

HomeWorks Sunnata local controls function much like standard dimmers and switches, but can be controlled as part of a lighting control system. Local lighting controls are useful in locations where single circuits of lighting need to be dimmed or switched.

HomeWorks Sunnata dimmers and companion dimmers incorporate advanced features such as fade-on/fade-off, delayed long fade-to-off, and rapid full-on.

HomeWorks Sunnata local controls include a locator light to assist in locating the controls at night. HomeWorks Sunnata local controls install in single pole or multi-location applications (fan control is single pole only). Sunnata companion dimmers and companion switches must be used for multi-location control. HomeWorks Sunnata local controls include a Front Accessible Service Switch (FASS) for safe light bulb replacement.

Use Lutron Designer (Claro gloss or satin finish) wallplates or designer-style wallplates from other manufacturers. Wallplates are sold separately. Lutron Claro wallplates snap on with no visible means of attachment. Available colors are in the Colors and Finishes section on page 16 at the end of this document.



Dimmer

Switch





Companion Dimmer

Companion Switch



Fan Control



### 07.01.24

# HomeWorks RF Sunnata Local Controls

## **Design Features**

### Dimmer and Companion Dimmer

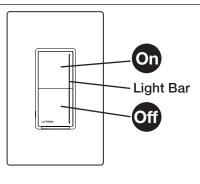
- Pressing the top of the button, lights fade ON.
- Pressing the bottom of the button, lights fade OFF.
- Anytime Double tap the top of the button, lights fade rapidly to full brightness.
- Pressing and holding the bottom of the button for more than 1 second - Delayed long fade to OFF (30 second delay).
- Light levels can be fine-tuned by touching your finger to the light bar and sliding your finger up or down until the desired light level is reached.
- Neutral is required. (Dimmer only)

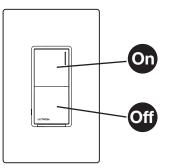
### Switch and Companion Switch

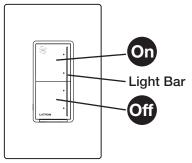
- Pressing the top of the button, lights or motors turn ON.
- Pressing the bottom of the button, lights or motors turn OFF.
- Neutral is required. (Switch only)
- Pressing and holding the bottom of the button for more than 1 second - Delayed Off (30 second delay).

### Fan Controls

- Pressing the ON button, the fan goes to the previous speed. Pressing the OFF button turns the fan off.
- Double-tapping anytime, the fan goes to high speed.
- Fan speed can be adjusted by touching the light bar for one of the four speeds.
- Neutral is required.
- AC fan only.
- Use to control one paddle-type ceiling fan.
- Not for use with DC motor fans or fans with remote controls.
- Not for use with bathroom or kitchen exhaust-type fans.
- Not for use with Wi-Fi only fans.
- Not for use to control lighting loads on a fan.









# HomeWorks RF Sunnata Local Controls

### Model Numbers

### Dimmer

LED/CFL/Incandescent/Halogen/MLV/ELV/Mark 10 Ballasts/Hi-lume 1% 2-wire Drivers (120 V~) HRST-PRO-N-XX 250 W (LED/CFL)\* or 500 W Incandescent/Halogen/ELV or 400 VA MLV Phase Selectable Neutral Dimmer

\* Go to www.lutron.com/ledtool to see all compatible LED/CFL lamps.

### Switch

Lighting and Motor Loads (120 V~) HRST-8ANS-XX 8 A Light, 1/4 HP 5.8 A Motor Neutral Wire Electronic Switch

### Fan Control

Paddle-type Ceiling Fan (120 V~)HRST-ANF-XX1.5 A max one (1) paddle-type AC ceiling fan only

### Companions (for multi-location installations)

HRST-RD-XX	Companion Dimmer (120 V~)
HRST-RS-XX	Companion Switch (120 V~)

Note: "XX" in the model number represents color/finish code. See Colors and Finishes at end of document.



# HomeWorks RF Sunnata Local Controls

## Specifications

	Dimmer: HRST-PRO-N Companion Dimmer: HRST-RD
	Companion Dimmer: HBST-BD
	Switch: HRST-8ANS
	Companion Switch: HRST-RS
	Fan Control: HRST-ANF
Power	120 V~ 50/60 Hz: -PRO-N, -8ANS, -RD, -RS, -ANF
	<i>Dimmer/Switch/Fan:</i> 0.5 W Test conditions: Load is off and locator light is enabled.
	<b>Companion Dimmer/Switch:</b> 0.2 W Test conditions: Load is off.
Regulatory	cULus, NOM, FCC, IC, IFT (-ANF, -PRO-N, and -8ANS)
Approvals	cULus, NOM, FCC, IC (-RD and -RS)
	Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C), 0% to 90% humidity, non-condensing. Indoor use only.
	Dimmers and switches communicate with the system through Clear Connect-Type X Radio Frequency (RF) and must be located within 75 ft (22.8 m) of a centrally located HomeWorks wireless processor/gateway. Each Sunnata dimmer should have at least two other non- battery powered Clear Connect-Type X devices within 25 ft (7.6 m). Clear Connect-Type X devices include, for example, the HomeWorks wireless processor/gateway, Sunnata dimmers, Sunnata switches, and Sunnata keypads. Companion dimmers/switches are not Clear Connect-Type X devices, and are not required to be within a specific range of a HomeWorks wireless processor/gateway. System devices operate on a frequency of 2.4 GHz.
	Tested to withstand electrostatic discharge without damage or memory loss, in accordance with IEC 61000-4-2.
	Tested to withstand surge voltages without damage or loss of operation, in accordance with IEEE C62.41-1991 Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits.
RTISS Equipped	Circuitry compensates in real time for incoming line-voltage variations (-PRO-N only).
	Power failure memory: Should power be interrupted, the control will return to its previous state when power is restored.
·	Requires a U.S. wallbox. 3½ in (89 mm) deep recommended, 2¼ in (57 mm) deep minimum. For best wireless performance, use a metal wallbox when installing the product in a concrete or stone wall. HRST-ANF requires 2.5 in (63.5 mm) minimum depth.
· ·	Use only companion dimmers (-RD) and companion switches (-RS) with dimmers/switches. Up to four companion dimmers (-RD) may be connected to the dimmer and four companion switches (-RS) may be connected to the switch. Total wire length may be up to 150 ft (45 m).
Warranty	www.lutron.com/TechnicalDocumentLibrary/Warranty.pdf



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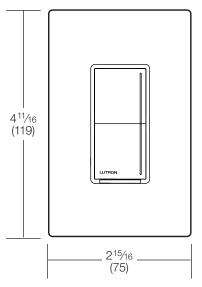
# HomeWorks RF Sunnata Local Controls

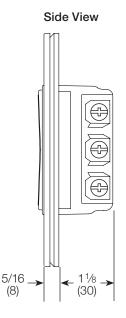
## Dimensions

All dimensions are shown as: in (mm)

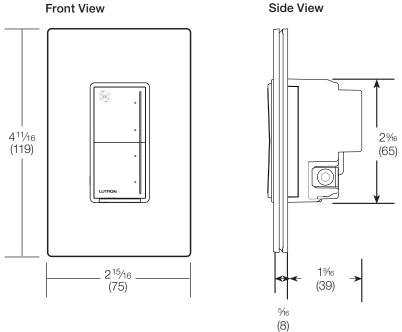
### Dimmer/Switch







Fan Control

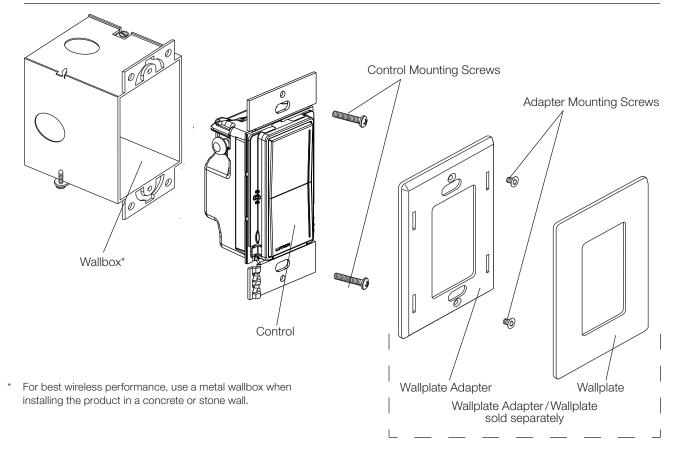


Note: HRST-ANF- requires a U.S. wallbox 2 ½ in (64 mm) deep minimum.



# HomeWorks RF Sunnata Local Controls

## Mounting and Parts Identification





# HomeWorks RF Sunnata Local Controls

## Load Type and Capacity

Load Type	Minimum Load	A Not Ganged	B End of Gang	C Middle of Gang	Neutral Connection	Required Phase Mode <sup>4</sup>
HRST-PRO-N <sup>2</sup>						
LED	1 bulb	250 W	200 W	150 W		Either
MLV Transformer with LEDs	Se		ote #559 (P/N 048 /.lutron.com	3559) at		Forward
ELV Transformer with LEDs			ating Required			Reverse
MLV Transformer with Halogen	10 W	400 VA (300 W)	No Derating Req	uired		Forward
ELV Transformer with Halogen	10 W	500 W	400 W	300 W		Reverse
Incandescent/Halogen	10 W	500 W	400 W	300 W	Required <sup>1</sup>	Either
Dimmable Fluorescent Ballast	1 ballast	3.3 A (400 VA)	No Derating Req	uired		Forward
Hi-lume 1% 2-wire (LTE) LED Driver	1 driver	3.3 A (400 W) 20 drivers max.	No Derating Req	uired		Forward
PHPM-PA/3F and GRX-TVI <sup>3</sup>	1 interface	3 interfaces	No Derating Required			Forward
CFL	1 bulb	250 W	200 W	150 W		Forward

#### <sup>1</sup> Neutral is required for all load types.

<sup>2</sup> Do not install dimmers to control receptacles or motor-operated appliances.

<sup>3</sup> Power Boosters/Load Interfaces: -HRST-PRO-N can be used to control power boosters/load interfaces. For a list of compatible power boosters/load interfaces see Compatible Power Boosters and Load Interfaces, page 10.

<sup>4</sup> Phase Mode default setting is Reverse-Phase.

**Note:** For dimming MLV fixtures, the maximum lamp wattage is typically 70%-85% of the transformer's VA rating. For actual transformer efficiency, contact the manufacturer. The total VA rating of the transformer(s) shall not exceed the VA rating of the dimmer.

#### Notes for dimming MLV fixtures:

- The total VA rating of the transformer(s) shall not exceed the VA rating of the dimmer. The VA rating of the transformer should be written on the nameplate label or determined by contacting the manufacturer. The maximum halogen lamp wattage is typically 70%–85% of the transformer's VA rating.
- MLV transformer loads powered by utility power and emergency backup generators should have a minimum one (1) second delay between switching power sources. Rapid non-synchronous switching can cause the transformer(s) to draw high currents which would cause breakers to trip or the dimmers controlling them to trip a protection.



### Load Type and Capacity (continued)

Load Type	Minimum Load	A Not Ganged	B End of Gang	C Middle of Gang	Neutral Connection
HRST-8ANS <sup>1,2</sup>					
LED Lighting	1 bulb	8 A	6 A	4.5 A	
Other Lighting Sources	10 W/VA	8 A	6 A	4.5 A	Required
Motor	0.08 A	1/4 HP 5.8 A	1/4 HP 5.8 A	1/6 HP 4.4 A	
HRST-ANF <sup>3</sup>					
Paddle-Type Ceiling Fan	0.08 A	1.5 A	1.5 A	1.5 A	Required

Note: Do not install switches to control receptacles or motor operated appliances with ratings above the motor ratings listed on this table. Power Boosters/Load Interfaces: -8ANS can be used to control power boosters/load interfaces. For a list of compatible power boosters/load interfaces, page 10.

<sup>2</sup> Switch Load Type:

-8ANS: Designed for use with permanently installed 120 V~ incandescent, MLV, ELV, tungsten halogen, fluorescent, LED, CFL, or motor loads.

<sup>3</sup> Do not use to control DC motor fans, fans with remote controls, Wi-Fi only fans, lighting loads on a fan, bathroom or kitchen exhaust-type fans.



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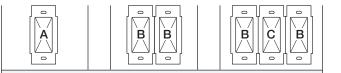
## HomeWorks RF Sunnata Local Controls

## **Mixing Lamp Types**

1

Mixing lamp types (using a combination of LED/CFL, Incandescent/Halogen bulbs) and ganging with other dimmers or electronic switches may reduce maximum wattage as shown in the chart below.

Example: If you have two dimmers ganged together and you have two 13 W LED bulbs installed (total LED Wattage = 26 W) on one dimmer, you may add up to 300 W of incandescent or halogen lighting to that one dimmer. Repeat the exercise for the other dimmer with which it is ganged.



		Total Ir						
Total LED/CFL Wattage		A Not Ganged		B End of Gang		C Middle of Gang	Neutral Connection	
HRST-PRO-N <sup>1</sup>	HRST-PRO-N <sup>1</sup>							
0 W	+	10 W-500 W	Or	10 W-400 W	Or	10 W-300 W	Required	
1 W-50 W	+	0 W-400 W	Or	0 W-300 W	Or	0 W-200 W		
51 W-100 W	+	0 W-300 W	Or	0 W-200 W	Or	0 W-100 W		
101 W-150 W	+	0 W-200 W	Or	0 W-100 W	Or	0 W		
151 W-200 W	+	0 W-100 W	Or	0 W 0	Or	0 W		
201 W-250 W	+	0 W	Or	0 W	Or	0 W 0		

Do not install dimmers to control receptacles or motor-operated appliances.



### **Compatible Power Boosters and Load Interfaces**

Some local controls can be used to control power boosters or load interfaces. Up to three power boosters or load interfaces can be used with one control. See table below for a list of controls and compatible power boosters and load interfaces.

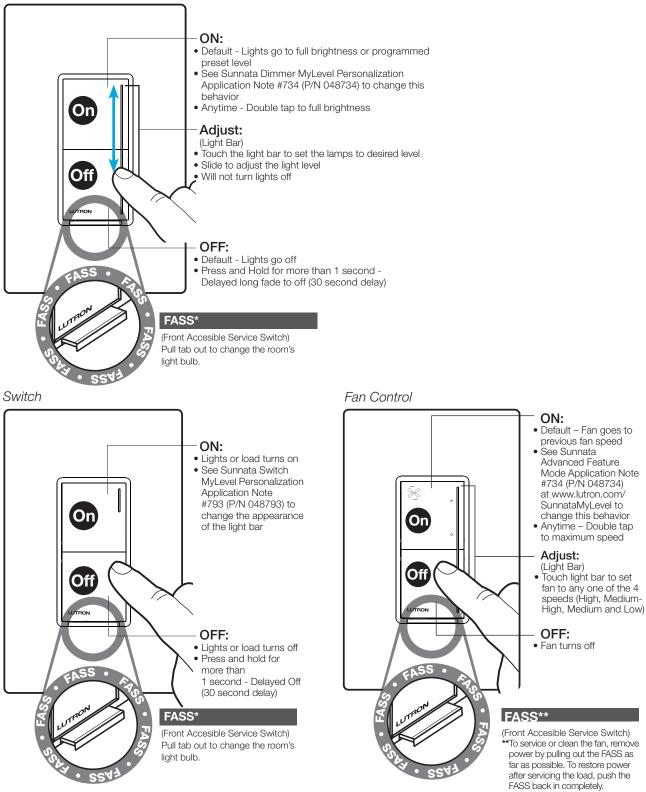
Control		3-wire Fluorescent Power Modules: PHPM-3F-120-WH; PHPM-3F-DV-WH	Module:	0-10 V== Interface and Switching Module: GRX-TVI
HRST-8ANS			$\checkmark$	
HRST-PRO-N	$\checkmark$	$\checkmark$		$\checkmark$

All power modules are 120 V $\sim$  only.



## Operation

#### Dimmer



\* FASS switch is **ONLY** for changing light bulbs in permanently wired fixtures. Changing wiring or installing dimmers/switches/companion devices requires turning off the breaker at the breaker panel.



## **MyLevel Personalization Advanced Features**

Sunnata RF dimmers and switches contain Advanced Features that allow users to customize the control to meet their specific needs. For a detailed description of the features and uses, please refer to the Sunnata Dimmer/Fan Control MyLevel Personalization Application Note #734 (P/N 048734) or Sunnata Switch MyLevel Personalization Application Note #793 (P/N 048793) at www.lutron.com. Before entering MyLevel, it is important to have a good understanding of the features. Please note that these local AFM features described below will be disabled when the device(s) are commissioned into a system. All AFM settings will then be based on the system programming. See Additional MyLevel Features Available in System Programming below.

### Dimmer

Available MyLevel Personalization Advanced Features			
Feature	Description		
High-end trim	Select the maximum available light limit.		
Low-end trim	Select the minimum available light limit.		
Preset light level	Change the behavior of the device when the ON button is pressed from the OFF state to ON.		
Light bar brightness	Select between high, medium, and low brightness of the control's light bar.		
Light level indicator/ locator light	Select between ON and OFF for the light bar when the lights are on (light level indicator) and when the lights are off (locator light). Default - ON/ON.		
Phase select	Select the Phase mode in which the dimmer operates. Forward or Reverse (Default).		
Restore factory default settings	Select to return dimmer to its original factory settings.		

Additional MyLevel Features Available in System Programming			
Feature	Description		
Fade On/Off rate	The rate at which the load turns ON and OFF from its previous state.		
Delayed Long Fade To Off	Allows for control to delay the load from starting the dimming sequence. This setting delays the time between when the OFF button is pressed and the load begins the Fade to Off process.		

### Switch

Available MyLevel Personalization Advanced Features			
Feature	Description		
Light bar brightness	Select between high, medium, and low brightness of the control's light bar.		
Light level indicator/ locator light	Select between ON and OFF for the light bar when the lights are on (light level indicator) and when the lights are off (locator light). Default - ON/ON.		

Additional MyLevel Features Available in System Programming			
Feature Description			
Delayed Off	Allows for control over how quickly/slowly the load turns off. This setting delays the time between when the OFF button is pressed (normal operation) and when the lights actually turn off.		



## MyLevel Personalization Advanced Features (continued)

### Fan Control

Available MyLevel Personalization Advanced Features			
Feature	Description		
Preset fan speed	Change the behavior of the device when the ON button is pressed from the OFF state to ON.		
Light bar brightness	Select between high, medium, and low brightness of the control's light bar.		
Fan speed indicator/ locator light	Select between ON and OFF for the light bar when the fan is on (fan speed indicator) and when the fan is off (locator light). Default - ON/ON.		



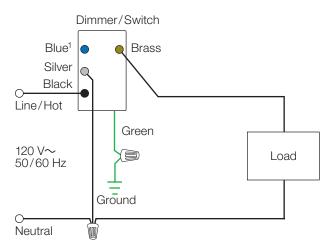
## HomeWorks RF Sunnata Local Controls

## Wiring Diagrams

### Wiring Diagram 1

Single-Location Installation with required Neutral<sup>1</sup>

### -PRO-N, -8ANS

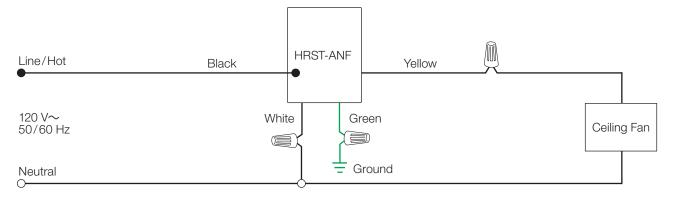


**Note:** Bolded lines in diagrams indicate leads on products. When using controls in single-location installations, tighten the blue terminal. Do not connect the blue terminal to any other wiring or to ground.

### Wiring Diagram 2

1

Single Pole Installation (load is controlled from 1 location): HRST-ANF



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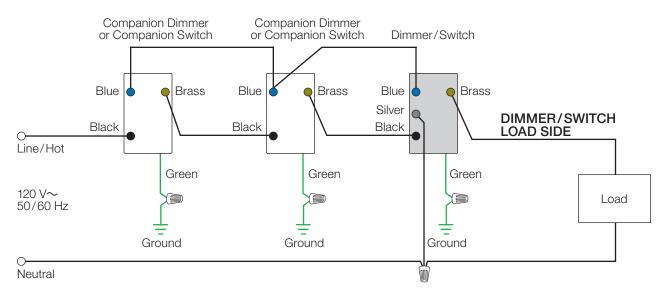
### Wiring Diagrams (continued)

### Wiring Diagram 3

Multi-Location Installation with required Neutral<sup>1</sup>

-PRO-N with -RD OR -8ANS with -RS

Note: Dimmer and switch must be on the load side



**Note:** Bolded lines in diagrams indicate leads on products. Up to four companion dimmers/companion switches may be connected to the dimmer/switch. Total blue terminal wire length may be up to 150 ft (45 m).



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Architectural

Cobblestone CS

White RW

# HomeWorks RF Sunnata Local Controls

## **Colors and Finishes**

<b>Gloss Finishes</b>		Satin Finishes		
White	Ivory	Brilliant White	Glacier White	Snow White
WH	IV	BW	GL	SW
Light Almond	Black	Lunar Gray	Mist	Pebble
LA	BL	LG	MI	PB
Due to printing lin and finishes shor guaranteed to per actual product c Color chip keych for more precise Gloss Finishes: E Satin Finishes: S	wn cannot be erfectly match olors. ains are available color matching: DG-CK-1	Slate SL Taupe TP	Midnight MN	Biscuit BI Clay CY

Espresso EP



Sand SD

Deep Sea DE TF

\* HomeWorks Sunnata dimmer, companion dimmer, switch, and companion switch are NOT field colorizable.

Truffle

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