EXPLOSION-PROOF DIFFERENTIAL PRESSURE SWITCH

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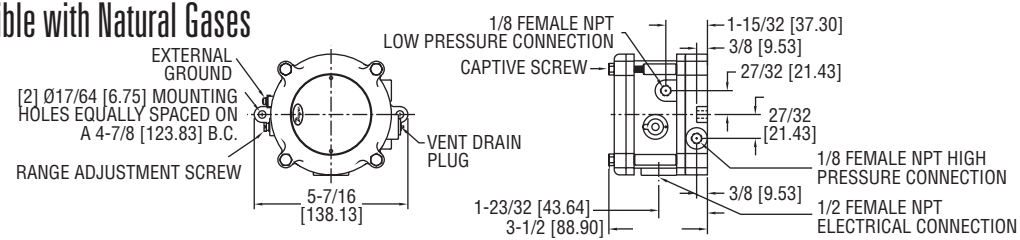
Explosion-proof, Weatherproof, Compatible with Natural Gases



SERIES 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+H2 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 Ex d 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.

FEATURES/BENEFITS

- Compatible with natural gas and suitable 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 & 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).
Agency Approvals: ATEX, CE, CSA, FM, IECEx, UL.

MODEL CHART

UL, CSA, FM Model	ATEX Model	Range in w.c.	Approximate Deadband Min. Set Point	Approximate Deadband 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

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