



**SYSTEM  
SENSOR®**



## **EPSA120-1 AND EPSA120-2 Supervisory Pressure Switches**

*System Sensor EPSA120 Series switches are designed to supervise system air pressure in pipes or pressure tanks, as well as water or air pressure supplies of automatic water control valves.*



### **Features**

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- Pressure adjustment wheel, no special tools required
- Field adjustable pressure sensitivity
- Factory set for use in a nominal 115 psi system
- Reinforced diaphragm resists pressure spikes
- Two conduit entrances provided
- NEMA 4 rated

The EPSA120-1 has a single SPDT switch while the EPSA120-2 model contains two SPDT switches. The EPSA120 Series features field adjustable pressure sensitivity to provide an alarm response between 10 and 200 psi. All models are factory set for use in a nominal 115 psi system. The EPSA120-1 is factory set to respond at 105 psi at decreasing pressure while the EPSA120-2 is factory set to respond at 125 psi on rising pressure and 105 psi on decreasing pressure. The pressure adjustment wheel requires no special tools and does not affect switch synchronization on the EPSA120-2.

### **Agency Listings**

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# EPSA120 Series Specifications

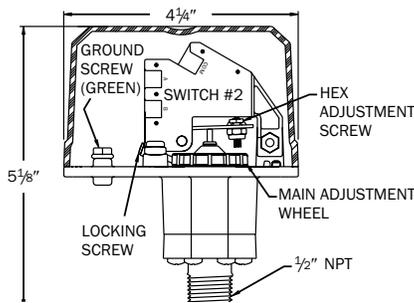
## Architectural/Engineering Specifications

Model shall be an EPSA120-1 or EPSA120-2 pressure type waterflow switch as manufactured by System Sensor. 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 pressure rating of 250 psi and shall be adjustable from 10–200 psi. There shall be one (1) or two (2) SPDT contacts rated at 10.0 Amp @ 125/250 VAC and 2.5 Amp @ 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 a 1/2" NPT male pressure connection to be connected into the air supply line on the system side of any shut-off valve. Switches shall provide 1 knockout type and 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 UL 4x/NEMA 4 rating when used with proper electrical fittings and conduit. The cover shall incorporate tamper-resistant screws. The unit shall be listed by ULC.

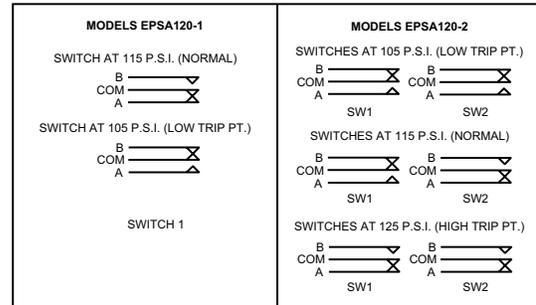
## Physical/Operating Specifications

<b>Maximum Operating Pressure</b>	250 psi	<b>Differential</b>	Approximately 3 psi @ 10 psi, 9 psi @ 200 psi
<b>Pressure Connection</b>	1/2" NPT male	<b>Enclosure</b>	Rated UL 4x, NEMA 4 for indoor or outdoor use
<b>Maximum Adjustment Pressure Range</b>	100 to 200 psi	<b>Dimensions</b>	5.12" H x 3.325" W x 4.250" L (13.0 cm x 8.4 cm x 10.8 cm)
<b>Operating Temperature Range</b>	Indoor or outdoor use -40°C to 71°C (-40°F to 160°F)	<b>Cover Tamper Switch</b>	UL Models: Optional P/N 546-8000 ULC Models: Factory Installed
<b>Factory Setting</b>	EPSA120-1 operates at decreasing pressure at 105 psi EPS120-2 operates at increasing pressure at 125 psi and decreasing pressure at 105 psi	<b>Service Use</b>	Automatic Sprinkler: NFPA 13 One or Two Family Dwelling: NFPA 13D Residential Occupancies up to 4 Stories: NFPA 13R National Fire Alarm Code: NFPA 72
<b>Switch Contact Ratings</b>	EPSA120-1: One set SPDT (Form C) EPSA120-2: Two sets SPDT (Form C) 10.0 A, 1/2 HP @ 125/250 VAC 2.5 A @ 6/12/24 VDC	<b>Shipping Weight</b>	1.2 lbs. (.54 Kg)
		<b>Warranty</b>	3 years

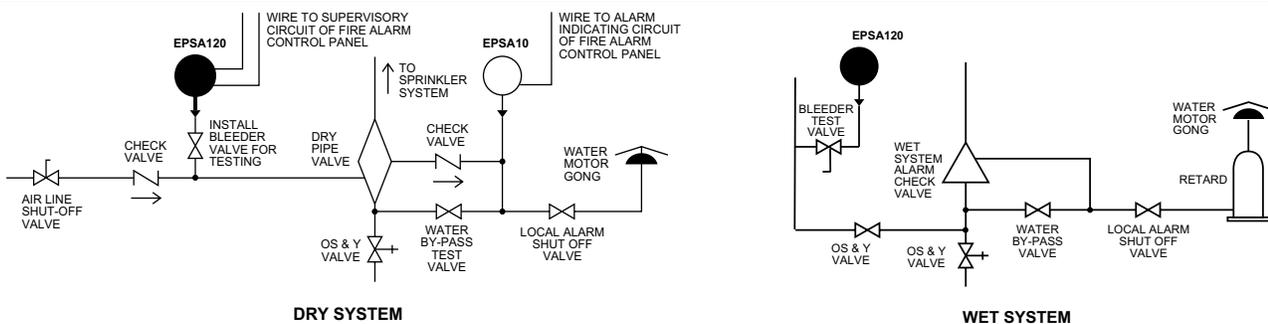
## Pressure Switch Basic Dimensions



## Electrical Connections



## Typical Sprinkler Applications



## Ordering Information

Plastic Fitting Model No.	Description
EPSA120-1P	Low pressure supervisory switch, one SPDT, 10–200 PSI
EPSA120-2P	High/low pressure supervisory switch, two SPDT, 10–200 PSI
<b>Replacement Parts</b>	
S07-66-XX	Replacement tamper screws for cover of EPSA
WFDW	Replacement tamper proof wrench for cover of EPSA
546-8000	Cover tamper switch for EPSA Series



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