BLAZE

FM APPROVED

Pressure Switch

Model : BT-EPS-025

Description:

BLAZE Pressure Switch is Engineered for uncompromising reliability, this high-precision pressure switch provides rapid alarm activation and accurate monitoring for critical fire protection systems. Built with a rugged, weatherproof NEMA 4 enclosure, it ensures flawless performance in both harsh indoor and outdoor environments. Fully certified to meet the stringent life safety requirements of NFPA 13, 13D, 13R, and the NFPA 72 National Fire Alarm Code. It is the industry-standard choice for Alarm Valve, Dry Pipe Valve, Deluge, or Pre-action Sprinkler Systems where property and life safety are non-negotiable.

The Pressure Switch is designed for installation on fire protection valve trim to monitor system pressure. It is fitted with a ½ in. NPT male connection and detects increases or decreases in air or water pressure.

Typical applications include dry pipe valves, pre-action systems and pressure tanks. The switch provides one or two SPDT contacts for connection to fire alarm and supervisory monitoring systems.



Specifications :

Maximum System Pressure	300 PSI (2.07 MPa)
Factory Setting	BT-EPS-025-1 operates upon decreasing pressure at 18 psi BT-EPS-025-2 operates upon increasing pressure at 28 psi and upon decreasing pressure at 18 psi
Differential	Approximately 3 psi @ 10 psi, 5 psi @ 60 psi
Maximum Adjustment Pressure Range	10 to 60 psi
Contact Ratings	BT-EPS-025-1: One set SPDT (Form C) BT-EPS-025-2: Two sets of SPDT (Form C) 10.1 Amps at 125 / 250 VAC 2.0 Amps at 24 VDC
Operating Temperature Range:	-40 °F to 160 °F (-40 °C to 71°C)
Cover Material	Aluminum Die-Casting.
Approval	FM 3132 Approved

⚠ Warning :

- Installation must be carried out by qualified personnel in accordance with all applicable national and local codes and regulations.
- Warning: Disconnect the power supply before carrying out installation or maintenance. Failure to do so may result in serious injury or death.
- Do not install or use this product in hazardous or explosive atmospheres.

Installation :

1. Install the pressure switch on the system trim or air supply line as specified in the system design.
2. Install the switch on the system side of any shut-off valve.
3. Apply PTFE tape to the male threaded connection before installation.

Note: Do not use pipe joint compound or pipe dope.

4. Tighten the switch securely without over-tightening.
5. Complete all electrical wiring in accordance with the wiring diagram and local electrical regulations.

Electrical Connections :

The Pressure Switch is available with one or two SPDT contacts.

- BT-EPS-025-1: One SPDT contact for low-pressure supervisory monitoring.
- BT-EPS-025-2: Two SPDT contacts for both high-pressure and low-pressure supervisory monitoring.

The switch can be connected directly to a fire alarm control panel or supervisory monitoring system.

Inspection and Testing :

Inspect and test the Pressure Switch in accordance with NFPA standards and the requirements of the Authority Having Jurisdiction (AHJ).

The manufacturer recommends testing the switch at least every three months to ensure reliable operation.

Model and Size:

Model	Description	Weight (Kg)
BT-EPS-025-1	One set SPDT contacts	0.5
BT-EPS-025-2	Two sets SPDT contacts	0.5

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PRECISION YOU CAN TRUST

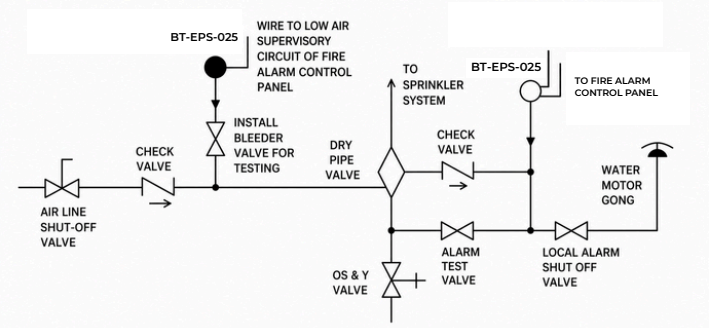
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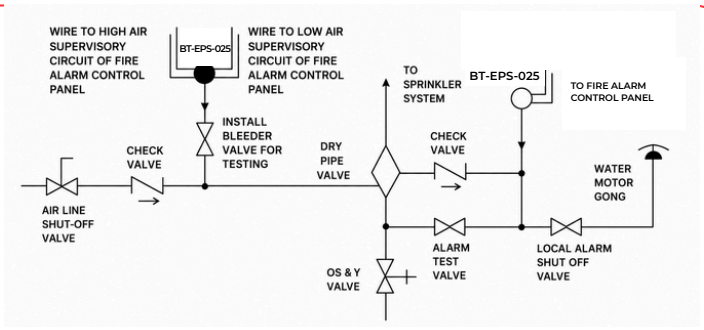
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Typical Sprinkler Applications :



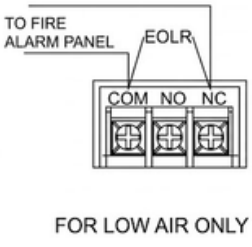
DRY SYSTEM



DRY SYSTEM

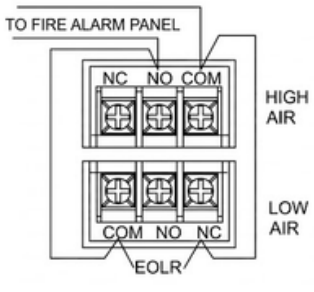
Field Typical Electrical Connections:

BT-EPS-025-1

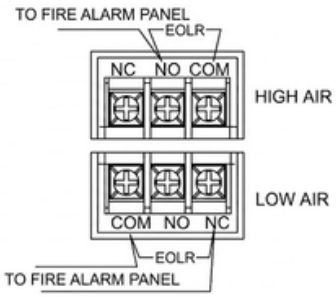


TYPICAL CONNECTIONS

BT-EPS-025-2

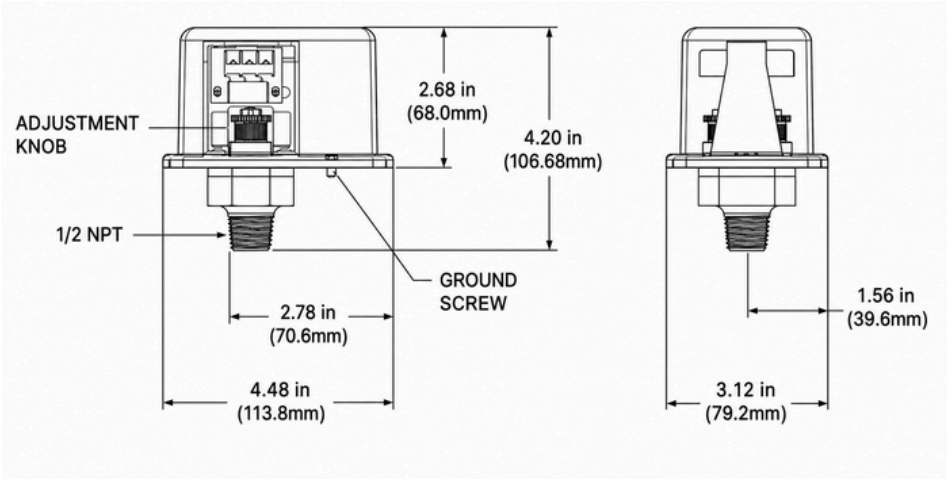


BT-EPS-025-2



SIGNAL SEPERATE WIRING

Mounting Dimensions :



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