

Liquid Pressure Switches



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

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

Product Codes

PL-PSA1

DP Switch, -0.75 to 3 bar

PL-PSA2

DP Switch, -0.8 to 1.5 bar

PL-PSA3

DP Switch, -0.5 to 7 bar

Accessories

BRK

Wall mounting bracket for PL-PSAx

Technical Overview

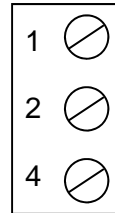
The PL-PSA series of liquid pressure switches are suitable for the monitoring of flow failure in pumps, chillers, valves etc. Adjustable setpoint with adjustable differential.

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.

Installation

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.
3. Ensure that the unit is not subjected to ingress by water.
4. 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.
5. It is important that the switch is mounted vertically, failure to do so could effect the accuracy of the switching point.
6. Connect pipe work using the ¼" BSP male thread.
7. Feed the electrical cable through the rubber grommet, alternatively this can be replaced with a standard PG 13.5 cable gland.
8. Make electrical connections as required (terminal torque settings 1.2Nm max.).
9. 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.
10. To test the pressure switch use the check-out lever to manually override the electrical contact position.

Connections



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

Dimensions

