# INTERRUPTORES DE PRESIÓN EPS120-1 Y EPS120-2



- Pressure adjustment wheel, no special tools required.
- Field-adjustable pressure sensitivity.
- Factory set for use in a nominal 7,93 bar (115 psi) system.
- Reinforced diaphragm resists pressure spikes.
- Two conduit entrances provided.
- NEMA 4 rated.

***System Sensor EPS120 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.***

The EPS120-1 has a single SPDT switch. The EPS120-2 model contains two SPDT switches. The EPS120 Series features field-adjustable pressure sensitivity to provide an alarm response between 0,69 bar and 13,79 bar (10 and 200 psi). All models are factory set for use in a nominal 7,93 bar (115 psi) system. The EPS120-1 is factory set to respond at 7,24 bar (105 psi) at decreasing pressure. The EPS120-2 is factory set to respond at 8,62 bar (125 psi) on rising pressure and 7,24 bar (105 psi) on decreasing pressure. The pressure adjustment wheel requires no special tools and does not affect switch synchronization on the EPS120-2.

**EPS120 Series Specifications**

**Architectural/Engineering Specifications**

Model shall be an EPS120-1 or EPS120-2 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 adjustable from 0,69-13,79 bar (10-200 psi). There

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 Underwriters Laboratories, Inc. and Underwriters Laboratories of Canada, Inc. and approved by Factory Mutual.

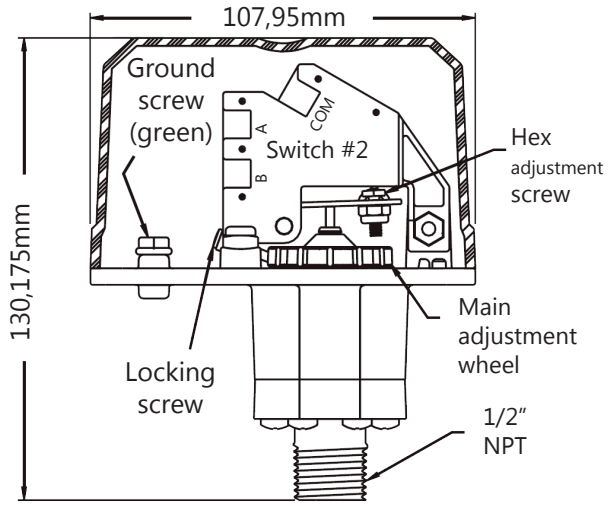
## Physical/Operating Specifications

- Maximum Operating Pressure: 20,68 bar (300 psi).
- Operating TemperatureRange:
  Indoor or outdoor use:
  –40°C to 71°C (–40°F to 160°F).
- Maximum Adjustment Pressure Range:
  0,69 bar to 13,79 bar (10 to 200 psi).
- Cover Tamper Switch:
  UL Models: Optional.
  ULC Models: Factory Installed.
- Differential:

- Enclosure:
  Rated UL 4x, NEMA 4 for indoor or outdoor use.
- Factory Setting:
  EPS120-1 operates at decreasing pressure at 7,24bar (105 psi).
  EPS120-2 operates at increasing pressure at 8,62bar (125 psi) and decreasing pressure at 7,24bar (105 psi).
- Shipping Weight:
  0,54 Kg (1,2 lbs).
- Switch Contact Ratings:
  EPS120-1: One set SPDT (Form C).
  EPS120-2: Two sets SPDT (Form C).

- 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:
  13,0 cm × 8,4 cm × 10,8 cm
  (5,12" H × 3,325" W × 4,250" L).

## Pressure Switch Basic Dimensions




## Electrical Connections

**MODELS EPS120-1**

Switch at 115 psi (normal)




Switch 1

Switch at 105 psi (low trip pt.)



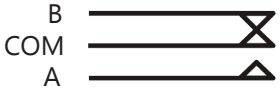

Switch 1

**MODELS EPS120-2**

Switch at 105 psi (low trip pt.):




Switch 1

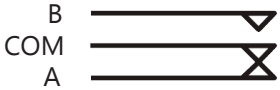



Switch 2

Switch at 115 psi (normal):

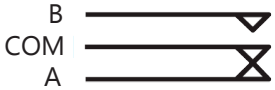



Switch 1

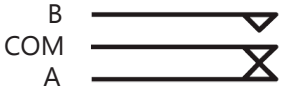



Switch 2

Switch at 125 psi (high trip pt.):




Switch 1




Switch 2

REF: SYPS120_072022_REV0

# TYPICAL SPRINKLER APPLICATIONS

