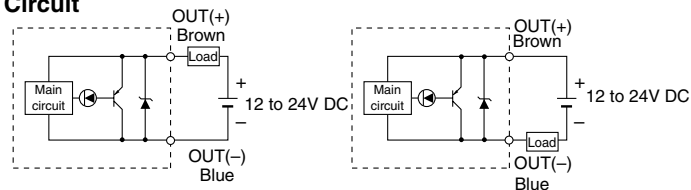
## Trimmer

Rotation angle of the trimmer is 220°. There is a stop provided to prevent the trimmer to rotate beyond its limits. Rotation beyond the limit can damage the trimmer. Adjust the trimmer gently within the rotation angle.

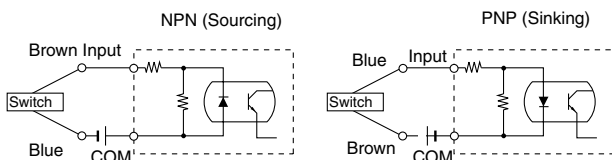


## Internal Circuit/Wiring

### Circuit



### Example connection with a PLC



## Specifications

Model	PS1000-□L	PS1100-□L
Switch output	Present prss. Setting prss.: ON	Present prss. Setting prss.: ON
Max. pressure	1MPa	
Oper. Press. range	-0.1 to 0.45MPa	-0.1 to 0.4MPa
Fluid	Air, Non corrosive gas	
Operating display	ON: When red LED turns on	
Temp. specs.	3% F.S. or less	
Repeatability	1% F.S. or less	
Hysteresis	4% F.S.	
Load voltage	12 to 24V DC (Ripple 10% or less)	
Load current	5 to 40mA	
Leakage	1mA or less	
Int. voltage drop	5V or less	
Operating temp. range	0 to 60C (No condensation)	
Insulation resistance	Between external terminals and case 2MΩ (500V DC at megameter)	
Voltage resistance	Between external terminals and case 1000V AC 50/60Hz for 1 min.	
Vibration resistance	10 to 500Hz Pulse width 1.5mm or acceleration 98m/s <sup>2</sup> (at the smaller vibration) in X, Y, Z directions (2 hours)	
Shock resistance	980m/s <sup>2</sup> X, Y, Z directions (3 times for each direction)	
Weight	5g (Excluding lead wire)	
Port size	ø6 reducer, 1/4 inch reducer	
Construction	IP40	
Lead wire	Grommet oil-proof cabtire cord 2 wires ø2.55, 0.18mm <sup>2</sup> , 3m	

## Dimensions

