

Kidde Fire Systems

ECS-500™ psi System

Component Datasheet



Supervisory Pressure Switch

Effective: January 2019
K-45-0514 Rev AB

FEATURES

- Both Normally Open and Normally Closed Configuration with One Unit
- Suitable for 10 lb. through 1100 lb. Kidde Fire Systems ECS-500™ psi Systems cylinders
- UL Listed, ULC Listed, and FM Approved for use with ECS-500™ Systems

P/N: 45-118500-001 and 45-500537-001

DESCRIPTION

The cylinder supervisory pressure switch is intended to detect a fall in pressure in the Kidde Fire Systems ECS-500™ psi Systems 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 ECS-500™ System cylinders, 10 lb. through 1100 lb. size.

OPERATION

When the pressure in the ECS-500 System container drops from the standard charge pressure of 500 PSI (35 bar) to below 435 PSI (30 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.

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 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. Disconnect all supply circuits before wiring the supervisory switch.

ORDER 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 45-118500-001 or 45-500537-001 (ATEX Approved).

Note: The supervisory pressure switch differentiator is an orange color band on both the box and switch.



SPECIFICATIONS

Setting:	435 PSI (30 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:	0.25 in. SAE 45° flare female with valve core deflector
Wetted materials:	EPR, Brass Copper
Lead length:	36 in. ± 2 in. (914 mm ± 50 mm)

EXPORT INFORMATION (USA)

Jurisdiction: EAR

Classification: EAR99

This document contains technical data subject to the EAR.

All trademarks are property of their respective owners.

This literature is provided for informational purposes only. KIDDE-FENWAL, INC. believes this data to be accurate, but it is published and presented without any guarantee or warranty whatsoever. KIDDE-FENWAL, INC. assumes no responsibility for the product's suitability for a particular application. Product features specified are only applicable when the fire suppression system is correctly designed, installed, maintained and serviced by trained, authorized Kidde Fire Systems distributors as per the applicable design, installation, operation, and maintenance manuals. If you need more information on this product, or if you have a particular problem or question, contact: KIDDE-FENWAL, INC., Ashland, MA 01721 USA, Telephone: (508) 881-2000.

Kidde Fire Systems
400 Main Street
Ashland, MA 01721
Ph: 508.881.2000
Fax: 508.881.8920
www.kiddefiresystems.com