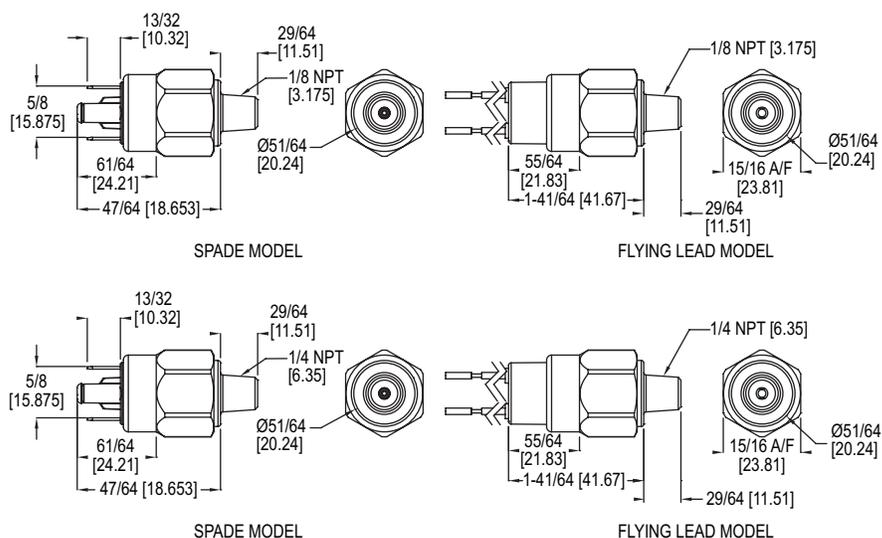




Series A2 Subminiature Pressure Switches

Specifications - Installation and Operating Instructions



Designed for OEM applications, the **Series A2 Subminiature Pressure Switches** are economical and is equipped with high proof pressure capabilities for demanding applications. The A2 is available with either spade terminals or flying leads. Switches with spade terminals and flying leads can be easily adjusted in the field.

FEATURES/BENEFITS

- High-proof pressure to meet application demands
- Easy adjustment reduces installation and service times

APPLICATIONS

- OEM

WARNING Product must be maintained and installed in strict accordance with the National Electrical Code and Dwyer Instruments product catalog and installation bulletin. Failure to do so could result in serious injuries or damages.

The pressure and temperature limitations shown on the individual catalog pages and drawings for the specified switches must not be exceeded. These pressures and temperatures take in consideration possible system surge pressure/temperatures and their frequencies.

Selection of materials for compatibility with the media is critical to the life and operation of Dwyer Instruments products. Take care in the proper selection of materials of construction, particularly wetted materials.

Ambient temperature changes do affect the switch set points, since the specific gravity of a liquid can vary with temperature.

Dwyer Instruments products have been designed to resist shock and vibration. However, shock and vibration should be minimized.

Filter liquid media containing particulate and/or debris to ensure the proper operation. Electrical entries and mounting points in an enclosed tank may require liquid/vapor sealing.

Dwyer Instruments Products must not be field repaired. Physical damage sustained by the product may render it unserviceable.

OPERATING CHARACTERISTICS			
Model	Adjustment Range psi (bar)	Average Differential (psi)	Proof Pressure (psi)
A2-5XXX	2-20 (0.14-1.4)	Less than 10% of Actuation Point	350
A2-6XXX	15-100 (1.03-6.9)	Less than 10% of Actuation Point	350
A2-7XXX	50-150 (3.5-10.3)	Less than 10% of Actuation Point	350

SPECIFICATIONS

Service: Compatible liquids and gases.
Wetted Materials: Diaphragm: Kapton; Fitting: Brass.
Temperature Limits: -40 to 230°F (-40 to 110°C).
Pressure Limits: 350 psi (24 bar).
Enclosure Rating: IP69 (flying lead models only).
Repeatability: ±3% of highest set point at 70°F (21°C).
Switch Type: SPST, 100 VA, 42 VDC.
Electrical Connection: 1/4" x 1/32" spade terminals or 18" flying leads.
Process Connection: 1/8" male NPT (optional 1/4" male NPT).
Mechanical Life: 1,000,000 cycles.
Weight: 0.15 lb (0.07 kg).
Agency Approvals: CE.

INSTALLATION / MOUNTING

To install the switches, use a suitable wrench on the hex portion of the switch body and plumb into place using pipe tape or a compatible sealant. For electrical wiring, refer to wire codes as listed below and to the specification sheet for the switch ratings.

WIRING CODE		
Contact	Spades	Flying Leads
Common	C	Black
Normally Closed	NC	Green
Normally Open	NO	Red

SET POINT ADJUSTMENT

Remove the adjustment plug in the top of the unit. Then, using a 5/64" allen (hex) wrench, adjust clockwise to increase the set point and counterclockwise to decrease the set point. Adjustments are done while applying a known pressure and monitoring the switch's state.

The pressure switch is designed and manufactured in accordance with Sound Engineered Practice as defined by the Pressure Equipment Directive 2014/68/EU. This pressure switch must not be used as a "safety accessory" as defined by the Pressure Equipment, Article 1, Paragraph 2.1.3

MAINTENANCE/REPAIR

Upon final installation of the Series A2, no routine maintenance is required. The Series A2 is not field serviceable and is not possible to repair the unit. Field repair should not be attempted and may void warranty.

WARRANTY/RETURN

Refer to "Terms and Conditions of Sale" 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.