

Pressure Switch Assembly

Effective: January 2000

P/N 31-194133-0X

FENWAL®

93.3119.0

FEATURES

- Easy Installation
- Available Normally Open or Normally Closed
- Explosion Resistant Cable Option

DESCRIPTION

This pressure switch assembly mounts directly to a check valve on Fenwal spherical FM-200® agent storage containers to trigger a TROUBLE condition when container pressure drops below 200 psig \pm 15 psi. Assemblies are available with normally open or normally closed contacts, and with standard or explosion resistant cable assemblies.

OPERATION

Normally Open - The pressure switch contacts are closed when the container is pressurized in accordance with specifications. The contacts open when pressure drops below 200 psig.

Normally Closed - The pressure switch contacts are open when the container is pressurized in accordance with specifications. The contacts close when pressure drops below 200 psig.

CAUTION

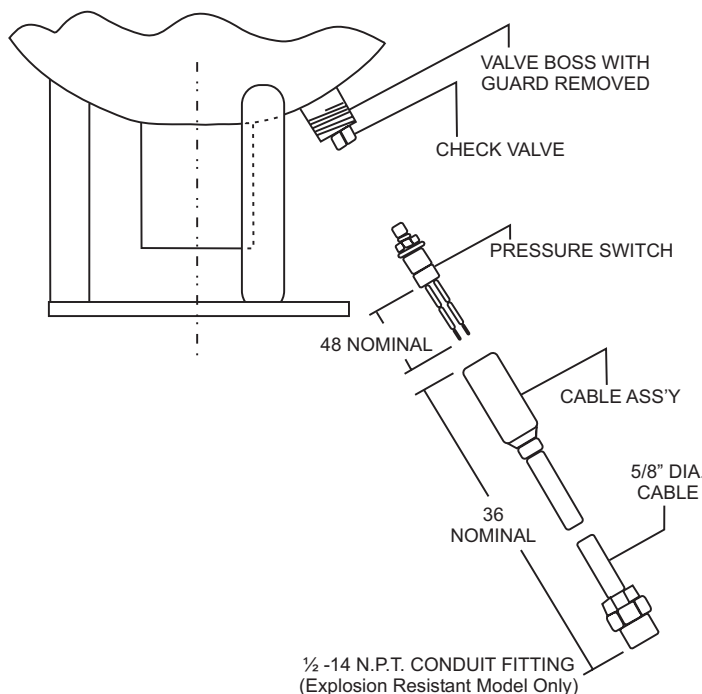
Pressure in a normally filled container will drop below 200 psig at or below a temperature of +10°F (-12°C). Accordingly, this modification is not recommended for low temperature applications.

INSTALLATION

To install the pressure switch assembly, first unscrew the guard around the unused boss on the container and remove the safety plug from the check valve. Secure the check valve hex with a wrench to guard against loosening the check valve. Screw the pressure switch into the check valve 3 turns beyond hand tight and then attach the cable assembly by screwing the housing over the threaded boss. Connect the cable assembly to the control unit in accordance with the system schematic.

CAUTION

Use wrench on check valve to avoid over tightening and when loosening components for removal.



ORDERING INFORMATION

Standard Pressure Switch Assembly -

Normally Open: P/N 31-194133-001

W/Explosion Resistant

Cable Assembly*: P/N 31-194133-002

Standard Pressure Switch Assembly -

Normally Closed: P/N 31-194133-00

W/Explosion Resistant

Cable Assembly*: P/N 31-194133-004

SPECIFICATIONS

Current Rating: 1 amp @ 120/240VAC,
Resistive 2 amps @ 24 VDC

Contacts Open: 200 \pm 15 psig

*Explosion resistant cable assemblies for Class 1, Groups C and D; Class 2, Groups E, F and G locations.

ARCHITECT/ENGINEER SPECIFICATIONS

The Pressure Switch Assembly shall be used with Fenwal spherical FM-200 agent storage containers to provide supervision of loss of pressure and/or extinguishing agent by indication of a Trouble signal at the Fenwal control unit. It shall consist of a cable assembly and a pressure switch. It shall be mounted directly on the container by means of a boss-mounted check valve to facilitate removal of the pressure switch without losing FM-200 agent.

Normally Open - The contacts of the switch shall be closed when the container is pressurized in accordance with specifications. The contacts will open when container pressure drops below 200 \pm 15 psig. This switch shall not be used for applications where ambient temperatures could drop to 10°F (12°C) or lower as this temperature will cause normal vessel pressure to drop below 200 psig.

Normally Closed - The contacts of the switch shall be open when the container is pressurized in accordance with specifications. The contacts will close when container pressure drops below 200 \pm 15 psig. This switch shall not be used for applications where ambient temperatures could drop to 10°F (12°C) or lower as this temperature will cause normal vessel pressure to drop below 200 psig.

The explosion resistant cable assembly shall be designed for hazardous locations, Class 1, Groups C and D, Class 2, Groups E, F and G. Its contacts shall be rated at 1 Amp at 120/240VAC and 2 Amps at 24VDC.

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