

Installation and Operation Manual

FPS10

Positive/Negative Switch Kit

FPS10 Kit Includes:

- FPS10 Positive/Negative Switch, 1 pc
- 3' Section of Tubing, 1 pc
- Grommet for Tubing, 1 pc
- Packet with Switch Mounting Hardware, 1 pc



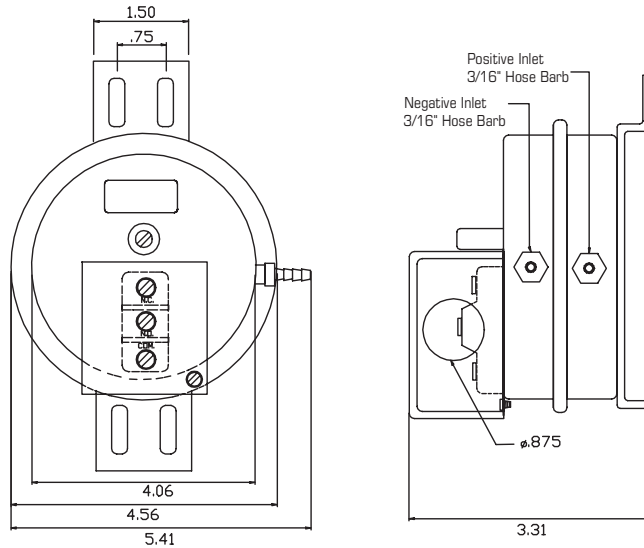
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Dimensional Data



Pressure Sensor Switch Operation

Fantech's FPS10 is a positive/negative pressure sensing switch which activates the booster fan from an independent electrical circuit. The electrical to the booster fan is connected in series through a normally open terminal on the switch. A pressure tap is connected to a hose connection on the side of the switch.

Installation Instructions

There are many applications for the FPS 10 used as a negative, positive or differential pressure switch. If used to control a booster fan for a supply duct in a HVAC system, care has to be taken to ensure that the switch senses the operation of the main fan in the air handler. This is best done by using the FPS10 as a negative switch and installing the pressure tap in the return duct of the HVAC system. Generally this ensures that the switch closes when the HVAC system turns on and opens when the HVAC system turns off.

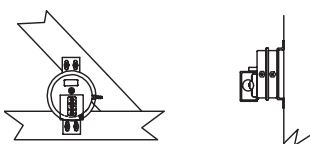
Be certain to allow adequate space for the switch. Refer to the dimensional data shown on front of these instructions. For optimum switch sensitivity, the diaphragm must be mounted vertically. Refer to the illustrations on Page 1 of these instructions for correct and incorrect switch diaphragm positioning. The switch should be mounted within 35 inches from the point where pressure is sensed.

Step 1. Mount Switch

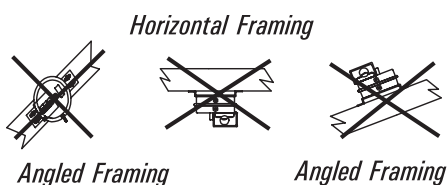
Using the woodscrews provided, secure the switch to the beam. When mounting the switch to drywall, concrete, etc., it is recommended that the anchors provided be used to securely hold the screws.

Note: Switch diaphragm must be mounted vertically for optimum sensitivity. Refer to illustrations to the right.

Correct Positioning



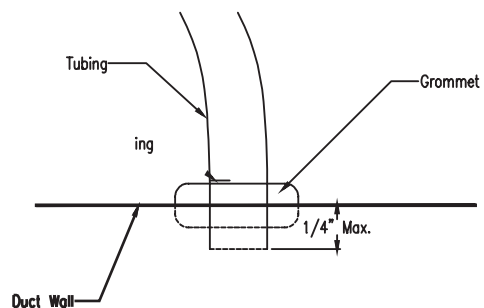
Incorrect Positioning



Step 2. Mount Switch

First, drill a 3/8 inch diameter hole in the duct wall. Carefully insert the grommet into the hole. (Drilling a metal duct may produce burrs. Be careful not to be cut or pricked by the burrs or the duct. Next, force one end of the tubing over the nipple on the switch. It may be necessary to use a lubricant in order to slide the tubing over the entire nipple. Make a mark a distance of 1/2 inch from the other end of the tubing. Slide this end of the tubing through the center of the grommet up to the mark as illustrated. Do not use a lubricant on this end of the tubing.

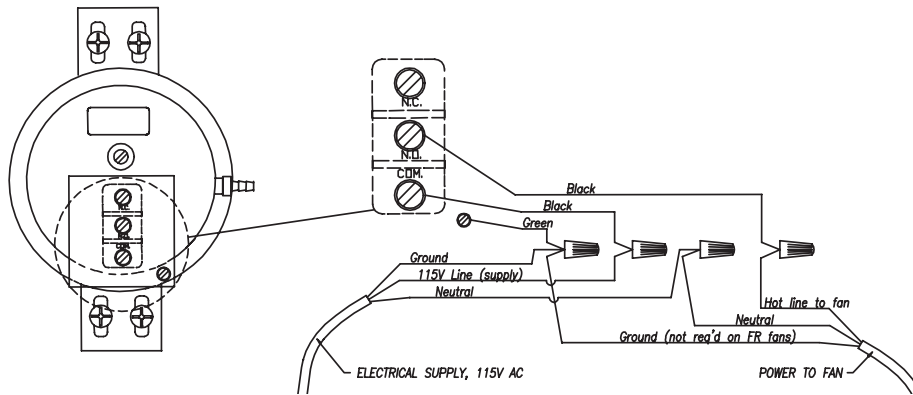
Note: Switch diaphragm must be mounted vertically for optimum sensitivity. Refer to illustrations to the right.



Wiring Procedure

Step 1

A 4"x4" junction box (J-Box) is recommended for adequate space for all wiring connections. The box should be mounted a maximum of 4 inches from the switch.



Step 2

Connect the incoming electrical supply, the switch leads and the power supply to fan as shown in the schematic below.

Warranty

Five (5) Year Warranty

This warranty supersedes all prior warranties

DURING ENTIRE WARRANTY PERIOD:

Fantech will repair or replace any part which has a factory defect in workmanship or material. Product may need to be returned to the Fantech factory, together with a copy of the bill of sale and identified with RMA number.

FOR FACTORY RETURN YOU MUST:

- Have a Return Materials Authorization (RMA) number. This may be obtained by calling Fantech either in the USA at 1.800.747.1762 or in CANADA at 1.800.565.3548. Please have bill of sale available.
- The RMA number must be clearly written on the outside of the carton, or the carton will be refused.
- All parts and/or product will be repaired/replaced and shipped back to buyer; no credit will be issued.

OR

The Distributor may place an order for the warranty part and/or product and is invoiced. The Distributor will receive a credit equal to the invoice only after product is returned prepaid and verified to be defective.

Fantech WARRANTY TERMS DO NOT PROVIDE FOR REPLACEMENT WITHOUT CHARGE PRIOR TO INSPECTION FOR A DEFECT. REPLACEMENTS ISSUED IN ADVANCE OF DEFECT INSPECTION ARE INVOICED, AND CREDIT IS PENDING INSPECTION OF RETURNED MATERIAL. DEFECTIVE MATERIAL RETURNED BY END USERS SHOULD NOT BE REPLACED BY THE DISTRIBUTOR WITHOUT

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- Damages resulting from improper wiring or installation.
- Damages or failure caused by acts of God, or resulting from improper consumer procedures, such as:
 1. Improper maintenance
 2. Misuse, abuse, abnormal use, or accident, and
 3. Incorrect electrical voltage or current.
- Removal or any alteration made on the Fantech label control number or date of manufacture.
- Any other warranty, expressed, implied or written, and to any consequential or incidental damages, loss or property, revenues, or profit, or costs of removal, installation or reinstallation, for any breach of warranty.

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