



Alarm Pressure Switches

Fig. RDEPS10-1 and RDEPS10-2

General Description

RDEPS10 Series pressure switches are designed for use in wet, dry, deluge, and pre-action automatic sprinkler systems to indicate a discharge from a sprinkler. These switches serve the vital role of signalling the discharge from a sprinkler system. With a robust design, they have a maximum service pressure rating of 20.7 bar (300 psi), offering versatile functionality.

Features

- **Adjustable Sensitivity:** Field-adjustable pressure sensitivity ensures a customizable alarm response, ranging from 0.2 to 1.3 bar (4 to 20 psi).
- **Activation Mechanism:** Activated by any water flow equal to or exceeding the discharge from a single sprinkler head, factory pre-set to operate at a pressure of 0.2 - 0.5 bar (4 – 8 psi) on rising or falling pressure.
- **Model Options:** The RDEPS10-1 features a single SPDT switch, while the RDEPS10-2 model includes two SPDT switches, each with contacts rated at 10.0 Amp @ 125/250 VAC and 2.5 Amp @ 6/12/24 VDC.
- **Easy Adjustment:** The pressure adjustment wheel requires no special tools and ensures switch synchronization, excluding the RDEPS10-2.
- **Installation:** Equipped with a ½” NPT male connection, these switches seamlessly connect to the alarm valve of wet systems, the intermediate chamber of dry systems, or pre-action/deluge valves.
- **Conduit Fitting Attachment:** Features 1 knockout type and 1 open hole for ½” conduit fitting attachment.
- **Grounding Provision:** Includes a ground screw provision for electrical grounding.
- **Weatherproof Enclosure:** The switch enclosure is weatherproof and carries a UL 4x/NEMA 4 rating when used with proper electrical fittings and conduit.
- **Tamper-Resistant:** The cover is equipped with tamper-resistant screws.

Approvals

FM Approved
UL Listed



Specification

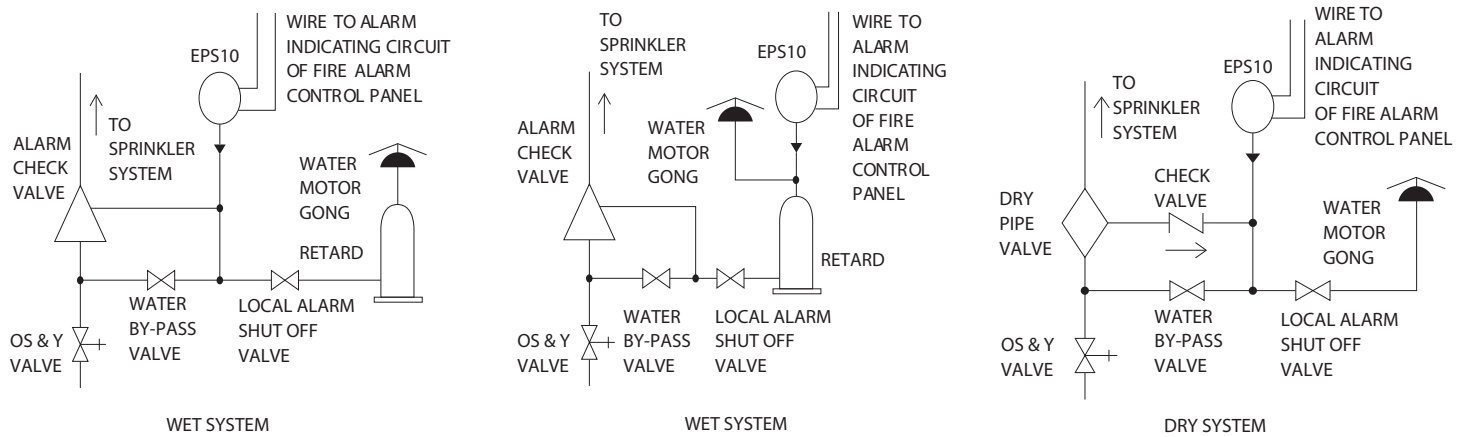
Maximum Working Pressure	20.7 bar (300 psi)
Maximum Adjustment Pressure Range	0.2 to 1.3 bar (4 to 20 psi)
Differential	Approximately 0.2 bar (3 psi) throughout range
Factory Setting	Operates at rising pressure 0.2 to 0.5 bar (4 to 8 psi)
Switch Contact Ratings	EPS10-1: One set SPDT (Form C) EPS10-2: Two sets SPDT (Form C) 10.0 A, ½ HP @ 125/250 VAC 2.5 A @ 6/12/24 VDC
Pressure Connection	½” NPT male glass reinforced nylon
Dimensions	130 × 84 × 108 mm (5.12” H × 3.325” W × 4.250” L)
Operating Temperature Range	Indoor or outdoor use: –40°C to 71°C (–40°F to 160°F)
Enclosure	Rated UL 4x, NEMA 4 for indoor or outdoor use
Shipping Weight	0.54 Kg (1.2 lbs.)
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



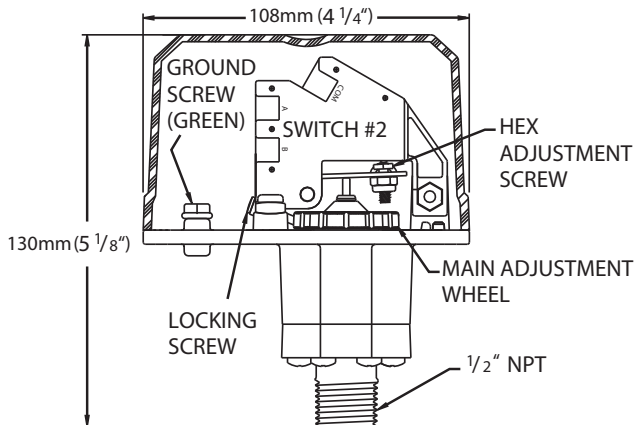
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Fig. RDEPS10-1 and RDEPS10-2

Typical Sprinkler Applications



Pressure Switch Basic Dimensions



Electrical Connections

