

## PL-PSA

### Liquid Static Pressure Switch



#### Features:

- Adjustable pressure range
- Narrow adjustable differential depending on model
- Range and differential pointer units in bar and psig
- High rated SPDT contacts
- Shatter resistant contacts
- Captive terminal and cover screws

#### Technical Overview

The PL-PSA series of liquid pressure switches are suitable for the monitoring of flow failure in pumps, chillers, valves etc. Adjustable set point with adjustable differential.

The PL-PSA range has a dial to show the liquid pressure. It is not recommended that this dial be used for accurate setting of the switch position.

## Specification:

### Range:

PL-PSA1	-0.75 to 3 bar
PL-PSA2	-0.8 to 1.5 bar
PL-PSA3	-0.5 to 7 bar

### Differential:

PL-PSA1	0.25 to 2 bar
PL-PSA2	0.2 to 1 bar
PL-PSA3	0.5 to 5 bar

Pressure connections ¼" BSP Male

Operating pressure -0.9 to 31 bar

Ambient temperature -50°C to +70°C

Liquid temperature -50°C to +70°C

Switch rating 24A @ 230Vac resistive,  
10A @ 230Vac inductive

Vibration resistance 4g (10...1000Hz)

Protection IP44

Dimensions 85 x 42 x 75mm

Country of origin Czech Republic

## Part Codes:

### PL-PSA1

Static pressure switch, -0.75 to 3 bar

### PL-PSA2

Static pressure switch, -0.8 to 1.5 bar

### PL-PSA3

Static pressure switch, -0.5 to 7 bar

### Accessories

### BRK

Wall mounting bracket for PL-PSA



The products referred to in this data sheet meet the requirements of 2006/95/EC



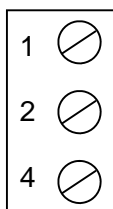
### Warning!

When installed, the output contacts may carry 240Vac. Special care must be taken to isolate the switched voltage prior to any work being undertaken.

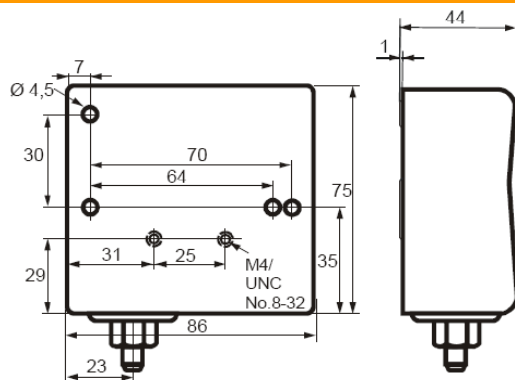
## Installation & Connections:

1. The PL-PSA should only be installed by a competent, suitably trained technician, experienced in installation with hazardous voltages. (>50Vac & <1000Vac or >75Vdc & 1500Vdc)
2. Ensure that all power is disconnected before carrying out any work on the PL-PSA and that the unit is not subjected to ingress by water.
3. Mount the PL-PSA directly to a flat surface or using the optional mounting bracket (BRK) using the screws supplied. CAUTION: If other screws are used, ensure that they do not penetrate into the control more than 8mm.
4. It is important that the switch is mounted vertically, failure to do so could affect the accuracy of the switching point.
5. Connect pipe work using the 1/4" BSP male thread.
6. Feed the electrical cable through the rubber grommet, alternatively this can be replaced with a standard PG 13.5 cable gland and make electrical connections as required (terminal torque settings 1.2Nm max.).
7. Set the switching point and differential by adjusting the screws on top of the PL-PSA  
**It is not recommended that the scale is not used for accurate setting of the switch position.**
8. To test the pressure switch use the check-out lever to manually override the electrical contact position.

- |   |                  |
|---|------------------|
| 1 | Common           |
| 2 | Rising pressure  |
| 4 | Falling pressure |



## Dimensions:



Whilst every effort has been made to ensure the accuracy of this specification, Sontay cannot accept responsibility for damage, injury, loss or expense from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.

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