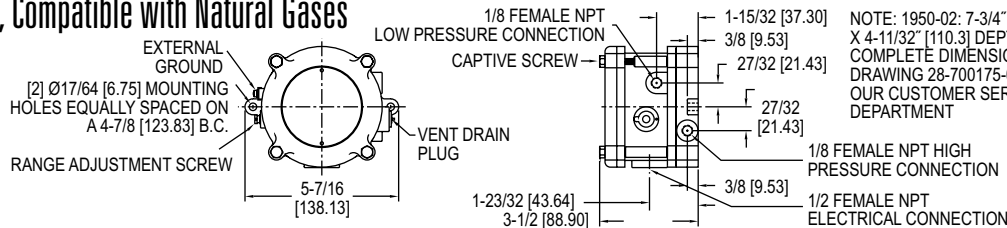


# EXPLOSION-PROOF DIFFERENTIAL PRESSURE SWITCH

Explosion-proof, Weatherproof, Compatible with Natural Gases



NOTE: 1950-02: 7-3/4" [196.9] DIA. X 4-11/32" [110.3] DEPTH. FOR COMPLETE DIMENSIONS REQUEST DRAWING 28-700175-00 FROM OUR CUSTOMER SERVICE DEPARTMENT

**Series 1950G Explosion-Proof Differential Pressure 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, and D; Class II, Groups E, F, and G and Class III atmospheres, Directive 2014/34/EU (ATEX) Compliant for **CE 2813** **Ex II 2G Ex db IIB+H2 T6**, CSA and FM approved for Class I, Div. 1, Groups B, C, D; Class II, Div. 1, Groups E, F, G and Class III atmospheres. IECEx Ex db IIB+H2 T6 (-40°C<Ta<+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.

## BENEFITS/FEATURES

- Compatible with natural gas making it suitable for use in those applications
- External set point screw provides easy access that simplifies making adjustments without opening or disassembling enclosure
- Easily accessible electrical connection simplifies the installation

## APPLICATIONS

- Natural gas applications
- Process applications
- All-weather applications

## 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 and 9.

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

**Electrical Rating:** 10 A, 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).

**Compliance:** ATEX, CE, CSA, FM, IECEx, UL.

## MODEL CHART

UL, CSA, FM Model	ATEX Model	Range in w.c.	Approximate Deadband	
			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
240 VAC Models: 1950G-XX-B-240-NA; 120 VAC Models: 1950G-XX-B-120-NA				



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