

**Outdoor-rated ground-fault protection for heating cables**

The Raychem® H921 provides ground-fault protection for 120-V Raychem WinterGard® heating cables used for pipe freeze protection or roof and gutter de-icing.

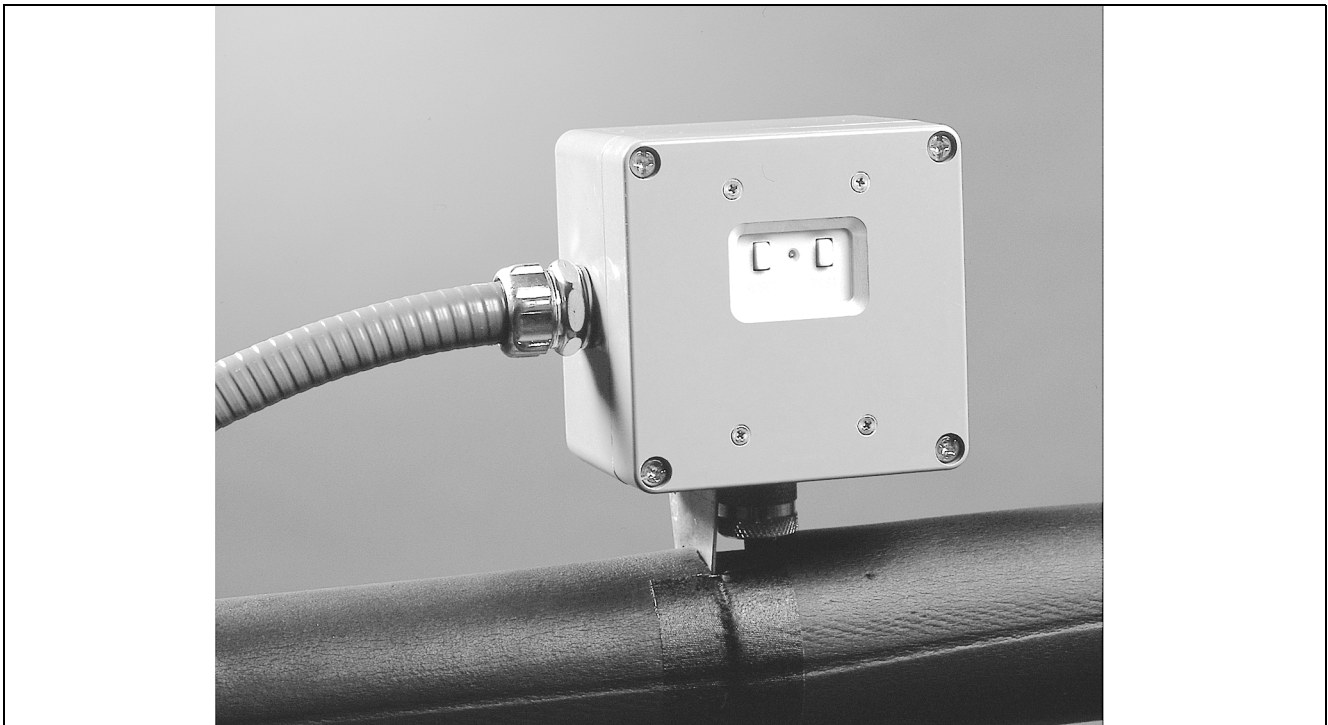
The H921 must be used with the H900 Power Connection Kit. Together they provide convenient hardwire connection and ground-fault protection as required by the national electrical codes. Rated 20 A, 120 V, the H921 ground-fault protected

junction box is a NEMA 3R (raintight) enclosure. Its features include test and reset buttons, automatic reset in the event of a power interruption, and open neutral protection. Its signal light indicates that the system is powered.

**De-ices roofs, gutters, and downspouts**  
Use with WinterGard Wet® H612 heating cable on roofs, gutters, and downspouts to prevent ice and snow buildup problems.

**Protects pipes from freezing**  
Use with 120-V WinterGard® and WinterGard Plus® heating cables to protect metal and plastic pipes in indoor or weather-proofed outdoor unheated areas.

Use with WinterGard Wet H612 heating cable to prevent freezing of outdoor pipes and faucets.



**General**

**Description**

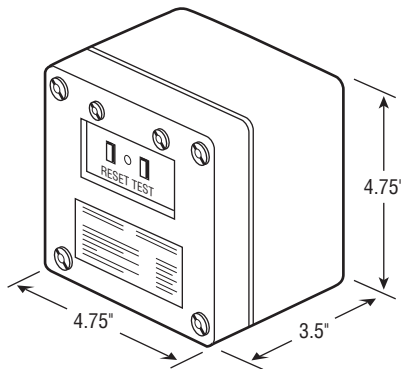
The H921 is a 120-V ground-fault equipment protection device. It contains an equipment leakage circuit interrupter (ELCI) that has a 27-mA trip level. The H921 is for use in conjunction with the H900 Power Connection Kit and the H311, H611, or H612 self-regulating cables.

The H921 is for use in ordinary areas and is rated NEMA 3R. The H921 can be used with one H900 power connection kit.

**Approvals**



**Enclosure Dimensions**



**Technical Specifications**

The 27-mA rated ELCI will trip whenever the fault current to ground is more than 27 mA. The device provides ground-fault protection of equipment only.

The 27-mA ELCI in the H921 kit will minimize the risk of fire from sustained electrical arcing if the heating cable is improperly installed or damaged during use. The fault currents produced by this arcing may be too small to be stopped by conventional circuit breakers. The ELCI in the H921 kit, however, will sense these fault currents and shut off the power.

**Note:** The H921 requires a properly installed electrical ground.

**WinterGard Heating Cable Specifications**

	WinterGard	WinterGard Plus	WinterGard Wet	
Catalog number	H311	H611	H612	H612
Application	Pipes	Pipes	Pipes	Downspout drains, roofs, and gutters
Service voltage	120	120	120	120
Maximum circuit length at 40°F start-up (ft)	250	200	200	200
Maximum circuit length at 0°F start-up (ft)	200	190	200	150
Circuit breaker rating (A)	20	20	20	20
Thermal output at 40°F (W/ft)	3	6	6	8
Weight per 100 ft (lb)	6	6	9	9
Minimum installation temperature (°F)	0	0	0	0
Maximum exposure temperature (°F)	150	150	150	150
Environment	Use in ordinary (nonhazardous) areas. Do not expose to chemicals.			

For complete design and installation information, consult the Application and Design Guide (H53585) or call Tyco Thermal Controls at (800) 545-6258.

**Worldwide Headquarters  
Tyco Thermal Controls**

7433 Harwin Drive  
Houston, TX 77036  
USA  
Tel: 800-545-6258  
Tel: 650-216-1526  
Fax: 800-527-5703  
Fax: 650-474-7711  
info@tycothermal.com  
[www.tycothermal.com](http://www.tycothermal.com)

**Canada  
Tyco Thermal Controls**

250 West St.  
Trenton, Ontario  
Canada K8V 5S2  
Tel: 800-545-6258  
Fax: 800-527-5703

**Latin America  
Tyco Thermal Controls**

7433 Harwin Drive  
Houston, TX 77036  
United States  
Tel: 713-868-4800  
Tel: 713-735-8645  
Fax: 713-868-2333

**Europe, Middle East, Africa (EMEA)  
Tyco Thermal Controls**

Romeinse Straat 14  
3001 Leuven  
België / Belgique  
Tel: +32 16 213 511  
Fax: +32 16 213 603

**Asia Pacific  
Tyco Thermal Controls**

20F, Innovation Building,  
1009 Yi Shan Rd,  
Shanghai 200233,  
P.R.China  
Tel: +86 21 2412 1688  
Fax: +86 21 5426 2937 / 5426 3167

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