FM-200® Component Description
Supervisory Pressure Switch, Explosion Proof (European Approval)

P/N 06-118398-001

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® 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 on 3-inch valve cylinders only, i.e., new style 600 lb. cylinders (sold after 8/01) and 900 lb. cylinders.

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 on a fully charged container, without loss of pressure, provided the unit is handled with care and only by trained service personnel. Remove the protective plug in the pressure port fitting by holding the fitting with a 5/8-inch open-end wrench and removing the plug with another wrench. Apply Permacel® #412D Teflon® tape to the male switch threads and while maintaining the plug on another wrench. Secure switch body with wrench when connecting electrical conduit. Isolate the assembly from shock, vibration and areas subject to wide-ranging or rapid temperature fluctuations. Disconnect all supply 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
• Enclosure: NEMA 4X, 7 and 9
• 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

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