

EPSEXP Series Explosion Proof Alarm Pressure Switch



Models Available

EPS10EXP
EPS40EXP
EPS120EXP

Replacement Parts

EPSRK Hardware Kit
G07-0151-000 O-ring for Cover



Product Overview

Designed and approved to operate in hazardous locations

NEMA 4 enclosure rating

Field-adjustable pressure sensitivity

1/2" NPT male brass fitting

Synchronized activation circuit

Two conduit entrances

System Sensor's EPSEXP series is designed to handle extreme conditions. These units are ideal for installation in hazardous locations classified as follows:

Class I, Groups B, C, D, Division 1 & 2
Class II, Groups E, F, G, Division 1 & 2
Class III, Division 1 & 2

Robust Construction. The EPSEXP series consists of a rugged, NEMA 4 rated cast aluminum housing. Designed for both indoor and outdoor use, the EPSEXP series operates across a wide temperature range, from -40°F to 160°F.

Reliable Performance. The EPSEXP series cover is secured with a tamper resistant screw to prevent unauthorized tampering. Inside, two sets of SPDT (Form C) synchronized switches are enclosed in a durable terminal block to assure reliable performance.

Simplified Operation. Like all System Sensor pressure switches, the EPSEXP series is designed to easy installation. The EPSEXP series includes a pressure adjustment wheel that requires no special tools. This feature permits field-adjusting of the activation switch.



Engineering Specifications

Model shall be EPS10EXP or EPS40EXP or EPS120EXP pressure type waterflow switch as manufactured by System Sensor of St. Charles, IL. They shall be installed on the sprinkler system with connection as shown on the drawings and/or as specified herein. Pressure switches shall be of the bellows activated type. Switches shall have a maximum service rating of 250 psi and shall be factory adjusted to operate at a pressure as follows: EPS10EXP: 4 to 8 psi, EPS40EXP: 10 to 100 psi, EPS120EXP: 10 to 200 psi. There shall be two (2) contacts rated at 10.0 A @ 125/250 VAC and 2.5 A @ 6/12/24 VDC. The contractor shall furnish and install, where indicated on the plans, pressure switches according to appropriate NFPA standards. Switches shall be provided with 1/2" NPT male connection to be connected into the air supply line on the system side of any shut-off valve. Switches shall provide one (1) knockout type and one (1) open hole for 1/2" conduit fitting attachment and a ground screw provision for electrical grounding. The switch enclosure shall be weatherproof and carry a NEMA 4 rating when used with proper electrical fittings and conduit. The cover shall incorporate a tamper-resistant screw. Switches shall be listed by Underwriters Laboratories. It shall be rated for use in hazardous locations classified as Class I, Division 1, Groups B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1.

Standard Specifications

Hazardous Locations Classifications

Class I, Div 1, Groups B, C, D
Class II, Div 1, Groups E, F, G
Class III, Div 1

Maximum System Pressure

250 psi (max)

Pressure Connection

1/2" NPT male brass fitting

Contact Ratings

Two sets of SPDT (Form C)
10.0 A, 1/2 hp @ 125/250 VAC
2.5 A @ 6/12/24 VDC

Overall Dimensions Installed

4.9"W x 9.5"H

Conduit Entrances

Two openings for 1/2" conduit

Operating Temperature Range

-40°F to 160°F (-40°C to 71°C)

Enclosure Rating

NEMA 4—suitable for indoor/outdoor use

Shipping Weight

6.2 lbs.

Service Use

Automatic Sprinkler: NFPA-13
National Fire Alarm Code: NFPA-72

Warranty

3 years

Pressure Ratings

Model Number	Maximum Adjustment Factory Setting	Pressure Range	Differential
EPS10EXP	Operates at rising pressure of 4 to 8 psi	4 to 20 psi	Approx. 3 psi throughout range
EPS40EXP	Operates on increase at 50 psi and on decrease at 30 psi	10 to 100 psi	Approx. 3 psi @ 10 psi, 6 psi @ 100 psi
EPS120EXP	Operates on increase at 125 psi and on decrease at 105 psi	10 to 200 psi	Approx. 3 psi @ 10 psi, 9 psi @ 200 psi

Ordering Information

Model Number	Pressure Range
EPS10EXP	4 to 20 psi
EPS40EXP	10 to 100 psi
EPS120EXP	10 to 200 psi

Part Number	Description
EPSRK	Replacement Hardware Kit (contains tamper screws, wrenches and conduit plug)
G07-0151-000	O-ring for cover

System Sensor Sales and Service

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