

## INTRODUCTION

The pressure switch is a cost effective pressure monitoring solution for liquids and non-aggressive gases. The compact design and rugged construction makes the pressure switch suitable for monitoring pumps, chills, valves, etc. The unit has an adjustable set-point with adjustable differential and comes complete with a dial to show the liquid pressure.

## WARNING

**The pressure switch is for use in systems under pressure and should be installed in accordance with practices relevant to the intended use and be installed by a qualified technician in accordance with local regulations and guidelines for the equipment to which it is to be connected. Disconnect the power before openin the cover.**

## INSTALLATION

The pressure switch should be mounted on a wall or other suitable surface using the supplied mounting bracket. See Figure 1.

The piping should then be installed to the unit and terminated at the pressure port using the 1/4" NPT fittings and Teflon sealant tape. It is the responsibility of the installer to ensure that the piping is suitable for the system pressure. See Figure 2.

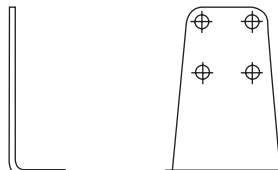
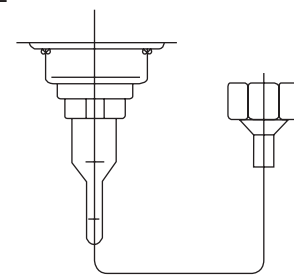
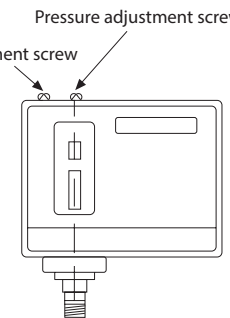
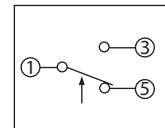
The pressure switch has a range of -0.5 to 6 Bar (-7.25 to 87 PSI) with a differential that can be set between 0.6 to 4 Bar (8.7 to 58 PSI). Factory settings are Off: 3 Bar (43.5 PSI) and On: 2 Bar (29 PSI).

To set the desired pressure differential, adjust the adjustment screws on the top until desired settings are reached on the front scale as shown in Figure 3.

The switch contacts are marked 1, 3, & 5. Reaching the preset switch point on rising pressure, contacts 1 & 5 close. Reaching the preset switch point on falling pressure, contacts 1 & 3 close. See Figure 4.

For contact ratings see Figure 5.

After all installation and wiring is complete apply pressure and check for leaks.

| <p><b>Figure 1</b></p>    | <p><b>Figure 2</b></p>  | <p><b>Figure 3</b></p>  |         |                            |   |                            |   |  |  |                   |  |         |         |                |                       |  |     |     |                   |           |     |    |              |     |  |
|--|---|--|---------|----------------------------|---|----------------------------|---|--|--|-------------------|--|---------|---------|----------------|-----------------------|--|-----|-----|-------------------|-----------|-----|----|--------------|-----|--|
| <p><b>Figure 4</b></p> <p><b>CONTACT FUNCTION</b></p>  <table border="1" data-bbox="292 1743 584 1869"> <tr> <td>1</td> <td>Common Terminal</td> </tr> <tr> <td>3</td> <td>Close on Pressure Increase</td> </tr> <tr> <td>5</td> <td>Close on Pressure Decrease</td> </tr> </table> <p>↑: Operating direction on pressure increase at high pressure side.</p> | 1   | Common Terminal  | 3       | Close on Pressure Increase | 5 | Close on Pressure Decrease | <p><b>Figure 5</b></p> <p><b>CONTACT RATING</b></p> <table border="1" data-bbox="633 1764 1494 1911"> <thead> <tr> <th colspan="2" rowspan="2"></th> <th colspan="2">RATED VOLTAGE (V)</th> </tr> <tr> <th>125 VAC</th> <th>250 VAC</th> </tr> </thead> <tbody> <tr> <th rowspan="3">RATED AMPS (A)</th> <th colspan="2">Non-Inductive Current</th> <td>20A</td> <td>10A</td> </tr> <tr> <th rowspan="2">Inductive Current</th> <th>Full Load</th> <td>15A</td> <td>8A</td> </tr> <tr> <th>Locked Rotor</th> <td colspan="2">72A</td> </tr> </tbody> </table> |  |  | RATED VOLTAGE (V) |  | 125 VAC | 250 VAC | RATED AMPS (A) | Non-Inductive Current |  | 20A | 10A | Inductive Current | Full Load | 15A | 8A | Locked Rotor | 72A |  |
| 1  | Common Terminal   |  |         |                            |   |                            |   |  |  |                   |  |         |         |                |                       |  |     |     |                   |           |     |    |              |     |  |
| 3  | Close on Pressure Increase  |  |         |                            |   |                            |   |  |  |                   |  |         |         |                |                       |  |     |     |                   |           |     |    |              |     |  |
| 5  | Close on Pressure Decrease  |  |         |                            |   |                            |   |  |  |                   |  |         |         |                |                       |  |     |     |                   |           |     |    |              |     |  |
|  |   | RATED VOLTAGE (V)  |         |                            |   |                            |   |  |  |                   |  |         |         |                |                       |  |     |     |                   |           |     |    |              |     |  |
|  |   | 125 VAC  | 250 VAC |                            |   |                            |   |  |  |                   |  |         |         |                |                       |  |     |     |                   |           |     |    |              |     |  |
| RATED AMPS (A)   | Non-Inductive Current   |  | 20A     | 10A                        |   |                            |   |  |  |                   |  |         |         |                |                       |  |     |     |                   |           |     |    |              |     |  |
|  | Inductive Current   | Full Load  | 15A     | 8A                         |   |                            |   |  |  |                   |  |         |         |                |                       |  |     |     |                   |           |     |    |              |     |  |
|  |   | Locked Rotor   | 72A     |                            |   |                            |   |  |  |                   |  |         |         |                |                       |  |     |     |                   |           |     |    |              |     |  |

## SPECIFICATIONS

|                            |   |
|----------------------------|---|
| Range.....                 | -0.5 to 6 Bar (-7.25 to 87 PSI)                       |
| Max Working Pressure ..... | 16.5 Bar (239PSI)                                     |
| Differential .....         | 0.6 to 4 Bar (8.7 to 58 PSI)                          |
| Factory Settings .....     | Off: 3 Bar (43.5 PSI)<br>On: 2 Bar (29 PSI)           |
| Reset.....                 | Automatic   |
| Pressure Connection .....  | 1/4" NPT  |
| Contact Rating.....        | See figure 5  |
| Fluid Temperature .....    | -20 to 120°C (-4 to 248°F)                            |
| Protection.....            | IP44  |
| Dimensions.....            | 80mm W x 63.2mm H x 50mm D<br>(3.25" x 2.48" x 1.96") |
| Approvals .....            | CE  |

## DIMENSIONS

