



## EPS10-1 and EPS10-2 Alarm Pressure Switches

*System Sensor EPS10 Series switches are designed for use in wet, dry, deluge, and pre-action automatic sprinkler systems to indicate a discharge from a sprinkler.*



### Features

- Sensitivity adjustment wheel, no special tools required
- Reinforced diaphragm resists pressure spikes
- Two conduit entrances
- Both one- and two-switch models available

The EPS10-1 has a single SPDT switch while the EPS10-2 model contains two SPDT switches. The EPS10 Series features field adjustable pressure sensitivity to provide an alarm response between 4 and 20 psi. It is factory set to respond at 4 – 8 psi on rising or falling pressure. The pressure adjustment wheel requires no special tools and does not affect switch synchronization on the EPS10-2. The EPS10 Series switches are NEMA 4 rated.

### Agency Listings



7770-1209;147



G4020028-27

### Specifications, EPS10-1 and EPS10-2

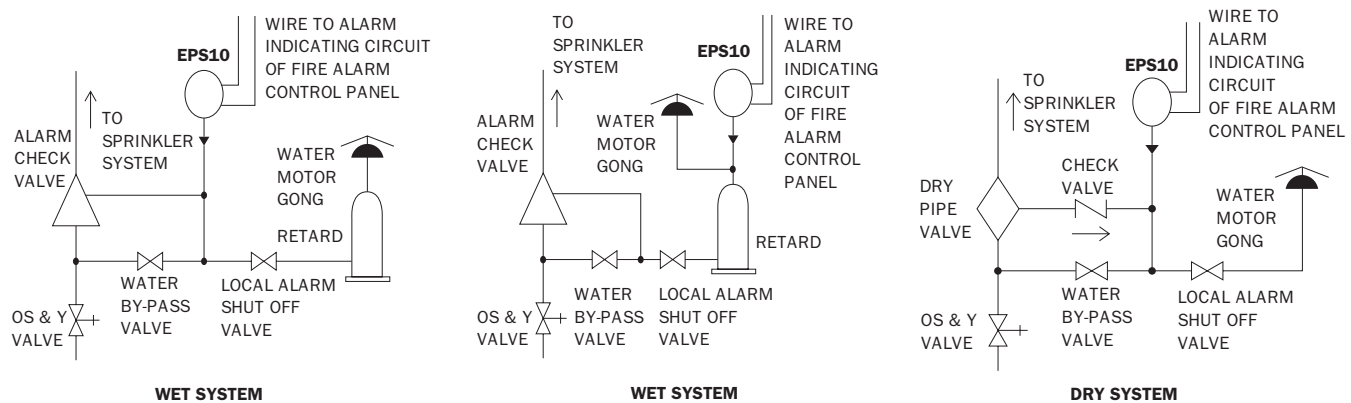
#### Architectural/Engineering Specifications EPS10-1 (SPDT), EPS10-2 (2/SPDT)

Model shall be an EPS10-1 or EPS10-2 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 pressure rating of 300 psi and shall be factory adjusted to operate at a pressure of 4 – 8 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 ½" NPT male pressure connection to be connected to the alarm check valve of a "wet" sprinkler system, into the intermediate chamber of a "dry" system, or to a pre-action or deluge valve. They shall be activated by any flow of water equal to or in excess of the discharge from one sprinkler head. Switches shall provide 1 knockout type and 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 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 Underwriters Laboratories, Inc. and approved by Factory Mutual.

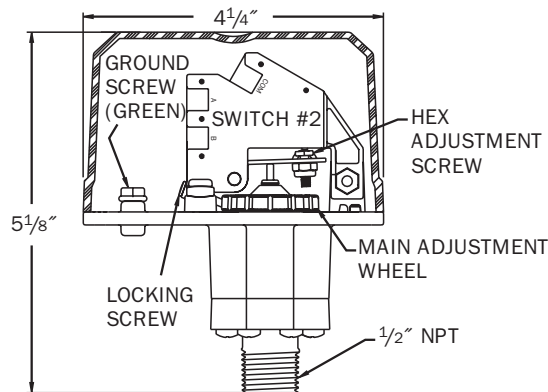
## Specifications, EPS10-1 and EPS10-2 (continued)

| Physical/Operating Specifications        |  |                                    |  |
|--|--|------------------------------------|--|
| <b>Maximum Operating Pressure</b>        | 300 psi  | <b>Operating Temperature Range</b> | Indoor or outdoor use:<br>-40°F to 160°F (-40°C to 71°C)   |
| <b>Maximum Adjustment Pressure Range</b> | 4 to 20 psi  | <b>Cover Tamper Switch</b>         | UL Models: Optional P/N 546-8000<br>ULC Models: Factory Installed  |
| <b>Differential</b>                      | Approximately 3 psi throughout range   | <b>Enclosure</b>                   | Rated UL 4x, NEMA 4 for indoor or outdoor use  |
| <b>Factory Setting</b>                   | Operates at rising pressure 4 to 8 psi   | <b>Shipping Weight</b>             | 1.2 lbs. (.54 Kg)  |
| <b>Switch Contact Ratings</b>            | EPS10-1: One set SPDT (Form C)<br>EPS10-2: Two sets SPDT (Form C)<br>10.0 A, ½ HP @ 125/250 VAC<br>2.5 A @ 6/12/24 VDC | <b>Service Use</b>                 | Automatic Sprinkler: NFPA 13<br>One or Two Family Dwelling: NFPA 13D<br>Residential Occupancies up to 4 Stories: NFPA 13R<br>National Fire Alarm Code: NFPA 72 |
| <b>Pressure Connection</b>               | ½" NPT male glass reinforced nylon   | <b>Warranty</b>                    | 3 years  |
| <b>Dimensions</b>                        | 5.12" H × 3.325" W × 4.250" L<br>(13.0 cm × 8.4 cm × 10.8 cm)  |                                    |  |

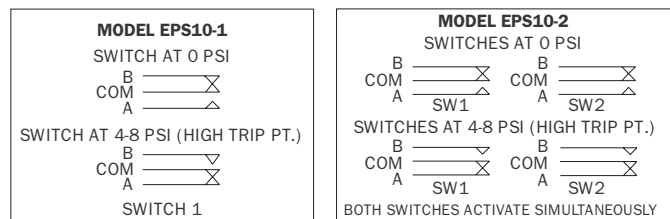
## Typical Sprinkler Applications



## Pressure Switch Basic Dimensions



## Electrical Connections



## Ordering Information

| Part No.                 | Description   |
|--------------------------|---|
| EPS10-1                  | Alarm Waterflow Pressure Switch, One SPDT, 4-20 PSI |
| EPS10-2                  | Alarm Waterflow Pressure Switch, Two SPDT, 4-20 PSI |
| EPSA10-1                 | ULC/Canadian Version                                |
| EPSA10-2                 | ULC/Canadian Version                                |
| <b>Replacement Parts</b> |   |
| S07-66-02                | Replacement Tamper Screws for Cover of EPS          |
| WFDW                     | Replacement Tamper Proof Wrench for Cover of EPS    |
| 546-8000                 | Cover Tamper Switch for EPS Series                  |



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