

EPSA40-1 AND EPSA40-2 Supervisory Pressure Switches

System Sensor EPSA40 Series switches are designed for use in dry pipe systems or pressure tanks and water pressure supplies of automatic water control valves.



Features

- · Sensitivity adjustment wheel, no special tools required
- Reinforced diaphragm resists pressure spikes
- Two conduit entrances
- Both one- and two-switch models available
- NEMA 4 rated

Agency Listings



The EPSA40-1 has a single SPDT switch while the EPSA40-2 model contains two SPDT switches. The EPSA40 Series features field adjustable pressure sensitivity to provide an alarm response between 10 and 100 psi. All models are factory set for use in a nominal 40 psi system. The EPSA40-1 is factory set to respond at 30 psi at decreasing pressure while the EPSA40-2 is factory set to respond at 50 psi on rising pressure and 30 psi at decreasing pressure. The pressure adjustment wheel requires no special tools and does not affect switch synchronization on the EPSA40-2. The EPSA40-1 and EPSA40-2 supervisory pressure switches are NEMA 4 rated.

Specifications, EPSA40-1 and EPSA40-2

Architectural/Engineering Specifications EPSA40-1 (SPDT), EPSA40-2 (2/SPDT)

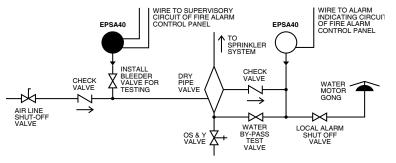
Model shall be an EPSA40-1 or EPSA40-2 pressure type waterflow switch as manufactured by System Sensor. They shall be installed on the sprinkler system with connection as shown on the drawings and/or as specified herein. Pressure switches shall be of the bellows-activated type. Switches shall have a maximum service pressure rating of 250 psi and shall be adjustable from 10 – 100 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 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 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 ULC.

Specifications, EPSA40-1 and EPSA40-2 (continued)

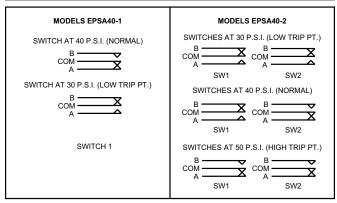
Physical/Operating Spec	cifications		
Maximum Operating Pressure	250 psi	Operating Temperature Range	Indoor or outdoor use: –40°C to 71°C (–40°F to 160°F)
Maximum Adjustment Pressure Range	10 to 100 psi	Cover Tamper Switch	UL Models: Optional P/N 546-8000 ULC Models: Factory Installed
Differential	Approximately 3 psi @ 10 psi, 6 psi @ 100 psi	Enclosure	Rated UL 4x, NEMA 4 for indoor or outdoor use
Factory Setting	EPSA40-1 operates at decreasing pressure at 30 psi EPSA40-2 operates at increasing pressure at 50 psi and decreasing pressure at 30 psi	Shipping Weight	1.2 lbs. (.54 Kg)
Switch Contact Ratings	EPSA10-1: One set SPDT (Form C) EPSA10-2: Two sets SPDT (Form C) 10.0 A, ½ HP @ 125/250 VAC 2.5 A @ 6/12/24 VDC	Service Use	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
Pressure Connection	1/2" NPT male	Warranty	3 years
Dimensions	5.12" H × 3.325" W × 4.250" L (13.0 cm × 8.4 cm × 10.8 cm)		

Typical Sprinkler Applications

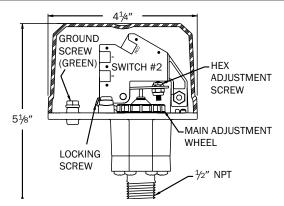


DRY SYSTEM

Electrical Connections



Pressure Switch Basic Dimensions



Ordering Information

Part No.	Description	
EPSA40-1P	Low Pressure Supervisory Switch, One SPDT, 10–100 PSI - Plastic Fitting	
EPSA40-2P	High/Low Pressure Supervisory Switch, Two SPDT, 10–100 PSI - Plastic Fitting	
Replacement Parts		
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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