

Rail Heating Products & Services

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RWHN - SSP

Rail Web Heaters

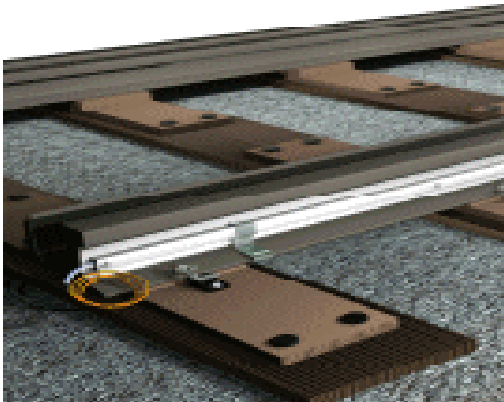
Application: Switch Rail Snow and Ice Melting

RWHN heaters are an integral part of RHPS's transportation snow and ice melting systems. Designed specifically for rail switch heating, RWHN heaters are designed for ease of installation and operation.

The RWHN heaters have a flat, flexible heating surface that conforms to the web of the rail, to provide maximum heat transfer from the heater to the rail. This allows RWHN heaters to operate at a lower watt density than traditional calrods thus increasing the heater's life span and lowering the operating costs.

Design. . .

RWHN's are manufactured to meet the specific user's needs based on the available power supply. A typical design will include a review of the rail and switch profiles to determine the power requirements for the specific application. The heaters are designed to operate at a nominal 1.2 watts per square centimeter of heater contact surface at the specified voltage. **Note:** RWHN heaters use electrical parallel path lead configuration. Typical voltages 110 to 480 Vac.



PRODUCT SPECIFICATIONS

Installation. . .

RWHN heaters are rugged, yet flexible enough to adapt to the requirements of rail switch installations. RWHN's are fastened to the rail with easy to install spring clips. The standard electrical connection are simple crimp type connectors, isolated with Teflon tape and sealed with shrink tube making heater-to-heater and heater-to-power connections fast, easy and watertight but any NEC approved connection device may be specified.

Construction. . .

The RWHN heater is manufactured to withstand the hostile atmosphere of railway switches. It is composed of a parallel path, heating element that is encapsulated between two layers of high temperature fiberglass reinforced silicone rubber. The encapsulated element is backed with a layer of high temperature silicone foam insulation, to ensure maximum heat transfer into the rail. These components are then housed in a durable stainless steel enclosure. These assemblies are available in 50mm wide (tall) by 250, 500 and 1000mm long models. The 150 & 300mm long lead wires are protected with stainless steel armorflex.

