

Kidde ECS Fire Suppression System Component Description



Effective: June 2014

K-90-9048 Rev BA

Supervisory Pressure Switch, 3-inch Valve Manufactured Prior to May 1, 2013

FEATURES

- Both Normally Open and Normally Closed Configuration with One Unit
- UL Listed and FM Approved
- CRUUS Recognized Component (US and Canada)
- For Use on 3-inch Valve Cylinders Manufactured Prior to May 1, 2013 Only

DESCRIPTION

The Kidde ECS System cylinder supervisory pressure switch is intended to detect a fall in pressure in the agent cylinder. The cylinder supervisory pressure switch can be wired for either normally open or normally closed operation, depending on installation requirements. This cylinder supervisory pressure switch can be installed on 3-inch valve cylinders manufactured prior to May 1, 2013. For 3-inc valve cylinders manufactured after May 1, 2013, use Supervisory Switch P/N: 06-118262-001.

OPERATION

When the pressure in the agent 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 an 5/8" open-end wrench and removing the plug with another wrench. Apply Permacel® #412D Teflon® tape to the male switch threads and while maintaining the wrench on the fitting install the switch. Tighten using a 1-1/16" open-end wrench. Leak check using a leak detector or bubbling solution. 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.



ORDERING INFORMATION

The cylinder supervisory pressure switch offers combined normally opened and normally closed functionally. The part number for ordering the cylinder supervisory pressure switch is 06-118263-001.

SPECIFICATIONS

- Setting:** 288 PSI (19.86 bar) on falling pressure
- Electrical rating:** 5 Amps, 250 Vac
- Wire color coding:** Blue = Normally Open
Black = Normally Closed
Violet = Common
- Operating temperature range:** 32 to 130°F (0 to 54°C)
- Pressure connection:** 0.125-27" NPT male connector
- Wetted materials:** EPR, Brass Copper
- Lead length:** 36 in. +/- 2 in.
(914 mm +/- 50 mm)

COMPATIBILITY

Series	For Use With
Kidde ECS HFC-227ea	X
Kidde ECS Advanced Delivery FM-200®	X

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