

Negative Pressure Only: Connect the sample line to inlet L; inlet H remains open to the atmosphere.

Two Negative Samples: Connect the higher negative sample to inlet L. Connect the lower negative sample to inlet H.

Two Positive Samples: Connect the higher positive sample to inlet H. Connect the lower positive sample to inlet L.

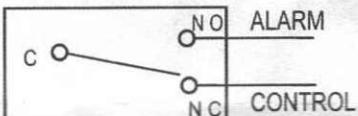
One Positive and One Negative Sample: Connect the positive sample to inlet H. Connect the negative sample to inlet L.

ELECTRICAL CONNECTIONS (FIGURES 3 & 4)

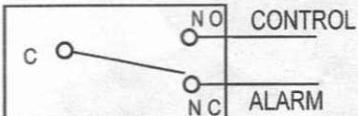
Before pressure is applied to the diaphragm, the switch contacts will be in the normally closed (NC) position. Wire control and alarm functions as shown in **Figure 4**.

Figure 4

To prove excessive air flow or pressure:



To prove insufficient air flow or pressure:



FIELD ADJUSTMENT

The adjustment range of an **RFS-4150** Air Switch is 0.15 ± 0.02 " wc to 5.0" wc.

To adjust the set point, turn the adjusting screw counterclockwise until motion has stopped. Next, turn the adjusting screw 5 complete turns clockwise to engage the spring.

From this point, the next eight turns will be used for the actual calibration. **Each full turn represents approximately 0.61" wc.**

Please note: To properly calibrate an air switch, a digital manometer or other measuring device should be used to confirm the actual set point.

SPECIFICATIONS

MODEL RFS-4150

AIR PRESSURE SENSING SWITCH
WITH ADJUSTABLE SET POINT RANGE

Mounting Position:

Mount with the diaphragm in any vertical plane.

Standard Set Point Range:

0.15 ± 0.02 " wc to 5.0" wc.

Field Adjustable "Operate Range":

0.17" wc to 5.0" wc.

Field Adjustable "Release Range":

0.14" wc to 4.7" wc.

Approximate Switch Differential:

Progressive, increasing from 0.05 ± 0.02 " wc at minimum set point to approximately 0.3" wc at maximum set point.

Measured Media:

Air or combustion by-products that will not degrade silicone.

Maximum Pressure:

$\frac{1}{2}$ psi (0.03 bar).

Operating Temperature Range:

-40 to 180F (-40.0 to 82.2C).

Life:

100,000 cycles minimum at $\frac{1}{2}$ psi maximum pressure each cycle and at maximum rated electrical load.

Electrical Rating:

300 VA pilot duty at 115 to 277 VAC; 15 amp noninductive to 277 VAC, 60 Hz.

Contact Arrangement:

SPDT.

Electrical Connections:

$\frac{1}{4}$ ", 90° quick-connect terminals.

Sample Line Connectors:

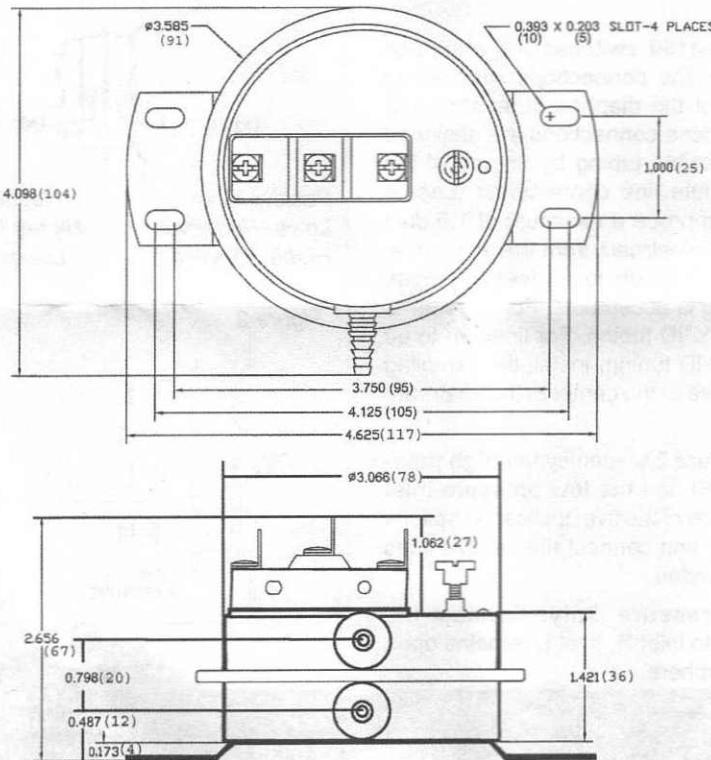
Tri-barb connectors for $\frac{1}{8}$ ", $\frac{1}{4}$ ", and $\frac{5}{16}$ " ID tubing.

Approvals:

UL, CUL.

Shipping Weight:

7.5 oz.



Reference Dimensions in Inches (Millimeters)