

# FM-200<sup>®</sup> Component Description

Supervisory Pressure Switch, Explosion Proof  
1-1/2 Inch Thru 2-1/2 Inch Valves (European Approval)

P/N 06-118537-001

 **Kidde Fire Systems**

A UTC Fire & Security Company

Effective: January 2010

**K-90-9052**

## FEATURES

- ATEX Approved. Ref Directive 94/9EC

## DESCRIPTION

The cylinder supervisory pressure switch is intended to detect a fall in pressure in the FM-200<sup>®</sup> cylinder. The cylinder supervisory pressure switch can be wired for either normally open or normally closed operation, depending on installation requirements. This switch can be installed onto 10 lb. through 350 lb. cylinders only.

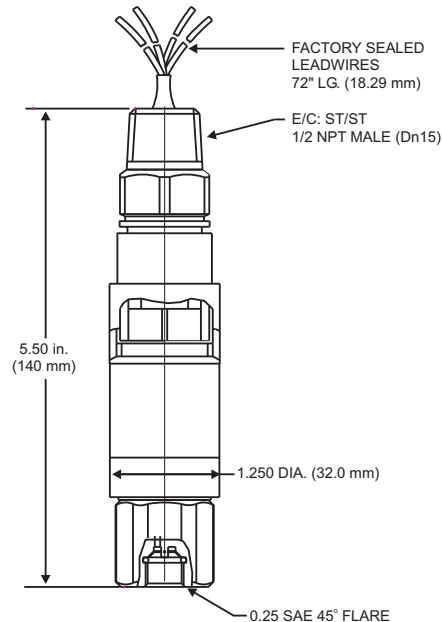
## OPERATION

When the pressure in the FM-200 container drops from the standard charge pressure of 360 PSI (25 bar) to below 288 PSI (19.86 bar) the switch operates. If wired in the NC (open-under-pressure) configuration the resulting pressure drop will cause the contacts to close. When connected to a monitored circuit of a suppression control panel the switching will result in an alarm or trouble condition.

**Note:** If the temperature of the container contents drop to a temperature of 32°F (0°C) or below, the pressure in the container will be equal to or less than 288 PSI (19.86 bar) and the switch will operate. However, the minimum operating temperature of the system is 32°F (0°C).

## INSTALLATION

The supervisory pressure switch can be installed, by trained service personnel only, onto a normally pressurized container, without loss of pressure. The pressure switch port connection is located opposite the valve outlet. Remove the protective cap from the pressure switch port. Secure the pressure port with a wrench, to prevent turning the fitting within the valve body, and attach the supervisory switch. Tighten the switch connection a ¼ turn past hand tight. Leak test the connection with a leak detector or a bubble solution. Secure the switch body with a wrench when connecting electrical conduit. Disconnect all power circuits before wiring the supervisory switch.



## TECHNICAL DATA

- Approvals:
  - Cenlec Flame Proof Construction per EExd IIC T6
  - DEMKO A/S Certified to ATEX Directive
  - Flameproof Equipment
- Classification: NEMA 4X, 7 and 9; IP66
- Switch Output: One SPDT, Factory Sealed Leadwires
- Set Point: 288 PSIG on fall
- Temperature Rating: -130°F to 650°F (-90°C to 340°C)
- Electrical Rating: 5A @ 250 Vac, Resistive and 3A Inductive @ 28A
- Enclosure: 316 Stainless Steel
- Wire Color:
  - Blue = Normally Open
  - Red = Normally Closed
  - Brown = Common
  - Green = Ground



FM-200 is a registered trademark of the Great Lakes Chemical Corporation..

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If you need more information on this product, or if you have a particular problem or question, contact KIDDE-FENWAL, INC., Ashland, MA 01721. Telephone: (508) 881-2000.

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