

# Air Checker: Electronic Pressure Switch

New

RoHS

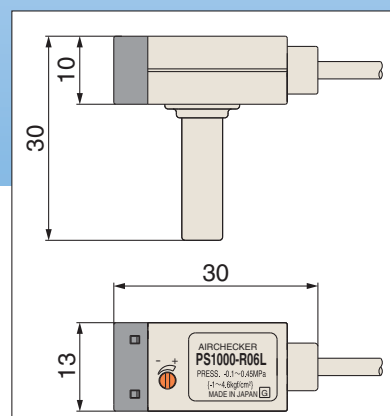
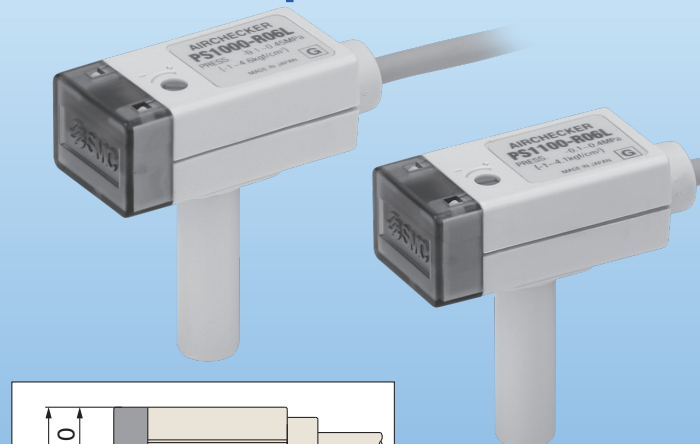
Applicable fluid: Air, Non-corrosive gas, Non-flammable gas

**PS1000** For Positive Pressure

**PS1100** For Vacuum, Residual Pressure

**PS1200** For Vacuum

Compact/lightweight  
electronic pressure switch

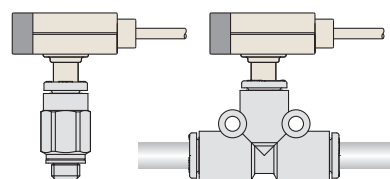


## 2-wire type

Applicable to either NPN or PNP output

## Easy mounting

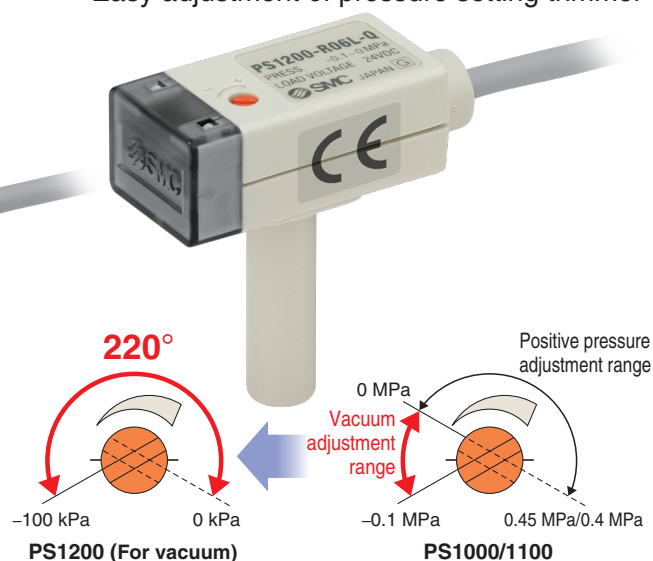
Plug-in reducer port for  
One-touch fittings



## High visibility

A large LED display for an easily  
visible switch

**New Addition of vacuum range (-100 to 0 kPa)**  
Easy adjustment of pressure setting trimmer



Find the operation manual on our website [www.smc.eu](http://www.smc.eu) for  
specific product precautions.

## Specifications

| Model                       | PS1000                                                                                                                             | PS1100          | PS1200           |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|
| Switch output               | Present pres. $\geq$ Setting pres.: ON                                                                                             |                 |                  |
| Max. operating pressure     | 1 MPa                                                                                                                              |                 |                  |
| Set pressure range          | -0.1 to 0.45 MPa                                                                                                                   | -0.1 to 0.4 MPa | -100 to 0 kPa    |
| Fluid                       | Air/Non-corrosive gas/Non-flammable gas                                                                                            |                 |                  |
| Indicator light             | ON: When red LED turns on                                                                                                          |                 |                  |
| Temperature characteristics | $\pm 3\%$ F.S.                                                                                                                     |                 |                  |
| Repeatability               | $\pm 1\%$ F.S.                                                                                                                     |                 |                  |
| Hysteresis                  | 4% F.S. or less                                                                                                                    |                 | 10% F.S. or less |
| Load voltage                | 12 to 24 VDC $\pm 10\%$ , Ripple (p-p) 10% or less                                                                                 |                 |                  |
| Load current                | 5 to 40 mA                                                                                                                         |                 |                  |
| Leakage current             | 1 mA or less                                                                                                                       |                 |                  |
| Internal voltage drop       | 5 V or less                                                                                                                        |                 |                  |
| Operating temperature range | 0 to 60°C (No condensation)                                                                                                        |                 |                  |
| Insulation resistance       | 2 M $\Omega$ or more (500 VDC measured via megohmmeter) between terminals and housing                                              |                 |                  |
| Withstand voltage           | 1000 VAC (in 50/60 Hz) for 1 minute between terminals and housing                                                                  |                 |                  |
| Weight                      | 5 g (Excluding lead wire)                                                                                                          |                 |                  |
| Port size                   | R06: $\phi 6$ reducer, R07: 1/4" reducer                                                                                           |                 |                  |
| Enclosure                   | IP40                                                                                                                               |                 |                  |
| Lead wire (Note)            | Grommet oil-resistant vinyl cabtire code 2 cores, $\phi 2.55$ , 3 m, Cross section: 0.18 mm <sup>2</sup> , Insulator O.D.: 0.96 mm |                 |                  |
| Wetted parts material       | Pressured sensor part: Silicon, Body part: PBT, O-ring: HNBR                                                                       |                 |                  |
| Standards                   | CE (Option), RoHS                                                                                                                  |                 |                  |

Note) For wiring, refer to the Operation Manual on our website, <http://www.smc.eu>

Series **PS1000/1100/1200**



CAT.EUS100-23B-UK

## How to Order

PS 10 00 - R06 L - Q

### Output specifications

|    |                                  |
|----|----------------------------------|
| 10 | For positive pressure            |
| 11 | For vacuum and residual pressure |
| 12 | For vacuum                       |

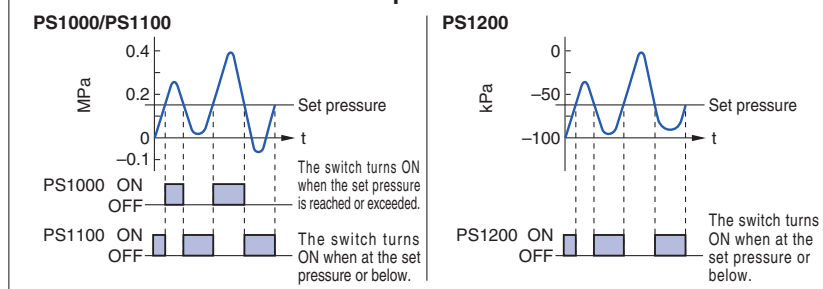
### Lead wire length

|   |     |
|---|-----|
| L | 3 m |
|---|-----|

### Piping specifications

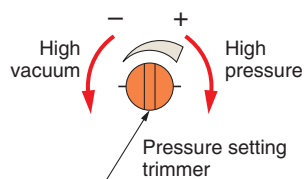
|     |              |
|-----|--------------|
| R06 | ø6 reducer   |
| R07 | 1/4" reducer |

### Switch Specifications



## Setting of Pressure Switch

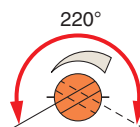
- Use the pressure setting trimmer to set ON pressure.
- Rotate clockwise to increase the set pressure. For setting vacuum, rotate counterclockwise.
- To set, use a flat head screwdriver suited for the groove of the trimmer, and rotate it lightly with finger tip.



## Trimmer

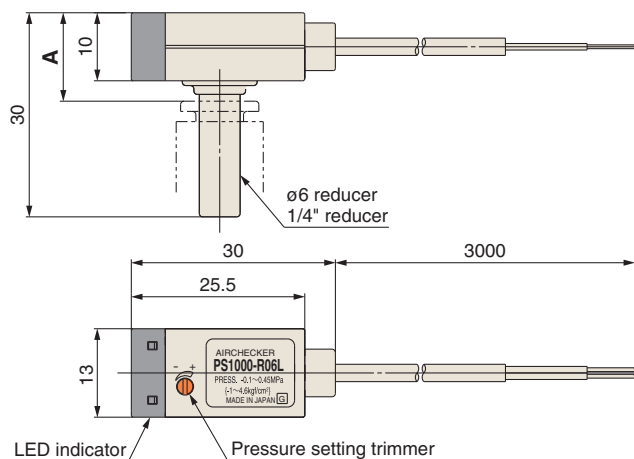
Rotation angle of the trimmer is 220°.

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.



Left end adjustment limit Right end adjustment limit

## Dimensions



### Dimensions

| Applicable One-touch fittings | A  |
|-------------------------------|----|
| KQ2H/L/T/S/Y06-M5             | 16 |
| KQ2H/L07-M5                   | 16 |
| Other Series KQ2/KS           | 13 |
| Series KJ                     | 16 |

## SMC Corporation

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