## Data Sheet 2.4 Issue A



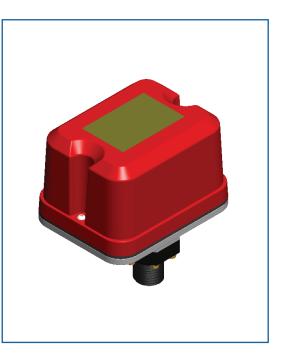
# EPS40-1 AND EPS40-2 **Supervisory Pressure Switches**

## **Description**

EPS40 Series switches are designed foruse in dry pipe systems or pressure tanks and waterpressure supplies of automatic water control valves.

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

The EPS40-1 has a single SPDT switch while the EPS40-2 model contains two SPDT switches. The EPS40 Series features fi eld 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 EPS40-1 is factory set to respond at 30 psi at decreasing pressure while the EPS40-2 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 aff ect switch synchronization on the EPS40-2. The EPS40-1 and EPS40-2 supervisory pressure switches are NEMA 4 rated.



## Specifications, EPS40-1 and EPS40-2

#### Architectural/Engineering Specifications EPS40-1 (SPDT), EPS40-2 (2/SPDT)

Model shall be an EPS40-1 or EPS40-2 pressure type waterflow switch as supplied by Rapidrop Global Ltd. They shall be installed on the sprinkler system with connection as shown on the drawings and/or as specifi ed 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 fi tting 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., the California State Fire Marshal, MEA, CSFM, LPCB, VdS and approved by Factory Mutual.

Maximum Operating	250 pci	Oneveting Temperature	Indoor or outdoor use:
	250 psi	Operating Temperature	
Pressure		Range	–40°F to 160°F (–40°C to 71°C)
Maximum Adjustment	10 to 100 psi	Cover Tamper Switch	UL Models: Optional P/N 546-8000
Pressure Range			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	EPS40-1 operates at decreasing pressure at 30 psi Shipping Weight		1.2 lbs. (.54 Kg)
	EPS40-2 operates at increasing pressure at 50 p	osi	
	and decreasing pressure at 30 psi		
Switch Contact Ratings	EPS40-1: One set SPDT (Form C)	Service Use	Automatic Sprinkler: NFPA 13
	EPS40-2: Two sets SPDT (Form C)		One or Two Family Dwelling: NFPA 13D
	10.0 A, ½ HP @ 125/250 VAC		Residential Occupancies up to 4 Stories: NFPA 13F
	2.5 A @ 6/12/24 VDC		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)		

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**Continued overleaf Rapidrop Global** Rutland Business Park, Newark Road, Peterborough, PE1 5WA, United Kingdom Tel: +44 (0) 1733 847 510 Fax: +44 (0) 1733 553 958 e-mail: rapidrop@rapidrop.com web: www.rapidrop.com

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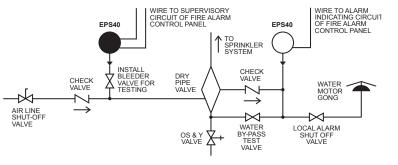
VdS



# Rapidrop

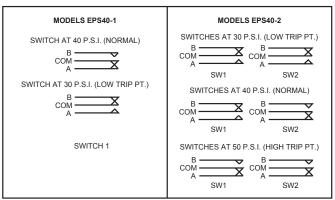
# EPS40-1 AND EPS40-2 Supervisory Pressure Switches

## Typical Sprinkler Applications

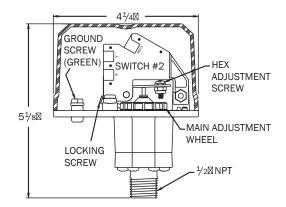


DRY SYSTEM

### **Electrical Connections**



## Pressure Switch Basic Dimensions



#### Ordering Information

Part No.	Description	
EPS40-1	Low Pressure Supervisory Switch, One SPDT, 10–100 PSI	
EPS40-2	High/Low Pressure Supervisory Switch, Two SPDT, 10–100 PSI	
EPSA40-1	Low Pressure Supervisory Switch, One SPDT, 10–100 PSI (ULC Model)	
EPSA40-2	High/Low Pressure Supervisory Switch, Two SPDT, 10–100 PSI (ULC Model)	
Replacement Parts		
S07-66-XX	Replacement Tamper Screws for Cover of EPS	
WFDW	Replacement Tamper Proof Wrench for Cover of EPS	
546-8000	Cover Tamper Switch for EPS Series	





MEA

approved

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