

Pressure Switch

PS Type LT1

Installation and Maintenance Manual



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A-General Information and Safety

1.product overview

Pressure switch type PS-LT1 is used to control the amount of pressure inside the watering and pumping systems, tanks, and pressure lines (for temperatures below 70 ° C).this device is designed for controlling the pressure from 15 Psi to 145 Psi .it is suitable from (-10...66 ° C) for ambient temperate. This equipment is installed with a ¼” gear connection.

2. Notes on the device

2.1. Correct operation of the device

The proper operation of the device is guaranteed when some experts according to the principles start to install and set up or repairing.

2.2. Safety principles

Before installing or setting up or repairing be sure about the suitable equipment .please be sure that the selected pressure switch in terms of temperature and pressure is suitable for installing. For selecting in the correct way refer to the technical specification. For improving safety in the places that are in the special situation you can use two devices instead of one.

B- Installation

Before installation, choose a suitable place in terms of access. This kind of pressure switch is usually mounted vertically on the top of the tank from the gear connection. Please be careful about fixing this device from the brass nut use a suitable wrench. Never use the body part for twisting and closing, Use the wrench to fasten as shown below. This device has a ¼” gear connection.

Warning:

As this equipment is installed in tanks and under pressure systems, so be careful when installing this device pay attention that the amount of the thread sufficiently inserts into the connector, otherwise due to the system pressure, the pressure switch may break away from its location and cause damage. By using the wrench you can fix this device as shown in figure 1. When you install this equipment be careful about the temperature of the installation place if it is under 70 °C the pressure switch must be installed directly and at a higher temperature, the pressure switch must be installed with a loop to avoid damaging the pressure switch. If the installation has severe vibration, it should be fitted with a flexible (elastic) tube farther away.

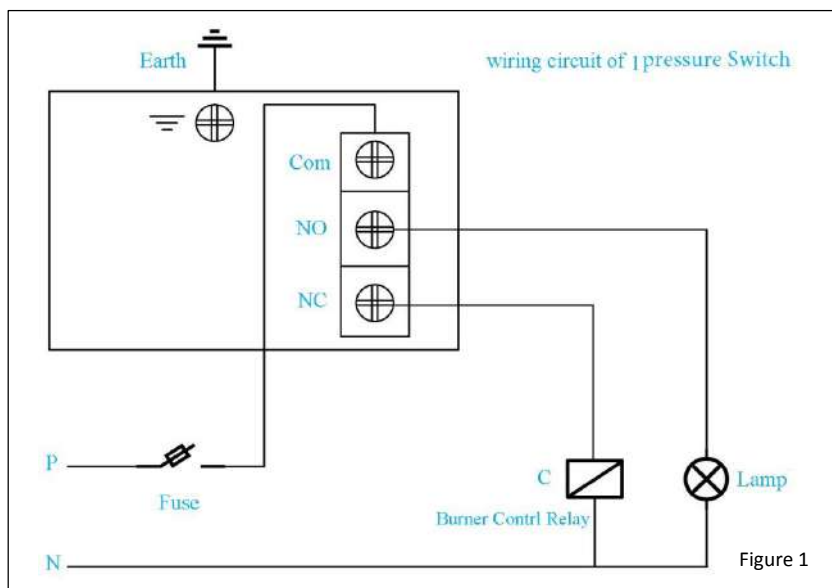
C- Wiring

1. Wiring

The following figures illustrate the wiring circuit. Before starting wiring please disconnect the power supply because of the possibility of electric shock and consequently injury and death.

2. Device setting

At the top of the pressure switch, there are two screws. The first screw that shown as number 7 in figure 1 is used to adjust the pressure in the desired range and the second screw as number 8 in figure 1 is used to adjust the difference in pressure desired to return to the initial status.

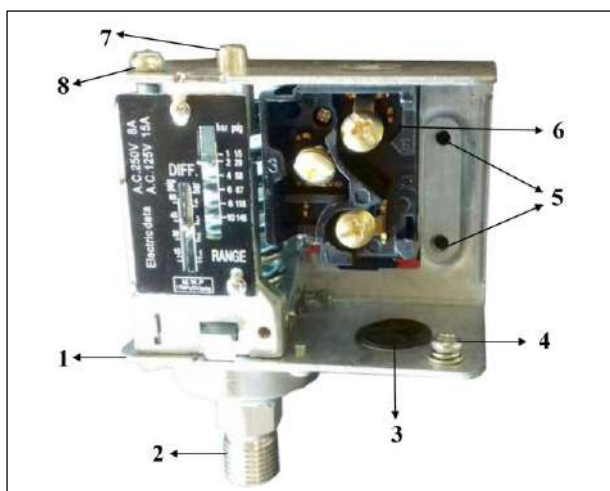


D-Maintenance

There is a plastic cover on this device So be careful not to hit it to prevent it from damaging. Use the technical specifications table to avoid the excessive flow of this equipment or don't occur short circuit and to prevent this equipment from being damaged in terms of electrical current, you must use a suitable fuse in the internal current for preventing damage from the microswitch. Also, do not use this equipment above the pressure stated in the technical specifications table, which will damage the diaphragm assembly if you do not comply.

E- Device Parts

| | |
|--------------------------------------|----------------------------|
| Max working pressure range | 15 ... 145 psi |
| Max. ΔP | 15 ... 60 psi |
| Max working temperature without loop | 70 °C |
| Ingress protection | IP40 |
| connection type and Material | ¼" NPT /MS |
| Body Material | Galvanized |
| Cover Material | Plastic |
| Diaphragm Material | Copper |
| Switch Type | SPDT |
| Switch Capacity | 125V AC 15 A - 250V AC 8 A |



| No | Part Name |
|----|-------------------------------|
| 1 | body |
| 2 | Connection |
| 3 | Microswitch cable conduit |
| 4 | Ground screw |
| 5 | Microswitch cable conduit |
| 6 | Microswitch |
| 7 | Pressure adjustment screw |
| 8 | Differential adjustment screw |

| Part Number | Part Name |
|-------------|-------------|
| 10425 | Microswitch |
| 10426 | Actuator |