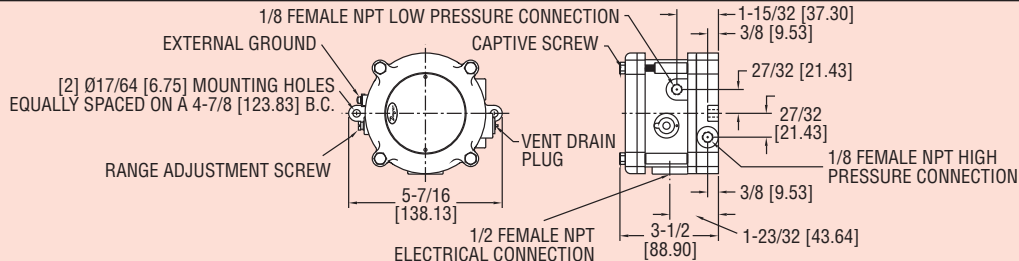




Series  
1950G

# Explosion-proof Differential Pressure Switch

Explosion-proof, Weatherproof, Compatible with Natural Gases



**The Model 1950G Explosion-Proof Switch** combines the best features of the popular Dwyer® Series 1950 Pressure Switch with the benefit of natural gas compatibility. Units are rain-tight for outdoor installations, and are UL listed for use in Class I, Groups A, B, C, & D; Class II, Groups E, F, & G and Class III atmospheres, Directive 94/9/EC (ATEX) Compliant for **CE Ex** II 2G Exd IIB + H<sub>2</sub> T6, CSA & FM approved for Class I, Div 1, Groups B, C, D; Class II, Div 1, Groups E, F, G and Class III atmospheres IECEx Exd IIB + H<sub>2</sub> T6 (40°C < T<sub>a</sub> < +60°C). The 1950G is very compact, about half the weight and bulk of equivalent conventional explosion-proof switches.

Easy access to the SPDT relay and power supply terminals is provided by removing the top plate of the aluminum housing. A supply voltage of 24 VDC, 120 or 240 VAC is required. A captive screw allows the cover to swing aside while remaining attached to the unit. Adjustment to the set point of the switch can be made without disassembly of the housing.

## SPECIFICATIONS

**Service:** Air and compatible combustible gases.

**Wetted Materials:** Contact factory.

**Temperature Limits:** 0 to 140°F (-17 to 60°C).

**Note:** Set point drift may occur with ambient temperature changes.

**Pressure Limits:** 45 in w.c. (11.2 kPa) continuous; 10 psig (68.95 kPa) surge.

**Enclosure Rating:** NEMA 3 (IP54), NEMA 7 & 9.

**Switch Type:** 1 Form C relay (SPDT).

**Electrical Rating:** 10A, 120/240 VAC, 28 VDC. Resistive 50 mA, 125 VDC.

**Power Requirements:** 24 VDC ±10%. 120 or 240 VAC ±10% optional.

**Electrical Connections:** Internal terminal block.

**Process Connections:** 1/8" female NPT.

**Mounting Orientation:** Diaphragm in vertical position. Consult factory for other position orientations.

**Set Point Adjustment:** Screw type on top of housing.

**Weight:** 2 lb, 15.7 oz (1.35 kg).

**Agency Approvals:** ATEX, CE, CSA, FM, IECEx, UL.

| UL, CSA, FM Model | ATEX Model    | Range, Inches w.c. | Approximate Deadband at |                |
|-------------------|---------------|--------------------|-------------------------|----------------|
|                   |               |                    | Min. Set Point          | Max. Set Point |
| 1950G-00-B-24-NA  | 1950G-00-B-24 | .07 to .15         | .04                     | .06            |
| 1950G-0-B-24-NA   | 1950G-0-B-24  | .15 to .50         | .06                     | .11            |
| 1950G-1-B-24-NA   | 1950G-1-B-24  | .4 to 1.6          | .11                     | .29            |
| 1950G-5-B-24-NA   | 1950G-5-B-24  | 1.4 to 5.5         | .4                      | .9             |
| 1950G-10-B-24-NA  | 1950G-10-B-24 | 3 to 11            | .9                      | 1.8            |
| 1950G-20-B-24-NA  | 1950G-20-B-24 | 4 to 20            | 1.2                     | 3.0            |