

Data Sheet 2.36 Issue A

Pressure Switch Model: PS100-2

General Description

The Potter P\$100-2 Pressure Actuated Switches are designed primarily to detect a decrease from normal system pressure in automatic fire sprinkler systems. Typical applications is for an alarm initiating device that is used on a wet system with excess pressure. The P\$100-2 has two SPDT switches factory set to operate on a pressure drop at 6.2 bar (90 psi). See section heading **Adjustments and Testing** if other then factory set point is required.

Installation

- 1. Connect the PS100-2 to the system side of any shutoff or check valve.
- 2. Apply Teflon tape to the threaded male connection on the device. (Do not use pipe dope)
- 3. Device should be mounted in the upright position. (Threaded connection down)
- 4. Tighten the device using a wrench on the flats on the device.

Wiring Instructions

- 1. Remove the tamper resistant screw with the special key provided.
- 2. Carefully place a screwdriver on the edge of the knockout and sharply apply a force sufficient to dislodge the knockout plug. See Fig. 9
- 3. Run wires through an approved conduit connector and affix the connector to the device. A NEMA-4 rated conduit fitting is required for outdoor use.
- 4. Connect the wires to the appropriate terminal connections for the service intended. See Figures 2, 4, 5, 6 and 8

Adjustment And Testing

The operation of the supervisory pressure switch should be tested upon completion of installation and periodically thereafter in accordance with the applicable NFPA codes and standards and/ or the authority having jurisdiction (manufacturer recommends quarterly or more frequently).

NOTE: Testing the P\$100-2 may activate other system connected devices.

The operation point of the PS100-2 Pressure Switch can be adjusted to any point between 1.7 - 12.1 bar (25 - 175 psi) by turning the adjustment knob(s) clockwise to raise the actuation point and counter clockwise to lower the actuation point. Both switches operate independent of each other. Each switch may be independently adjusted to actuate at any point across the switch adjustment range. Initial adjustment can be made with a visual reference from the top of the adjustment knob across to the printed scale on the switch bracket. Final adjustments should be verified with a pressure gauge.



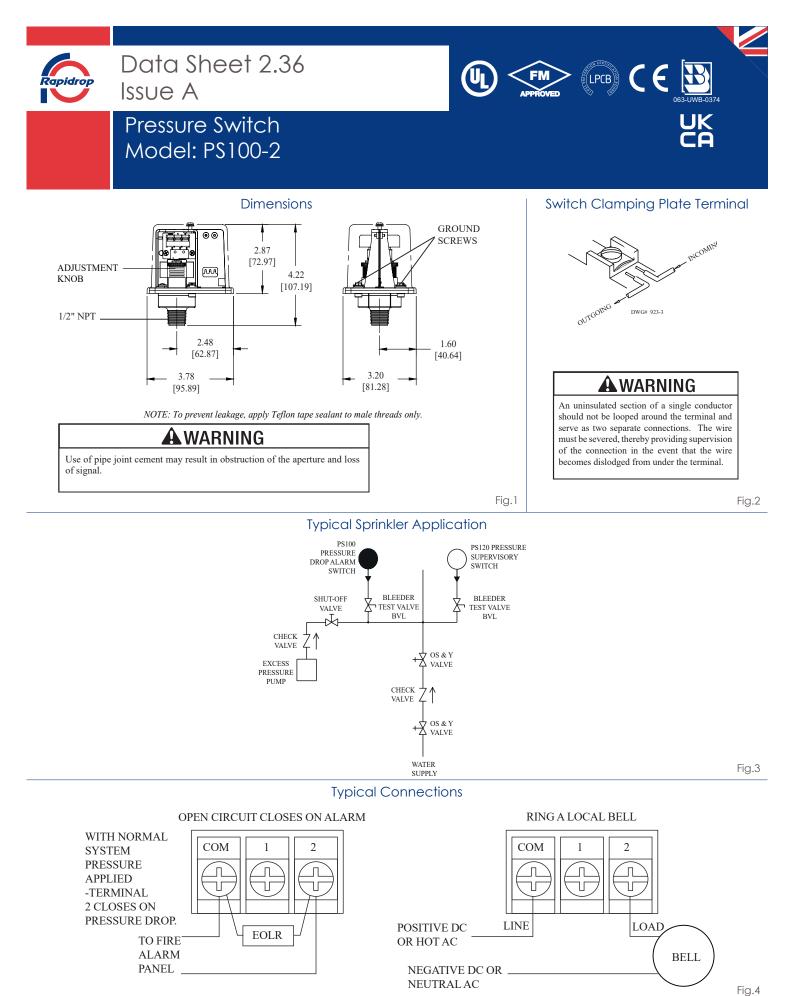
Technical Details

Working Pressure	UL & FM - 20.7 bar (300 psi) LPCB - 17.2 bar (250psi)
Adjustment Range	1.7 - 12.1 bar (25 - 175 psi)
Factory Adjustment	6.2 bar (90 psi)
Differential	Typical 0.14 bar at 1.7 bar (1 psi at 25 psi) 0.55 bar at 12.1 bar (8 psi at 175 psi)
Dimensions	9,6cm x 8,1cm x 10,7cm (W x D x H) 3.78" x 3.20" x 4.22" (W x D x H)
Connection	Nylon 1/2" NPT Male
Contact Ratings	Two SPDT (Form C) 10.1 Amps at 125/250VAC, 2.0 Amps at 30VDC
Conduit Entrances	Two knockouts provided for 1/2" conduit.
Enclosure	Cover: Weather/UV/Flame Resistant High Impact Composite Base: Die Cast All parts have corrosion resistant finishes
Environmental Specification	 NEMA 4/IP66 Rated Enclosure - indoor or outdoor when used with NEMA 4 conduit fittings. Temperature range: -40°C to 60°C (-40° - 140°F)
Service Use	Automatic Sprinkler - NFPA-13 One or two family dwelling - NFPA-13D Residential occupancy up to four stories - NFPA-13R National Fire Alarm Code - NFPA-72

Manufactured by Potter who hold FM Approval, UL Listing, LPCB, CE, UKCA and CNBOP Certificates

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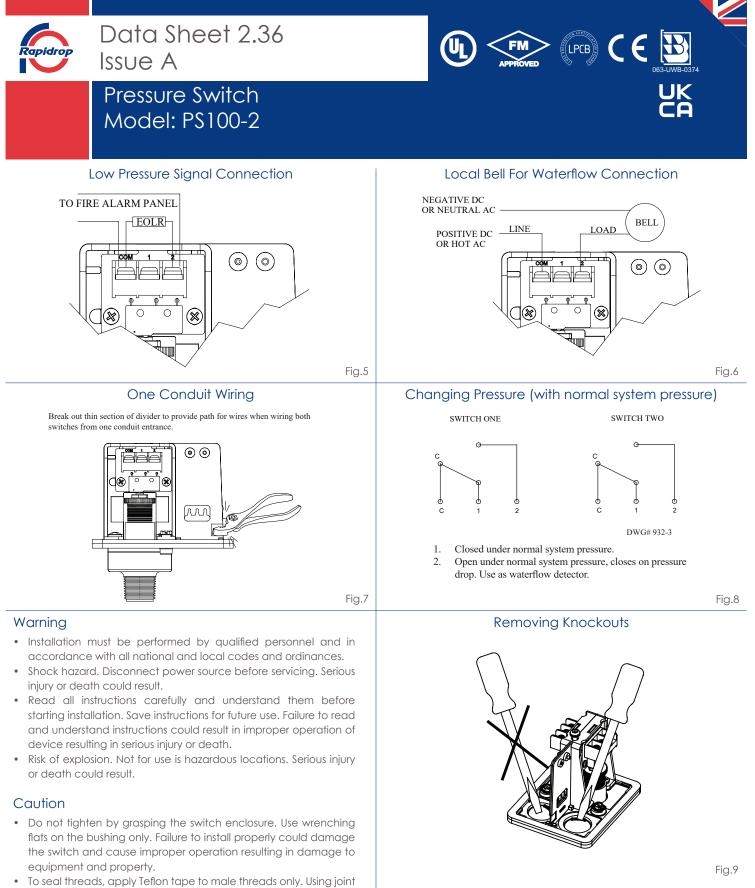


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compounds or cement can obstruct the pressure port inlet and result in improper device operation and damage to equipment.Do not over tighten the device, standard piping practices apply.

Do not apply any lubricant to any component of the pressure switch.

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