

INTRODUCTION

The differential pressure switch is a cost effective pressure monitoring solution for liquids and non-aggressive gases. The unit is designed for both flow failure detection to cover the range of 0.5 to 3.5 Bar (7.25 to 50.75 PSI). Approximate set-point can be viewed on the dial at the front of the unit.

WARNING

The differential 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 opening 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 ports using the 1/4" NPT fittings and Teflon sealant tape. See Figure 2. The top port is the low port and the bottom port is the high port as shown in Figure 3. It is the responsibility of the installer to ensure that the piping is suitable for the system pressure.

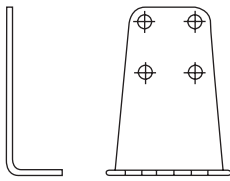
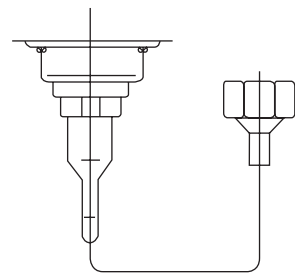
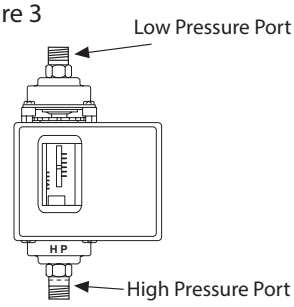
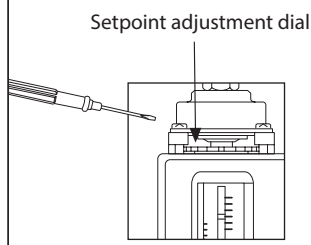
The differential pressure switch has a range of 0.5 to 3.5 Bar (7.25 to 50.75 PSI). Factory settings are 1 Bar (14.5 PSI).

To set the desired pressure differential, use a standard screwdriver to adjust the setpoint dial until the desired setting is reached on the front scale as shown in Figure 4.

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

For contact ratings see Figure 6.

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

<p>Figure 1</p> 	<p>Figure 2</p> 	<p>Figure 3</p> 	<p>Figure 4</p> 																								
<p>Figure 5</p> <p>CONTACT FUNCTION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">1</td> <td>Common Terminal</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Close on Pressure Increase</td> </tr> <tr> <td style="text-align: center;">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>Figure 6</p> <p>CONTACT RATING</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <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	
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SPECIFICATIONS

Differential	0.5 to 3.5 Bar (7.25 to 50.75 PSI)
	Factory set 1 Bar (14.5 PSI)
Max Working Pressure	30 Bar (435 PSI)
Pressure Connection	1/4" NPT
Contact Rating.....	See chart figure 6
Fluid Temperature	-20 to 120°C (-4 to 248°F)
Operating Temperature.....	-20 to 70°C (-4 to 158°F)
Protection.....	IP33
Dimensions.....	80mm W x 63.2mm H x 50mm D
	(3.25" x 2.48" x 1.96")
Approvals	CE

DIMENSIONS

