



IMPORTANT NOTICE: READ and SAVE THESE INSTRUCTIONS for FUTURE REFERENCE.

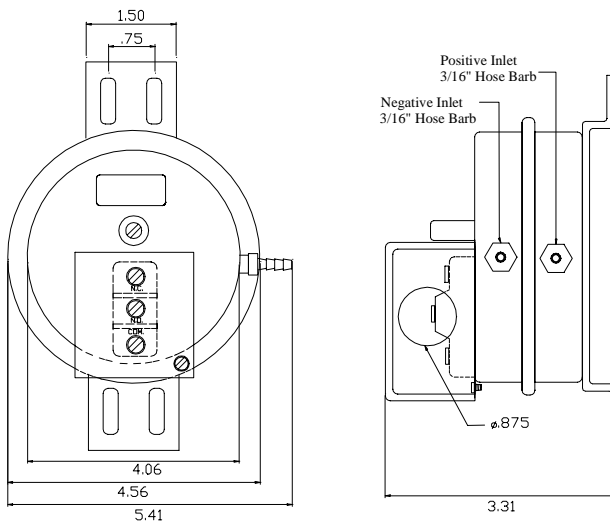
FPS10 POSITIVE/NEGATIVE SWITCH KIT INSTALLATION INSTRUCTIONS

Positive/Negative Fan Proving Switch

FPS10 Kit Includes:

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

FPS10 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 Guidelines

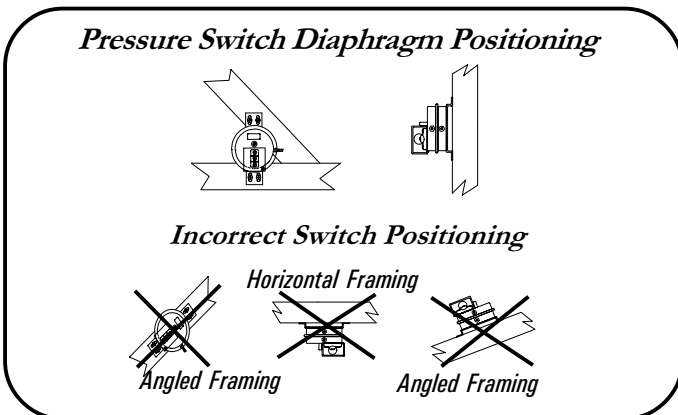
There are many applications for the FPS 10 used as a negative, positive or differential pressure switch. If used to control a booster fan for a supply duct in a HVAC system, care has to be taken to ensure that the switch senses the operation of the main fan in the air handler. This is best done by using the FPS 10 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

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

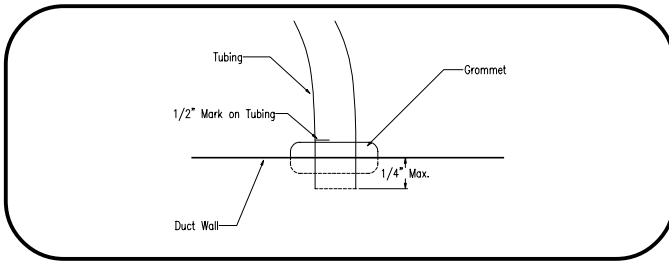
Using the wood screws provided, secure the switch to the beam. When mounting the switch to drywall, concrete, etc., it is recommended that the anchors provided be used to securely hold the screws.



Step 2. Installing Grommet and Tubing

Note: Grommet should be mounted no more than 30 inches from the pressure switch in order to allow the tubing to reach from the switch to the duct.

First, drill a 1/4 inch to 5/16 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.



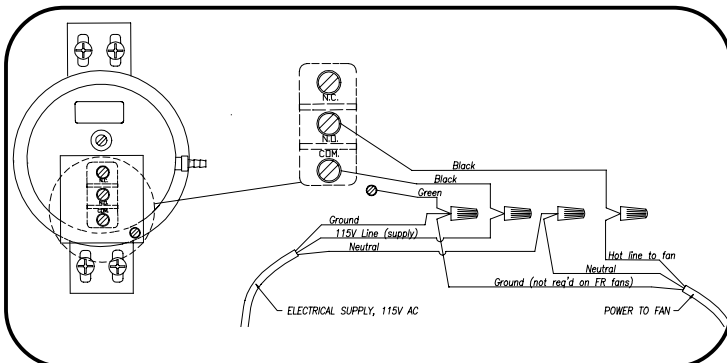
Wiring Procedure

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.



THIS WARRANTY SUPERSEDES ALL PRIOR WARRANTIES

FOR FACTORY RETURN YOU MUST:

- 1) Have a Return Materials Authorization (RMA) number. This number may be obtained by calling FANTECH, INC. at 1-800-747-1762. Please have Bill of Sale available.
- 2) The RMA number must be clearly displayed on the outside of the carton, or delivery will be refused.
- 3) All product being returned must be shipped prepaid and be accompanied with a copy of the Bill of Sale.
- 4) Product will be replaced/repared and shipped back to buyer. No credits will be issued.

DURING THE FIRST THIRTY (30) DAYS:

FANTECH, INC. will replace any product which has a factory defect in workmanship or material. Product may be returned to either the point of purchase or the FANTECH factory, together with Bill of Sale, for an immediate replacement.

DURING THE FIRST THREE (3) YEARS (excluding the above 30 day period):

FANTECH, Inc. will replace any product which has a factory defect in workmanship or material. Product must be returned to the FANTECH factory, together with Bill of Sale, and identified with an RMA number.

DURING YEARS FOUR (4) and FIVE (5):

FANTECH, INC. will repair or replace any product which has a factory defect in workmanship or material. Product must be returned to the FANTECH factory, together with a Bill of Sale, and identified with an RMA number.

THE FOLLOWING WARRANTIES DO NOT APPLY:

Damages from shipping, either concealed or visible. Claim must be filed with the carrier.

Damages resulting from improper wiring or installation.

Damages caused by acts of nature, or resulting from improper consumer procedures such as:

- Improper Maintenance,
- Misuse, abuse, abnormal use, or accident, or
- Incorrect electrical voltage or current.

Removal or alteration made on the FANTECH label control number or date of manufacture.

Any other warranty, expressed, written or implied, and to any consequential or incidental damages, loss of property, revenues, or profit, or costs of removal, installation or reinstallation, for any breach of warranty.

WARRANTY VALIDATION:

The end user must keep a copy of the Bill of Sale to verify purchase date.



Fantech

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