

Installation & Maintenance Sheet

F-Series Pressure Switch



INTRODUCTION

The F-Series pressure switch is a precision built U.L. and CSA approved control device which features a single or dual SPDT, hermetically sealed mechanical snap-action switch. Several wetted material constructions for compatibility with pressure media may be obtained.

Series FP-S switches have a fixed deadband which will be within the limits noted on the nameplate.

MOUNTING

The F-Series snap-action pressure switch has an anodized aluminum body and conduit fitting with a 316 stainless steel pressure port.

Two holes in the body are used to surface mount the control. Location of the holes is shown on the general dimension drawings. Mount on a vibration free surface in any orientation. When tightening control to pressure line, always use the hex on the pressure connection.

NEVER TIGHTEN BY TWISTING THE BODY OR THE CONDUIT HEX.

ADJUSTMENT OF SETPOINT

A single setpoint adjustment nut is located centrally inside the cover of the body. Align bottom of adjustment nut slot with scale for approximate pressure setting.

The adjustment nut is locked in place with a set screw located centrally in the body below the adjustment nut. A $\frac{5}{64}$ " Allen wrench is used to adjust the set screw.

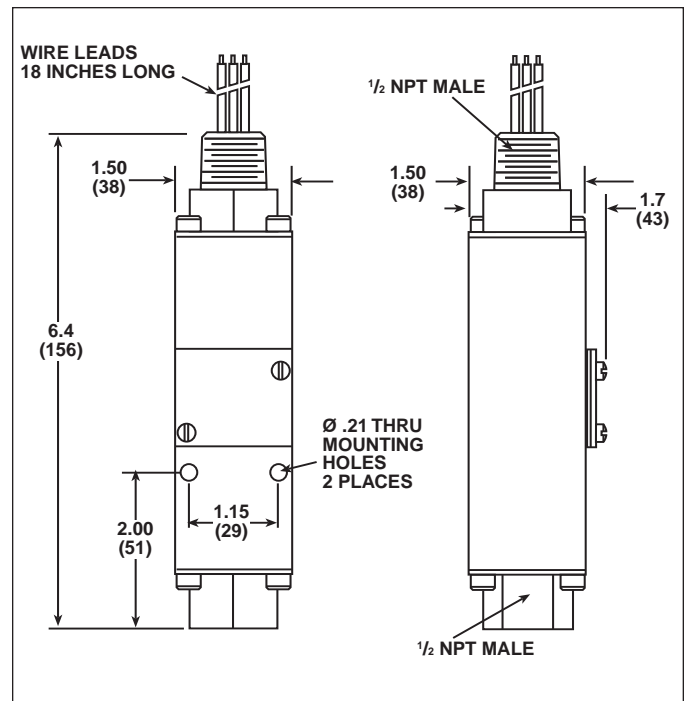
For accurate setpoint calibration use Ashcroft ATE-100 handheld calibrator with a pump, or Ashcroft 1305 dead-weight gauge tester.

As received, the pressure switch will normally be set to approximately 90% of the indicated range. Pressurize the system to the required setpoint and turn the adjustment nut until switch changes mode. When the setpoint has been achieved raise and lower pressure to ensure that setpoint is correct.

After installation of the control replace cover to protect internal parts from the environment.

ELECTRICAL CONNECTION

The F-Series switch is available in SPDT or (2) SPDT circuit. Wire leads (18") are provided for both switches.



STANDARD RANGES

30" Hg Vac.
30, 60, 100, 200, 400, 600, 1000, 3000, 4000 psi

SPDT

Common – White
Normally Open – Blue
Normally Closed – Red
Ground – Green

(2) SPDT

Common – (JJ) White/Black;
(LL) White/Green
Normally Open – Blue
Normally Closed – Red
Common – Black
Normally Open – Blue/Black
Normally Closed – Red/Black
Ground – Green

Note: When using a vacuum range switch, the N.C. is blue and N.O. is red.

ELECTRICAL RATING

Description	Order Code	
	Electrical Rating (Resistive)	SPDT DPDT
General Purpose:	11A 125/250 Vac; 5A 30 Vdc	J JJ
Narrow Deadband:	5A 125/250 Vac	P N/A
Gold Contacts:	1A 125 Vac	L LL