

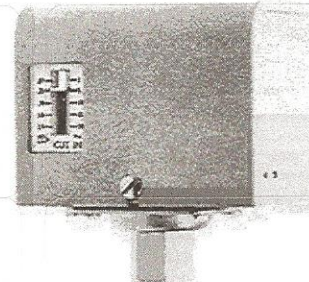
Pressure Controls Electric Switches General Instructions

DEVICE INFORMATION

Application

These pressure controls are used whenever it is necessary to close (or open) an electrical circuit on the basis of a predetermined air pressure signal. Typical applications include the control of air compressors, fans, pilot lights, etc.

The pressure controls incorporate a non-metallic diaphragm which is positioned by air pressure changes. The diaphragm in turn actuates a heavy duty electrical contact through a pivot mechanism.



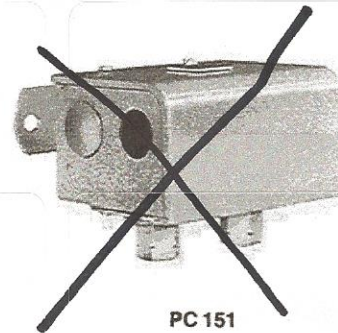
PC 110

INSTALLATION

Procedure

These devices can be mounted in any position, refer to Figures 1 and 2 for mounting dimensions.

1. Surface mounting.
 - a. PC-110: Remove device cover and knockouts from back of case. Secure to surface with 2 No. 10 screws.
 - b. PC-151: Secure to the surface with 2 No. 10 screws.
2. Make air supply connections.
3. Remove device cover and make wiring connections to the switch terminals. Refer to Figures 3 and 4 for terminal coding.
4. Replace the cover.



PC 151

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Wiring

All electrical wiring should be in compliance with national and local electrical codes. Electrical loads exceeding the rating of the control should be controlled by means of an intermediate relay or starter. PC-110 has one opening and PC-151 two openings for 1/2 inch.

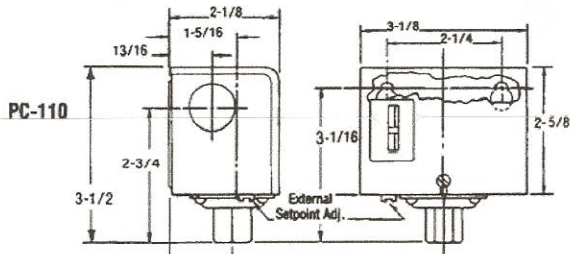


Figure-1

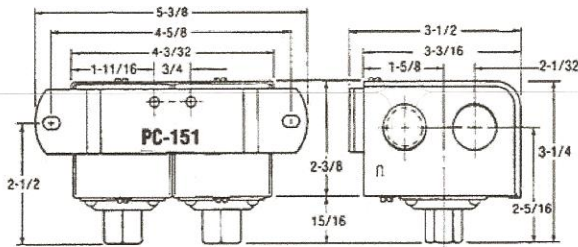


Figure-2

CHECKOUT

Using a test gauge, raise and lower the air pressure to verify the settings. Verify switch action by observing the action of the controlled device.

RUN/ADJUST

Pressure Setting

PC-151 is factory set and no field adjustments can be made. PC-110: The adjustment of the setpoint screw (Figure 3) establishes the control operating point on a pressure increase when used as a N.C. switch, or on a pressure decrease when used as a N.O. switch, and is indicated by the pointer of the graduated scale.

1. PC-110: Refer to Figure 3. Turn the adjuster with a screwdriver to move the indicator to the required setting on the scale. To change the differential from the 2 psi factory setting, loosen the lock screw and set the pointer at the required differential. Secure the lock screw.

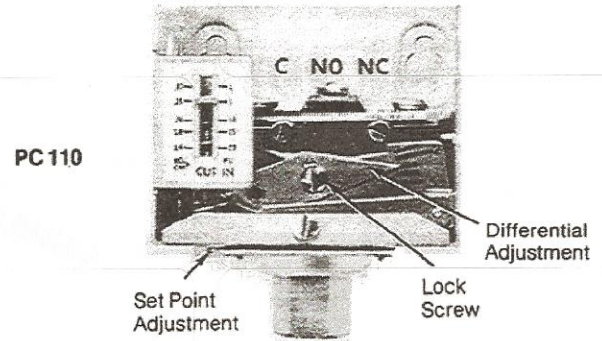


Figure-3

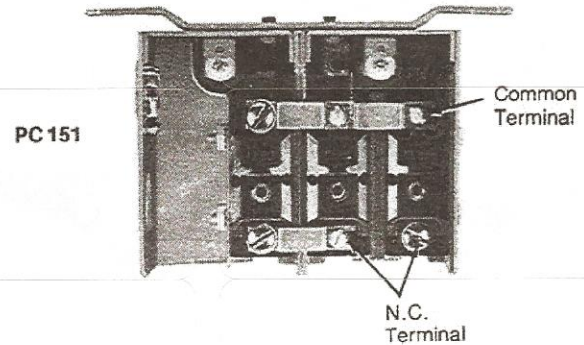


Figure-4

REPAIR

Field repair is not recommended. Replace a defective device.

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F-13758-8

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