

# RF Lamp Dimmer

Wireless Series
Local Lighting Controls
RF Dimmer Link-8.1
Tabletop

## **RF LAMP DIMMER** **(MODEL # HRT-3LD-XX)**

HomeWorks® RF lamp dimmers allow table and floor lamps to be included in the *HomeWorks* lighting control system. Each RF lamp dimmer controls one table or floor lamp with simple and intuitive buttons for on/off and raise/lower. Simple to install, RF lamp dimmers are plugged into any standard wall outlet. Built-in intelligence allows each RF lamp dimmer to be controlled from the *HomeWorks* keypad in the home, as well as from touchscreens, universal remotes, and home automation controls.

RF lamp dimmers incorporate advanced features such as fade-on/fade-off, long fade-to-off, and rapid full-on. In addition, the local control may be programmed similar to a keypad button press with single and double tap functions, turning multiple lights on or off. RF lamp dimmers may be used in any system design with RF capability.

### **FINISHES AND COLORS**

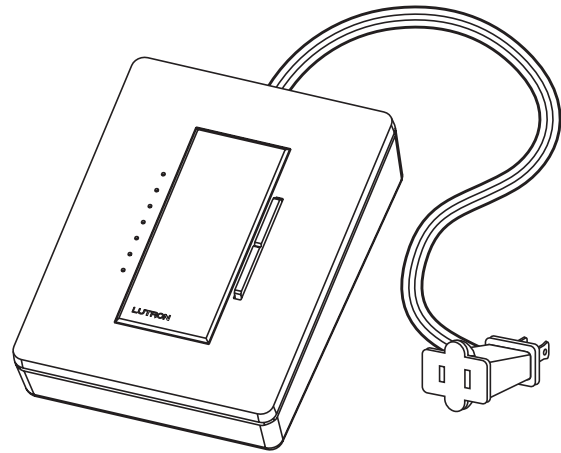
RF lamp dimmers are available in Snow (SW) and Midnight (MN).

### **DIMMING CONTROL LOAD RATINGS**

HRT-3LD dims a single incandescent or magnetic low-voltage circuit up to 300 W/VA.

### **COMMUNICATION TO PROCESSOR**

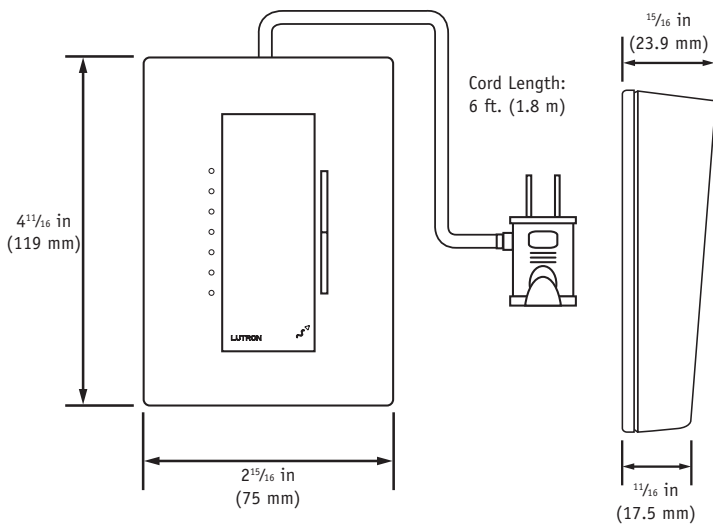
The RF lamp dimmers must be located within 30 feet (9 m) of an RF processor or a hybrid repeater. Each *HomeWorks* processor can control up to 64 RF local controls.



**RF Lamp Dimmer  
(HRT-3LD)**

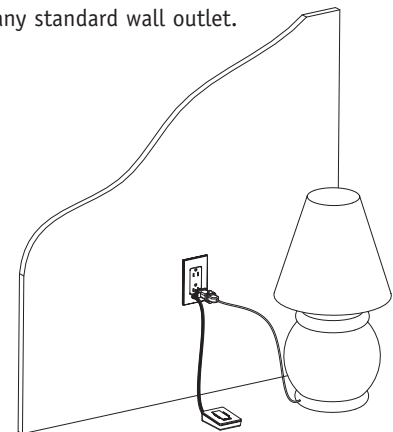
# RF Lamp Dimmer (cont.)

Model Number	HRT-3LD: Lamp dimming control.
Input Voltage	120 V $\sim$ 50/60 Hz
Regulatory Approvals	UL, CSA, NOM, FCC, IC
Load Types	Incandescent, magnetic low-voltage <sup>1,2</sup> , tungsten halogen.
Maximum Load	300 W/VA
Minimum Load	10 W/VA
Environment	Ambient operating temperature: 0 °C to 40 °C, 32 °F to 104 °F Ambient operating humidity: 0-90% humidity, non-condensing. Indoor use only.
Addressing	Via the HomeWorks® software, using unique device serial numbers. Units must be installed prior to addressing. Counts as 1 of the 64 dimmer addresses on the RF link.
Diagnostics	LEDs provide diagnostics for troubleshooting.
ESD Protection	Meets or exceeds the IEC 61000-4-2 standard.
Surge Protection	Meets or exceeds ANSI/IEEE standard c62.41.
Fail-Safe Operation	In the unlikely event that communication with the processor is interrupted, all Maestro® local controls will still operate, offering local control.
Dimensions	2 <sup>15</sup> / <sub>16</sub> in (75 mm) x 4 <sup>11</sup> / <sub>16</sub> in (119 mm) x 1 <sup>5</sup> / <sub>16</sub> in (24 mm) See Fig. 1 below.
Shipping Weight	0.75 lbs. (0.34 kg)



**Figure 1 – Dimensions**

Plug lamp cord into back of RF Lamp dimmer plug. Plug RF lamp dimmer plug into any standard wall outlet.



**Figure 2 – Installation**

- (1) Because low-voltage transformers vary widely in efficiency, the input VA of each transformer should be measured directly. If this is not possible, use the maximum lamp wattage figures, which have a built-in safety margin.
- (2) For low-voltage applications using the HRT-3LD use with core and coil (magnetic) low-voltage transformers only. Do not use any solid-state electronic low-voltage transformers. Operation of a low-voltage circuit with all lamps inoperative or removed may result in current flow in excess of normal levels. To avoid transformer overheating and premature transformer failure, Lutron strongly recommends the following:
  - a) Do not operate low-voltage circuits without operative lamps in place.
  - b) Replace burned-out lamps as soon as possible.
  - c) Use transformers that incorporate thermal protection or fuse transformer primary windings to prevent transformer failure due to overcurrent.