

# Fenwal Engineered Fire Suppression System



Designed for use with 3M™ Novec™ 1230 Fire Protection Fluid  
Supervisory Pressure Switch, 3- inch Valve (prior to May 1, 2013) Data Sheet,  
P/N: 06-118263-001

F-44-9048

## FEATURES

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

## DESCRIPTION

The cylinder supervisory pressure switch is intended to detect a fall in pressure in the Fenwal Engineered System 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 manufactured prior to May 1, 2013 only (i.e., 600 lb. cylinders and 900 lb. cylinders). For 3-inch valve cylinders manufactured after May 1, 2013, use Supervisory Pressure Switch P/N: 06-118262-001.

## OPERATION

When the pressure in the Fenwal Engineered System cylinder drops from the standard charge pressure of 360 PSI (25 bar) to below 305 PSI (21 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 close to a temperature of 32°F (0°C) or below, the pressure in the container will be equal to or less than 305 PSI (21 bar) and the switch will operate. However the minimum operating temperature of the system is 0°F (-18°C).

## INSTALLATION

The supervisory pressure switch can be installed on a fully charged cylinder, without loss of pressure, provided the unit is handled with care and only by trained service personnel. Remove the protective cap in the pressure port fitting with an 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 wrench on the fitting, install the switch. Tighten using the 1-1/16-inch open-ended 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 supervisory pressure switch offers combined normally opened and normally closed functionality. The part number for ordering the supervisory pressure switch is 06-118263-001.

## SPECIFICATION

<b>Setting:</b>	305 PSI (21 bar) on falling pressure
<b>Electrical Rating:</b>	5 Amps, 250 Vac
<b>Wire Color Coding:</b>	Blue - Normally Open Black - Normally Closed Violet - Common
<b>Operating Temperature Range:</b>	32°F to 130°F (0°C to 54°C)
<b>Pressure Connection:</b>	0.25-27 inch NPT male connector
<b>Wetted Materials:</b>	EPR, Brass
<b>Lead Length:</b>	36 in. ± 2 in. (914 mm ± 50 mm)

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