

Rail Heating Products & Services
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GPRH (600V to 900VDC)

Switch Rod/Ballast Heaters

Application: Actuator Rod Snow and Ice Melting

Switch rod/Ballast (GPRH) heaters are designed specifically to keep switch actuator rods free and clear of snow and ice. These heaters have a flat heating surface and are positioned underneath the rails directly below the switch's actuator rods or attached directly to the adjacent ties. The heater's standard output is nominally 85 watts/ft² at the specified operating voltage. Optional rail braces are available for anchoring heater in place.

Design . . .

GPRH heaters are manufactured to meet the specific needs of each transit company based on the available power supply, connection option and length required.

Installation . . .

The standard GPRH heaters are 3/4" high assemblies measuring 7" wide X 36", 54" & 72" long. These rugged heaters use Cam-Lok watertight twist to lock connectors for ease of installation and removal. Heaters can be purchased with or without the required Cam-Lok 15 foot long extension leads for making power connection.

Construction . . .

Inside the GPRH heater is a rugged, power limiting type heating cable affixed and spaced to provide a uniform temperature profile across the inside surface of the top heater panel. The heater cable is secured in place on the panel with 2" aluminum tape. The 6 foot long heater cold lead is terminated inside the unit and exit through the end of the heater.

A single layer of 3/8" silicone foam is laid over top of the heater cable and terminations covering the entire internal area.

The lid and panel shall be held together using the steel piercing rivets applied with a rivet stamping press.

GPRH heaters shall be painted with Safety Yellow or Light Gray epoxy as specified by the customer and marked with red lettering three inches (3") high. The lettering shall say "DANGER-HIGH VOLTAGE-THE SIDE UP".

Further red lettering shall be one inch (1") high stating "RHPS" and the heater model number. The model number, heater wattage @ operating voltage and company name shall also be stated on tag located on top side of heater near cold leads. Heater voltage shall be printed on a metallic tag attached to the cold lead.

