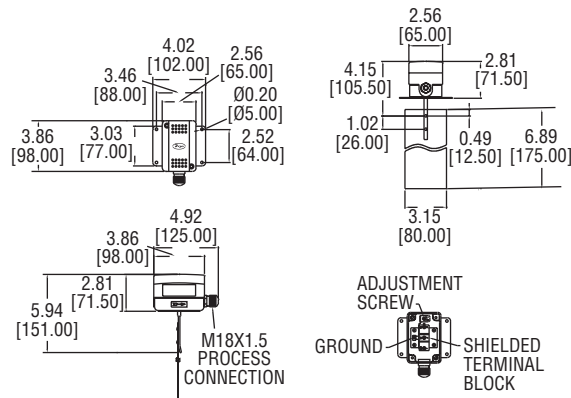




## Model AAFS Adjustable Air Flow Switch

### Installation and Operating Instructions



The **Model AAFS Adjustable Air Flow Switch** is capable of detecting a wide range of air velocities with minimal user calibration. The adjustable screw changes the set point at which the SPDT snap switch engages. Quality features include a stainless steel vane, galvanized steel base, and ABS enclosure. The unit is field adjustable from 200 to 1800 FPM (1 to 9.2 m/sec).

#### INSTALLATION

1. Select a location in a horizontal duct at least 10 duct diameters from fans and 7 diameters from elbows, size changes, etc. which can cause turbulence. Also, avoid areas with excess vibration or where the temperature limits might be exceeded. Switch can be mounted in any horizontal duct.

2. Use vane as received for 8" (203 mm) or larger ducts. Trim for smaller ducts.

3. Cut a mounting hole and slot for the vane and drill four 3/32" (2.38 mm) screw holes. Insert switch through slot and rotate so arrow on switch enclosure points in direction of air flow. Attach switch to duct with sheet metal screws.

4. To make electrical connections, loosen the retaining screws and remove the conduit enclosure cover. See figure 2. The SPDT snap switch has screw terminals marked common, normally open and normally closed. A ground screw is also provided. On decreasing flow, the normally open contacts will close and the normally closed contacts will open as the set point is passed. See figure 1.

5. To adjust set point, turn the flat-head screw located under the enclosure cover. Rotate clockwise to increase setting or counter-clockwise to decrease. See figure 2.

6. After all electrical connections and adjustments are complete, replace conduit enclosure cover.

#### MAINTENANCE/REPAIR

The only adjustment is that of the set point. Care should be taken to keep switch dry and free of dust, dirt and oil. No lubrication or routine maintenance is necessary in normal service.

#### WARRANTY/RETURN

Refer to "Terms and Conditions of Sales" in our catalog and on our website. Contact customer service to receive a Return Goods Authorization number before shipping the product back for repair. Be sure to include a brief description of the problem plus any additional application notes.

#### SPECIFICATIONS

**Service:** Air and compatible gas.

**Wetted Materials:** Vane: SS; Lever: Brass; Base: Galvanized steel.

**Housing:** ABS.

**Temperature Limits:** Ambient: -40 to 180°F (-40 to 85°C); Process: -14 to 185°F (-10 to 85°C).

**Humidity Limits:** 10 to 90%, non-condensing.

**Switch Type:** SPDT.

**Electrical Rating:** 15(8) A @ 250 VAC.

**Electrical Connection:** Screw terminal with M18 x 1.5 cable gland.

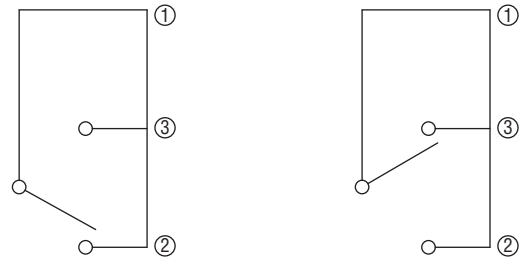
**Process Connection:** Flange.

**Mounting Orientation:** Horizontal duct flow.

**Set Point:** Internal screw.

**Enclosure Rating:** IP65.

**Weight:** 13.6 oz (380 g).



Switch position when air flow is present: continuity between terminal 1 and 2

Switch position when no-air flow is present: continuity between terminal 1 and 3

Figure 1

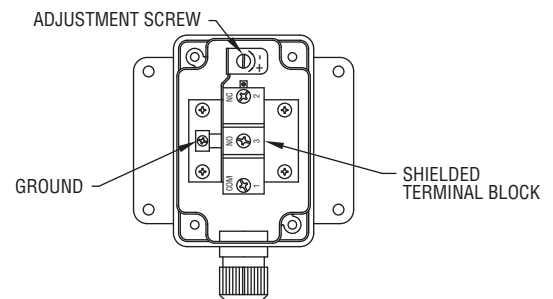


Figure 2