

EPSEXP Series Explosion Proof Alarm Pressure Switch

System Sensor's EPSEXP series is designed to handle extreme conditions.



Features

- Designed and approved to operate in hazardous locations
- Rugged NEMA 4 rated cast aluminum housing
- Field-adjustable pressure sensitivity
- 1/2" NPT male brass fitting
- · Synchronized activation circuit
- Two conduit entrances
- Tamper resistant screw
- SPDT (Form C) synchronized switches enclosed in a durable terminal block

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 for easy installation. The EPSEXP series includes a pressure adjustment wheel that requires no special tools. This feature permits field-adjusting of the activation switch.

Agency Listings









116 7770-1653

3005863

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EPSEXP Specifications

Architectural/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 ½ 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 ½ 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			
Pressure Connection ½" NPT male brass fitting Contact Ratings Two sets of SPDT (Form C) 10.0 A, ½ hp @ 125/250 VAC 2.5 A @ 6/12/24 VDC Overall Dimensions Installed 4.9" W × 9.5" H Conduit Entrances Two openings for ½" 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 Maximum Adjustment Factory Setting Pressure Range Differential EPS10EXP Operates at rising pressure of 4 to 8 psi 4 to 20 psi Approx. 3 psi @ 10 psi, 6 psi @ 100 psi 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		Class II, Div 1, Groups E, F, G		
Contact Ratings Two sets of SPDT (Form C) 10.0 A, ½ hp @ 125/250 VAC 2.5 A @ 6/12/24 VDC Overall Dimensions Installed 4.9" W × 9.5" H Conduit Entrances Two openings for ½" 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 on increase at 50 psi and on decrease at 30 psi 10 to 100 psi Approx. 3 psi @ 10 psi, 6 psi @ 100 psi	Maximum System Pressure	250 psi (max.)		
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the control of the co	EPS10EXP	Operates at rising pressure of 4 to 8 psi	4 to 20 psi	Approx. 3 psi throughout range
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	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 No.	Pressure Range
EPS10EXP	4 to 20 psi
EPS40EXP	10 to 100 psi
EPS120EXP	10 to 200 psi
Accessories	
EPSRK	Replacement Hardware Kit (contains tamper screws, wrenches, and conduit plug
G07-0151-000	O-ring for cover

