



The PRS pressure switches are used for the detection of pressure changes in dry or wet fire sprinkler piping systems.

Characteristics

- All parts have corrosion resistant finishes.
- Indoor and outdoor use.
- One conduit entrance 1/2" NPT male.
- Tamper resistant cover screws (tool included).
- Protection class: IP66.
- UL / ULC Listed and FM Approved.

Application range

Reference	Pressure range		Factory setting		Differential		Number of switches
	bar	psi	bar	psi	bar	psi	
PRS10/1	0,27 - 1,38	4 - 20	0,27 - 0,55	4 - 8	0,21	3	1
PRS10/2	0,27 - 1,38	4 - 20	0,27 - 0,55	4 - 8	0,21	3	2
PRS40/1	0,68 - 6,8	10 - 100	2,1	30	0,21 (at 0,68) / 0,41 (at 6,8)	3 (at 10) / 6 (at 100)	1
PRS120/1	0,68 - 13,8	10 - 200	7,6	110	0,21 (at 0,68) / 0,62 (at 13,8)	3 (at 10) / 9 (at 100)	1

Material specifications

- Aluminum die cast cover, red painted.
- Zinc plated steel base.
- SPDT with the following ratings:
 - 10 Amps at 125/250 V AC.
 - 2.5 Amps at 30 V DC.
 - PRS40/1 and PRS120/1 contains one SPDT.
 - PRS10/2 contains two SPDT.

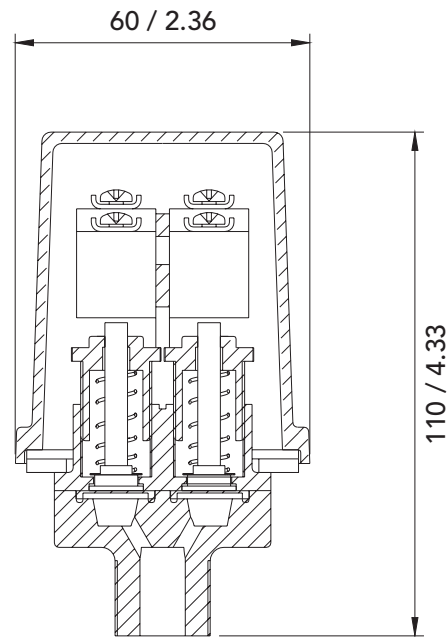
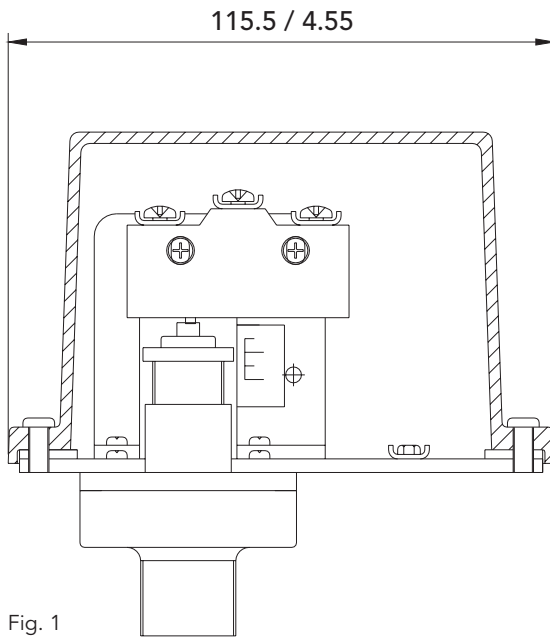
Working temperature

-40°C to +60°C.

Approvals

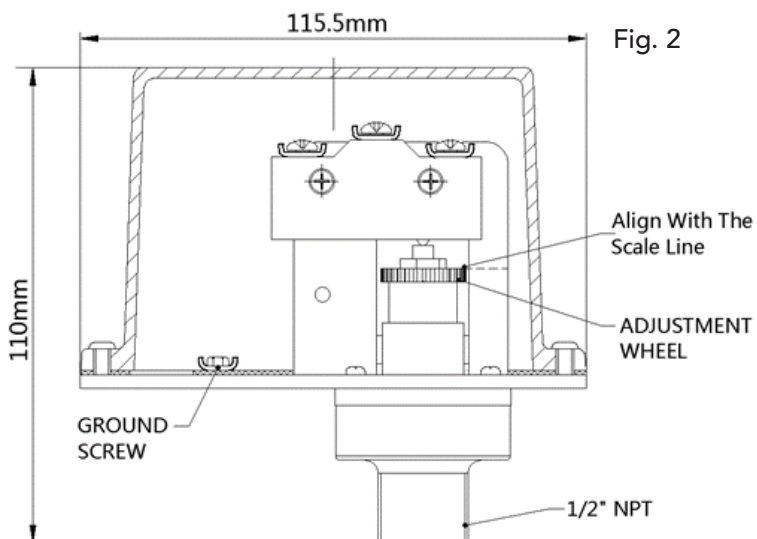
- FM approved to FM standard 3132.
- UL 753 listed.
- CE certified to EN 60947.

Dimensions



△ (Image for PRS with 2 switches)

Installation instructions



1. The device should be mounted in the upright position. Locate it where vibration, shock, and mechanical loading are minimal. The overall dimensions see fig. 2.
2. Mount the device directly to the line via the 1/2" NPT pressure connection. The use of Teflon pipe sealant tape is recommended. Be sure the fitting is tight enough to prevent leaks.
3. Tighten the device using a wrench on the flats of the device.

Typical electrical connections

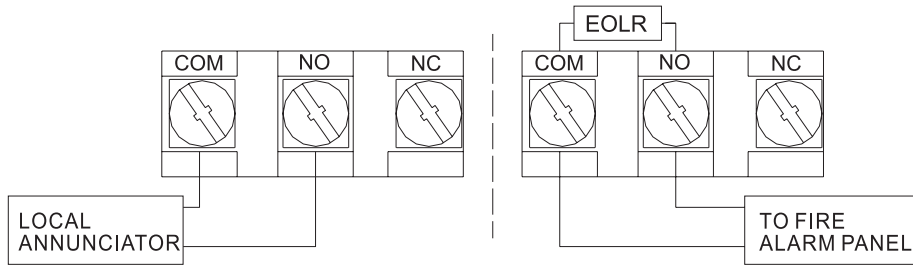
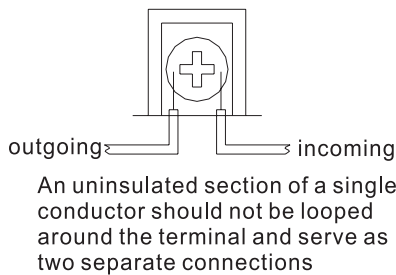


Fig. 3

Wiring instructions

1. Remove the tamper resistant screw with the special key (removal key is enclosed with pressure switch).
2. Run wires through an approved conduit connector and fix the connector to the device.
3. Connect the wires to the appropriate terminal connections for the service intended (see fig. 3).



Note

The assembly is not field replaceable. Do not attempt to disassemble these parts. Carefully consider the following factors when specifying and installing pressure switches. Always refer to the Installation Instruction for specific recommendations on individual devices before installing the unit.

Electrical ratings stated in literature and on nameplates should not be exceeded.

Overload on switch can cause failure on the first cycle. Always wire devices according to national and local electrical codes.

Install units away from shock and vibration. Proper electrical fittings should be used to prevent moisture from entering the enclosure via the conduit.

Test all devices for proper operation after initial installation. Perform preventive maintenance and periodic testing.

Do not tighten by grasping the switch enclosure. Use wrenching flats on the bushing only.

Do not mount unit where ambient temperatures will exceed published limits.

Avoid impact or mechanical loading.

CAUTION!

Do not use in potentially explosive atmospheres. Do not leave unused wires exposed.

GENERAL INFO

- Installers should be trained or experienced to install and understand the product.
- Read and understand all technical datasheets and installation instructions before attempting to install, remove or adjust any Profit piping products.
- Depressurise and drain the sprinkler installation system before attempting to install, remove or adjust any Profit piping products.
- Never work on piping systems that are pressurised and / or filled with water.
- Piping Logistics reserves the right to change specifications, designs and / or standard equipment without notice and without incurring in any obligations.
- Use the necessary Personal Protection Equipment (PPE) to avoid personal injury (helmet, safety shoes and goggles, Profit gloves).



Failure to follow these instructions could result in death or serious injury and property damage.

We advise to always store our products in closed and dry environments, the products do not need any specific maintenance once installed on an above ground sprinkler installation.

REVISION TABLE

Date	△	Notes
15/02/2024		Page 1 - New product picture.
13/08/2025	A	Page 1 - Added the PRS10/1.
13/08/2025	B	Page 1 - Removed information about the SPDT contacts model.
13/08/2025	C	Page 2 - Addition of the footnote.