

Kidde Fire System Component Description

Supervisory Pressure Switches

FEATURES

- Both Normally Open and Normally Closed Configuration with One Unit
- For Approvals, see the “Compatibility” table.

DESCRIPTION

Cylinder supervisory pressure switches are intended to detect a fall in pressure in a Kidde Fire Systems clean agent or Nitrogen filled driver cylinder. The cylinder supervisory pressure switch can be wired for either normally open or normally closed operation, depending on installation requirements.

OPERATION

When the pressure in the cylinder drops from the standard charge pressure to below the pressure trip setting, 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: For Kidde Fire Systems ADS™ systems using 3M™ Novec™ 1230 fire protection fluid, Kidde Fire Systems recommends using two different supervisory pressure switches. Use 85-111540-001 or 85-111540-100 (ATEX) on the Nitrogen Drivers to monitor the Nitrogen pressure. Use 06-118262-001 or 06-118537-001 (ATEX) on the agent cylinder to monitor the agent pressure.

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.

Disconnect all supply circuits before wiring the supervisory switch. Remove the protective cap from the pressure connection. Do not apply thread compound to the threads. Install the switch with an 1-1/16 inch open-ended wrench while holding the pressure connection with a 7/16 inch open-end wrench. Tighten hand-tight, plus one-quarter turn.

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.






SPECIFICATIONS

Setting:	See Table 1
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:	0.25 in. SAE 45° flare female with valve core deflector
Wetted materials:	EPR, Brass Copper
Lead length:	36 in. ± 2 in. (914 mm ± 50 mm)

ORDER INFORMATION

Table 1. Supervisory Pressure Switch Specifications

Switch	Part Numbers	Band Color	Pressure Trip Setting	Compatible with
	85-111540-001 85-111540-100 (ATEX)	Blue	1540 psig (106.2 bar)	ADS™ Systems Nitrogen Drivers Nitrogen Pilot Cylinders Nitrogen Siren Drivers
	06-118262-001 06-118537-001 (ATEX)	Silver	305 psig (21.0 bar)	ECS™ 360 psi Agent Cylinders
	45-118500-001 45-500537-001 (ATEX)	Orange	435 psig (30.0 bar)	ECS-500™ psi Agent Cylinders
* For 3" Valves sold before May 1, 2013, use P/N 06-118263-001 for the standard supervisory pressure switch and 06-118398-001 for ATEX approved supervisory pressure switch.				

COMPATIBILITY

System	DIOM P/N	Applicable Agencies
ECS-500™ System	06-237585-001	UL, FM
ECS-500™ Marine System	06-237589-001	UL, USCG
ECS™ 360 with 3M™ Novec™ 1230 Fire Protection Fluid	06-236553-001	UL, FM
ADS™ with 3M™ Novec™ 1230 Fire Protection Fluid	06-237256-001	UL, FM
ECS™ 360 Marine with 3M™ Novec™ 1230 Fire Protection Fluid	06-236559-001	UL, USCG
ADS™ Marine with 3M™ Novec™ 1230 Fire Protection Fluid	06-237257-001	UL, USCG
ECS™ 360 with HFC-227ea System	06-236115-001	UL, FM
ECS™ 360 Marine with HFC-227ea System	06-236225-001	UL, USCG
ADS™ Marine with HFC-227ea System	06-236595-001	UL, USCG
ADS™ with HFC-227ea System	06-236068-001	UL, FM
ECS™ 360 with Novec™ 1230 (India) System	06-237127-600	UL
ECS™ 360 with FM-200™ (India) System	06-237298-001	UL
Natura™ Inert Gas System*	06-237619-001	UL, FM
*For Natura Inert Gas Systems, the supervisory pressure switch can only be used on Nitrogen Pilot and Siren Drivers. It cannot be used for the Nature agent cylinder.		

EXPORT INFORMATION (USA)

Jurisdiction: EAR

Classification: EAR99

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