

PL-625

Liquid Static Pressure Switch



Features:

- Suitable for water, steam or air
- Robust construction
- Adjustable switching differences
- ¼" BSP connection

Technical Overview

The PL-625 range of pressure switches is suitable for use with liquids and gases. The unit has adjustable switching threshold.

Reproducibility is $\pm 10\%$ of the switching point.

The rugged mechanics are the assurance of high operating reliability, even in the presence of percussions or vibrations.

Specification:

Pressure ranges:	
PL-625-2.2	120 to 2200 mbar (1.7 to 31.9 psi)
PL-625-6	1000 to 6000 mbar (14.5 to 87 psi)
Max. test pressure	10 bar
Max. operating pressure	1 ½ x range
Smallest switching diff.	110 mbar
Pressure connection	¼" BSP
Media	Water, air, steam (with pig tail)
Electrical rating	6A (3A) @ 250Vac
Electrical connections	Screw terminals & AMP 6.3mm
Contact system	Changeover contact
Materials:	
Switch case	Fibreglass reinforced plastic
Diaphragm	EPDM
Pressure case	Brass
Dimensions	98 x 65mm (3.86 x 2.56")
Protection	IP54
Service life	10 ⁶ switching cycles, if the permitted switching difference is respected
Operating range	-10 to +80°C (14 to 176°F)
Origin	Switzerland

Part Codes:

PL-625-2.2	Liquid pressure switch 0.12 to 2.2 bar
PL-625-6	Liquid pressure switch 1 to 6 bar



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

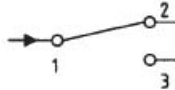


Warning!
When installed, the output contacts may carry 240Vac. Special care must be taken to isolate the switched voltage prior to any work being undertaken.

Installation, Connections & Setting of Switching Points:

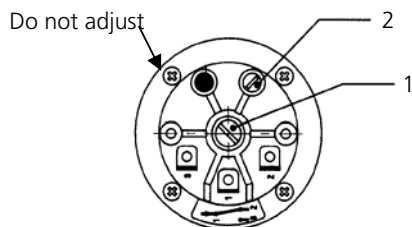
1. The PL-625 should only be installed by a competent, suitably trained technician, experienced in installation with hazardous voltages. (>50Vac & <1000Vac or >75Vdc & 1500Vdc)
2. Ensure that all power is disconnected before carrying out any work on the PL-625.
3. Ensure that the unit is not subjected to ingress by water.
4. The PL-625 will operate in any orientation, but would preferably be mounted in the vertical position.
5. Connect pipe work using a ¼ " BSP female adapter onto the ¼ " BSP male connector on the switch.

- | | |
|---|------------|
| 1 | Common |
| 2 | NC Contact |
| 3 | NO Contact |



Adjustment of switching points;

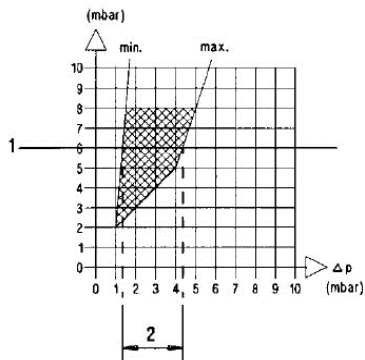
1. For the lower switching point (lower pressure) adjust in clockwise direction. To adjust lower turn counter clockwise.
2. Do not adjust sealed screw, this will void the warranty.
3. Allow pressure to decrease slowly and adjust lower switching point with the main adjusting screw (1). Increase pressure slowly and measure upper switching point.
4. If the upper switching point is too high (switching differential too large) turn adjusting screw (2) clockwise until the desired upper switching point is adjusted.
5. If the upper switching point is too low, turn adjusting screw (2) counter clockwise until the desired upper switching point is adjusted.
6. By raising and lowering the pressure several times check the upper and lower switching points and correct adjustment if necessary.
7. After adjustment secure all adjusting screws (1,2) with varnish.



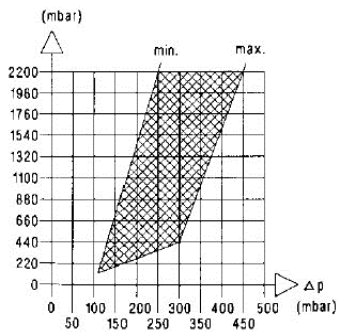
Example of Reading measurement Values:

Enter upper switching point e.g. 6 mbar.

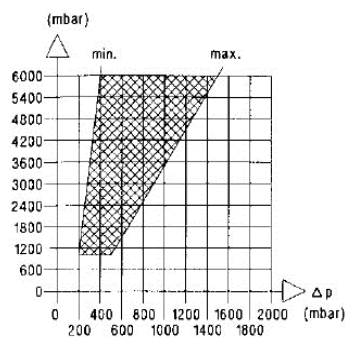
Read the available, adjustable switching difference (in the example 1,4,-4 mbar).



PL-625-2.2:



PL-625-6:



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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