

Air Checker: Electronic Pressure Switch

Series **PS1000** (For Vacuum) / **PS1100** (For Positive Pressure)

For General Pneumatics



Small, lightweight electronic pressure switch



ZSE
ISE

ZSP

PS

ISA

PSE

IS

ISG

ZSM

Extremely compact (1/3 size as compared to Series ZSE2)

13W x 10H x 30L (mm)
<Standard type without connection part>

2-wire type

Applicable to either NPN or PNP output.

Easy mounting

Plug-in port for One-touch fittings.

Wide calibration range

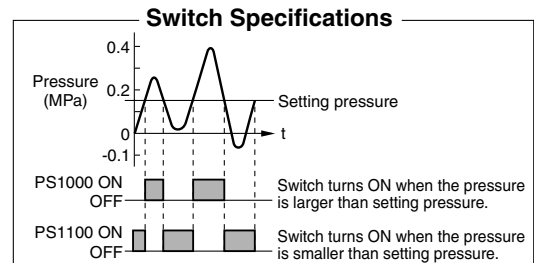
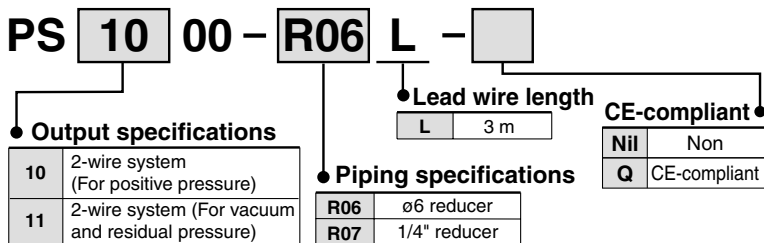
Calibration: -0.1 to 0.45 MPa is possible with one pressure switch.

High visibility

A large LED indicator for high visibility.

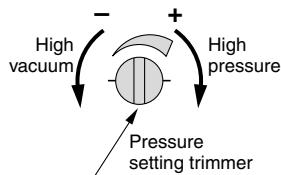
Air Checker: Electronic Pressure Switch Series *PS1000/1100*

How to Order



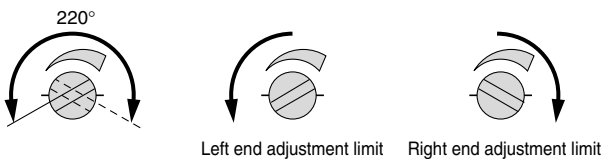
Pressure Switch Calibration

- Use the calibration adjustment to set ON pressure.
- Rotate clockwise to increase the set pressure. For setting vacuum, rotate counterclockwise.
- In the event of setting, use a flat head screwdriver suited for the groove of a trimmer, and rotate it lightly with a finger tip.



Trimmer

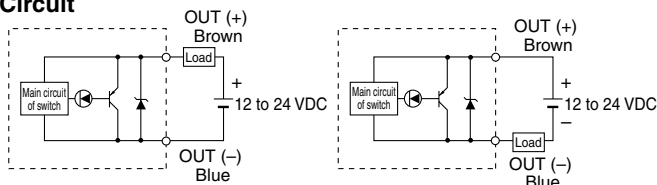
Rotation angle of the trimmer is 220°. There is a stop provided to prevent the trimmer from rotating beyond its limits. Rotation beyond the limit can damage the trimmer. Adjust the trimmer gently within the rotation angle.



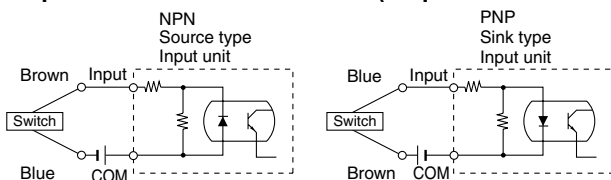
Internal Circuit/Wiring

Lead wire colors inside () are those prior to conformity to IEC standards.

Circuit



Example of connection with a PLC (Sequence controller)



Specifications

Model	PS1000	PS1100
Switch output	Present pres. ≥ Setting pres.: ON	Present pres. < Setting pres.: ON
Max. operating pressure	1 MPa	
Regulating pressure range	-0.1 to 0.45 MPa	-0.1 to 0.4 MPa
Fluid	Air/Non-crossive non-flammable gas	
Indication light	ON: When red LED turns on	
Temperature characteristics	±3% F.S. or less	
Repeatability	±1% F.S. or less	
Hysteresis	4% F.S.	
Load voltage	12 to 24 VDC ±10%, Ripple (p-p) 10% or less	
Load current	5 to 40 mA	
Leakage	1 mA or less	
Int. voltage drop	5 V or less	
Operating temperature range	0 to 60°C (With no condensation)	
Insulation resistance	2 MΩ or more (at 500 VDC by megameter) between live parts and case	
Withstand voltage	1000 VAC in 50/60 Hz for 1 minute between live parts and case	
Vibration resistance	10 to 500 Hz Pulse width 1.5 mm or acceleration 98 m/s ² (at the smaller vibration) in X, Y, Z directions (2 hours) (De-energized)	
Impact resistance	980 m/s ² X, Y, Z directions (3 times for each direction) (De-energized)	
Mass	5 g (Excluding lead wire)	
Port size	R06: ø6 reducer, R07: 1/4" reducer	
Enclosure	IP40	
Lead wire	Grommet oil-resistant vinyl cabtire code 2 cores, ø2.55, 3 m, Cross section: 0.18 mm ² , Insulator O.D.: 0.96 mm	
Wetted part material	Pressured sensor part: Silicon, Body part: PBT, O-ring: NBR	

Dimensions

