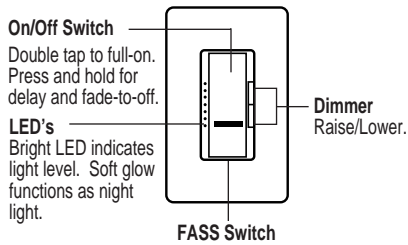
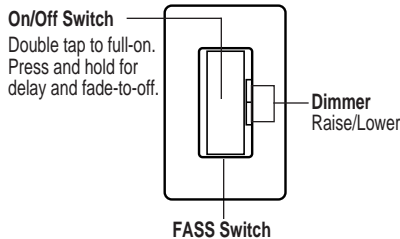


INDIVIDUAL COMPONENTS

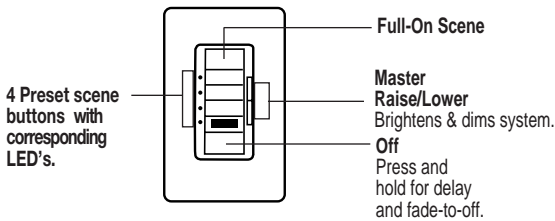
Preset Dimmer with IR Receiver



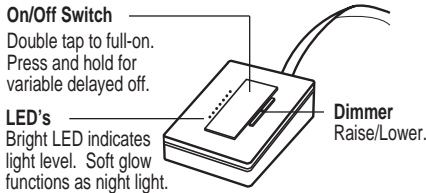
Accessory Dimmer



Wall-mounted Master Control



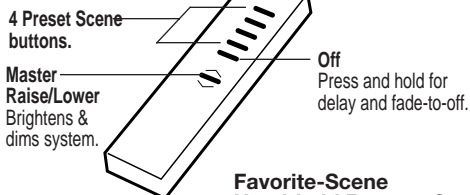
Lamp Dimmer



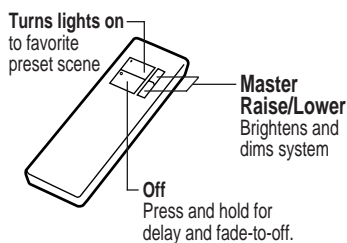
Hand-held Remote Controls

4-Scene Hand-held Remote Control

Royal Plum Color



Favorite-Scene Hand-held Remote Control



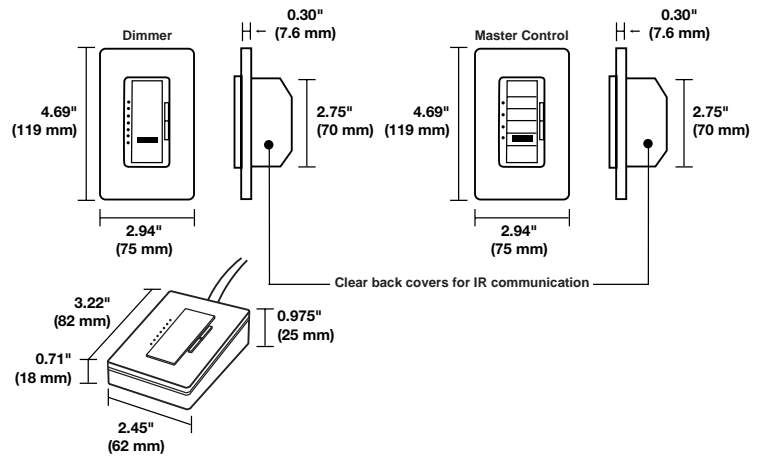
FEATURES

Where there's a space for a switch...there's a place for a Spacer System

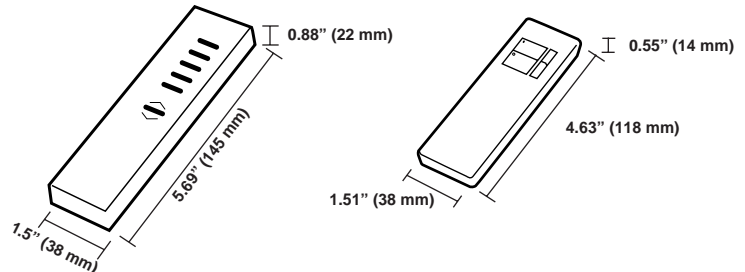
- Uses standard wiring for easy installation and retrofit
- Accessory dimmers wire like 3-way switches
- System functions with or without the optional wall-mounted master control
- Program and recall scenes at the touch of a button
- Delay and fade-to-off function (accessed by pressing and holding tapswitch on dimmers or off button on any of the Spacer System IR transmitters)
 - Delay increases in 10 second increments (from 0 to 60 seconds)
 - Each LED display = 10 seconds
 - 10 second fade begins after user-selected delay time has elapsed
- Light level set on the raise/lower tapswitch can be accessed by four quick taps on the tapswitch

DIMENSIONS

(Including Claro® wallplates — wallplates sold separately)



Hand-held Remote Controls (IR Transmitter)



Specification Series Standard Features

- All dimmers have specification grade components for surge protections and long product life.
- Power Failure Memory
- RFI suppression
- Lutron controls are rated at 120VAC, 60Hz. Fluorescent controls are rated at 120VAC, 60Hz and 277VAC, 60Hz as defined in product description



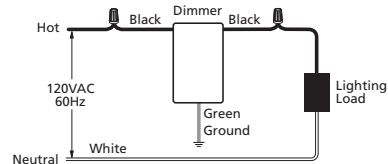
JOB NAME	AREA CONTROLLED
LOCATION	JOB NUMBER
TITLE	PAGE NO.
SUBMITTED BY	DATE

WIRING DIAGRAMS

Typical Spacer System Installations

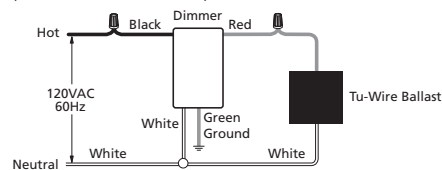
Wiring Diagrams for Single-Pole Installations Using a Single-Pole Dimmer

(use with SPS-600-, SPS-1000-, SPSLV-600-)



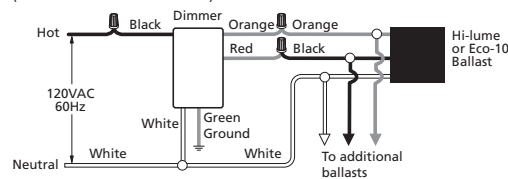
Tu-Wire®

(use with SFSFTU-5A-)



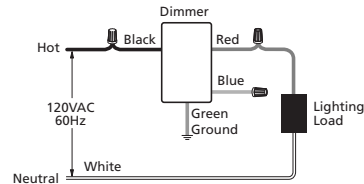
Hi-lume®, Eco-10®

(use with SPSF-10-277)



Wiring Diagrams for Single-Pole Installation Using a Multi-Location Dimmer

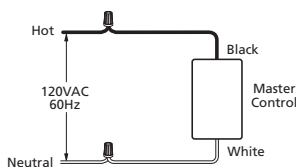
(use with SPS-600M-, SPS-1000M-, SPSLV-600M-)



Wiring Diagram for Wall-mounted Master Control

(use with SPS-5WC-)

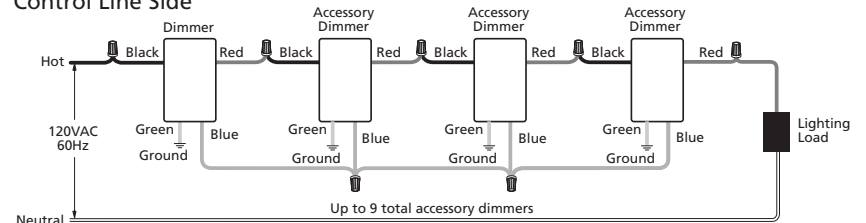
NOTE: Dimmers and Wall-mounted Master Control must be ganged in the same wallbox.



Wiring Diagrams for Multi-Location Dimmer Using Accessory Dimmers

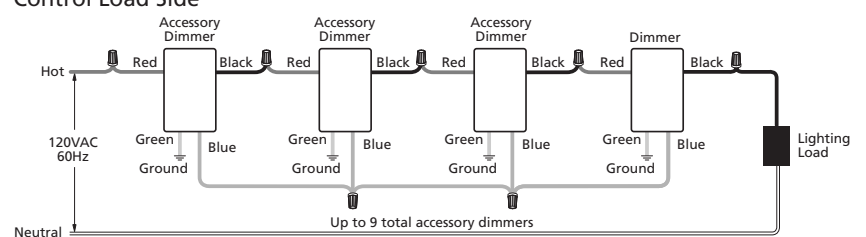
(use with SPS-600M-, SPS-AD-, SPS-1000M-, & SPS-AD-, SPLV-600M- & SPS-AD-)

Incandescent, Magnetic Low Voltage Control Line Side



OR

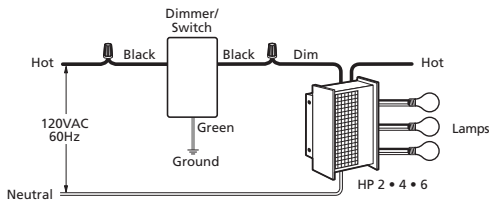
Incandescent, Magnetic Low Voltage Control Load Side



WIRING DIAGRAMS

Installation of Higher Wattage or Different Lamp Types

Wiring Diagrams for Single-Pole Installations Using Hi-Power®
(use with SPS-600-)



GANGING & DERATING^{1,2}

Maximum capacity

Control type			
	No side sections removed (full capacity)	One side section removed	Two side sections removed (middle unit)

Dimmers

Incandescent/Halogen	600W	500W	400W
	1000W	800W	650W
Magnetic Low Voltage	600VA	500VA	400VA
	(450W)	(375W)	(300W)
Fluorescent, Tu-Wire	5A	4A	3.3A
Fluorescent, Hi-lume/Eco-10	6A	4.2A	2.5A

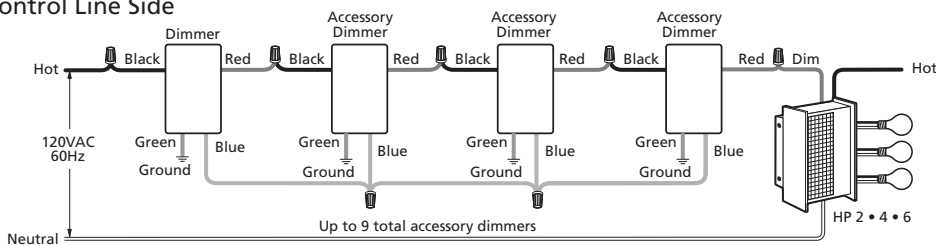
¹Spacer System Accessory Dimmers and Wall-mounted Master Controls do not require derating.

²Maximum gang of four dimmers when using Spacer System Wall-mounted Master Control.

Wiring Diagrams for Multi-Location Dimmer and Accessory Dimmers Using Hi-Power®

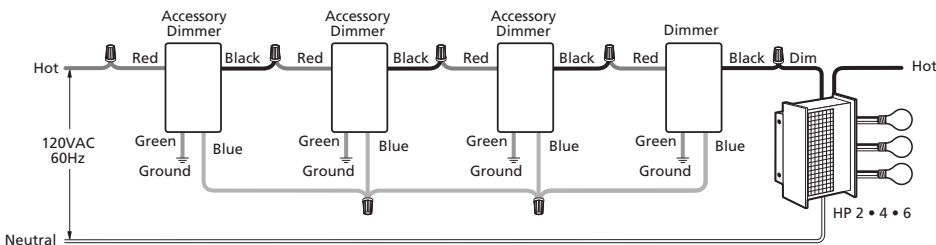
(use with SPS-600M- & SPS-AD)

Control Line Side




OR


Control Load Side




Dimmers with IR Receivers

(wallplates sold separately)


Description	Maximum Capacity	Model #	
 Incandescent/Halogen	single-pole dimmer	600W	SPS-600-
	single-pole dimmer	1000W	SPS-1000-
	multi-location dimmer	600W	SPS-600M-
	multi-location dimmer	1000W	SPS-1000M-

Description	Maximum Capacity	Model #	
 Magnetic Low Voltage	single-pole dimmer	600VA (450W)	SPLV-600-
	multi-location dimmer	600VA (450W)	SPLV-600M-


Description	Maximum Capacity	Model #	
 Fluorescent (use with Lutron Hi-lume® FDB and Eco-10™ phase control electronic dimming ballasts only)	single-pole dimmer	6A 277V	SPSF-10-277-
	(use with Lutron Tu-Wire® electronic dimming ballasts only)	single-pole dimmer	5A 120V

*See Lutron Ballast Selection Guide P/N 366-002 for lamp types and ballast model numbers.

Accessory Dimmers

	for use with SPS, SPLV	SPS-AD-
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Lamp Dimmers

	table/floor incandescent dimmer	300W	SPS-300LD-RP
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
Hi-POWER 2•4•6 WALLBOX DIMMING SYSTEMS

For control of loads greater than 1000 W/VA use HP 2•4•6. See literature P/N 362-604 for more information.

HP-2—2000 W/VA HP-4—4000 W/VA HP-6—6000 W/VA

Claro® Accessories



(Claro wallplates sold separately)

Product	Description	Model #	
	Switch	single-pole 3-way 4-way	CA-1PSH- CA-3PSH- CA-4PSH-
	Receptacle	15A/125V	CAR-15H-
	Telephone Jack	6 conductor	CA-PJH-
	Cable TV Jack	75 Ohm coaxial cable	CA-CJH-

Infrared Controls



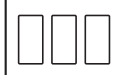
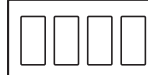

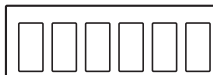
Product	Description	Model #
	5-scene wall-mounted master control	SPS-5WC-

Hand-held Remote Controls (Royal Plum only)

	4-scene hand-held remote control	SPS-4IT-RP
	Favorite-Scene hand-held remote control	SPS-FSIT-RP

CLARO WALLPLATES

(all Claro wallplates sold separately)

	Single-gang	CW-1 -
	Two-gang	CW-2 -
	Three-gang	CW-3 -
	Four-gang	CW-4 -
	Five-gang	CW-5 -
	Six-gang	CW-6 -

COLORS Add appropriate suffix to each model number to order. Example: SPS-600-WH

White (WH) Ivory (IV) Almond (AL) Gray (GR) Light Almond (LA) Brown (BR) Black (BL)

Lamp Dimmer, Favorite-Scene and 4-Scene Remote controls available in Royal Plum (RP) only.

PART 1 - GENERAL

1.01 Work Included

- A. Contractor shall furnish all devices, wallplate kits, labor, and other services necessary for the proper installation of the devices as indicated on the drawings and specified herein.
- B. Contractor shall install all devices, including dimmer, fan-speed control, switch, receptacle, telephone jack, cable TV jack, and wallplate kits from one manufacturer unless otherwise noted.

1.02 Submittals

- A. Submit manufacturer's standard catalog data. This data shall include all application, wiring, and installation information on devices and wallplate kits. Provide test data and/or samples as required to demonstrate conformance with PART 2 of this specification.

1.03 Quality Assurance

- A. Manufacturer shall have a minimum of 30 years continuous experience in manufacturing architectural wallbox dimming products.
- B. All dimmers shall be UL Listed and CSA approved specifically for the required loads (i.e., incandescent, electronic low-voltage transformer, magnetic low-voltage transformer, Lutron fluorescent dimming ballasts). Manufacturer shall provide file card upon request. Universal-type dimmers shall not be acceptable.
- C. Manufacturer shall maintain ISO 9001 certification, and provide a copy of the certificate upon request.

PART 2 - PRODUCTS

2.01 Acceptable Manufacturers

- A. Lutron Electronics Co., Inc.

2.02 Performance

- A. Devices shall be capable of operating at rated capacity without adversely affecting design lifetime.
- B. Devices shall operate in an ambient temperature range of 0°C (32°F) to 40°C (104°F).
- C. Dimmers shall incorporate power-failure memory. Should power be interrupted and subsequently returned, the lights will come back on to the levels set prior to the power interruption. Restoration to some other default level is not acceptable.
- D. Dimmers and accessory dimmers shall not be susceptible to damage or loss of memory due to static discharge.
- E. Dimmer shall provide a smooth and continuous Square Law Dimming curve.
- F. Dimmers and accessory dimmers shall meet the applicable requirements of UL20 and UL1472 referring to the inclusion of a visible, accessible air-gap off switch and the limited short circuit test.
- G. Dimmers shall meet ANSI/IEEE Std. C62.41-1980, tested to withstand voltage surges of up to 6000V and current surges of up to 200A without damage.
- H. All dimmers shall be designed to minimize effects of changing line voltage or frequency, and shall incorporate an RFI filter to minimize interference with electrical equipment.
- I. All dimmers shall have a high-end of no less than 95% of line voltage.

2.03 System Operation

- A. Dimmers shall operate individually by manual control, or as part of the system with IR control from hand-held remote control or wall-mounted master control.
- B. No wiring between components will be required to operate as a system.
- C. Preset scenes shall be accessible and programmable via infrared hand-held remote.
- D. Preset scenes shall be accessible and programmable from optional wall-mounted master control when wall-mounted master control is ganged contiguously in the same wallbox as dimmers.
- E. If not using a wall-mounted master control, individual dimmers shall work as a system and create scenes without being ganged together in the same wallbox, through the use of hand-held infrared remote control.
- F. System shall be capable of controlling table/floor lamps via infrared hand-held remote.

2.04 Dimmer Functions

- A. A single tap of the tap switch shall fade lights from off to a preset light level, or from a preset light level to off in 3 seconds. A rapid double tap of the tap switch shall fade lights to full-on in 1.5 seconds. Pressing and holding the tap switch shall activate a delay and fade-to-off function. Fade-to-off shall be delayed in 10 second increments up to 60 seconds, after which, lights shall fade to off over 10 seconds. Total time to off shall be indicated by LED display.
- B. A separate, visible lever shall activate a mechanical air-gap switch on wallbox dimmers to totally disconnect power from the load, which shall be accessible while the wallplate is secure to the dimmer.
- C. Accessory dimmers shall provide multi-location dimming. Up to 9 accessory dimmers may be used.
- D. Dimmers shall be capable of being operated and programmed by an infrared hand-held remote control.

2.05 Infrared Transmitters

- A. Infrared hand-held remote controls shall be capable of activating the dimmer from up to 30 feet line of sight.
- B. 4-Scene hand-held transmitter shall provide access and programming to four-user-selected preset scenes, and shall provide separate off and master raise/lower, with full-range continuously variable control of light intensity.
- C. A 1-scene hand-held transmitter shall provide access to one preset, user-selected scene, and shall provide separate off and master raise/lower, with full-range continuously variable control of light intensity.
- D. Wall-mounted master control shall incorporate infrared-beam technology to communicate to dimmers mounted in same wallbox, and provide access to four user-selected preset scenes, a separate full-on, off, and master raise/lower with full-range continuously variable control of light intensity.
- E. All infrared transmitters shall provide access to delay and fade-to-off function from the off button.

2.06 Wallplates

- A. Wallplates shall be manufactured from durable polycarbonate plastic with gloss finish, and shall secure to the devices without using exposed hardware or screws. Heat fins shall not be visible.
- B. Wallplates shall be supplied in colors, as noted.
- C. Multigang wallplates shall provide a continuous, seamless cover for up to six ganged dimmer, switch, fan-speed control and/or receptacle combinations with no exposed hardware or screws.
- D. Color variation of any control or wallplate shall not exceed $\Delta E=1$, CIE L^*a^*b color units.
- E. Visible parts shall exhibit ultraviolet stability when tested with multiple actinic light sources as defined in ASTM D4674-89.

PART 3 - EXECUTION

3.01 Installation

- A. Devices shall be installed utilizing manufacturer's recommended application, wiring, and installation instructions.

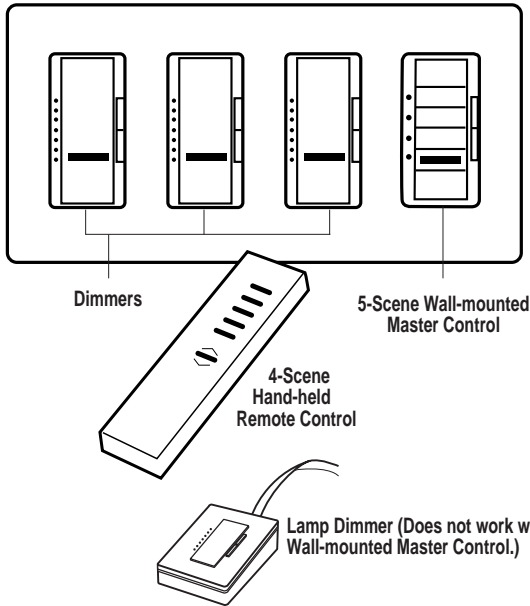
3.02 Warranty

- A. All devices shall be covered by a minimum one-year warranty from time of purchase.

Infrared (IR) Wireless Preset Lighting Scene Controls

SYSTEM OVERVIEW

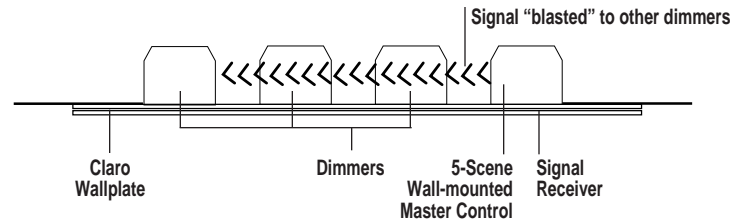
Spacer System using optional 5-scene wall-mounted master control and 4-scene hand-held remote control



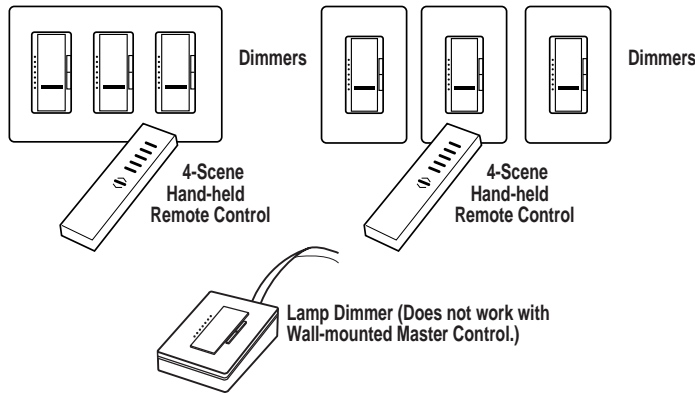
- Access to full-on scene, four preset scenes, off, and master raise/lower from wall-mounted master control.
- Access to four preset scenes from 4-Scene hand-held remote control.
- Maximum of four dimmers may be ganged with master control.
- Dimmers and master control must be in the same wallbox.
- Master control may be mounted to the left or right side of the dimmers.
- Use standard wiring and a Spacer Accessory Dimmer (SPS-AD-) for 3-way applications.

Wall-mounted Master Control Top View

Master Control “blasts” IR signal through clear backboxes to IR receivers in the dimmers. Therefore, dimmers and master control must be mounted contiguously in the same wallbox.

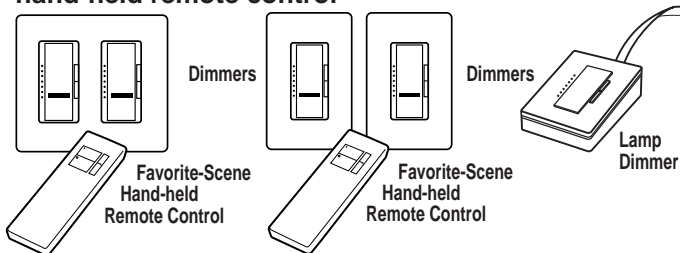


Spacer System dimmers using 4-scene hand-held remote control



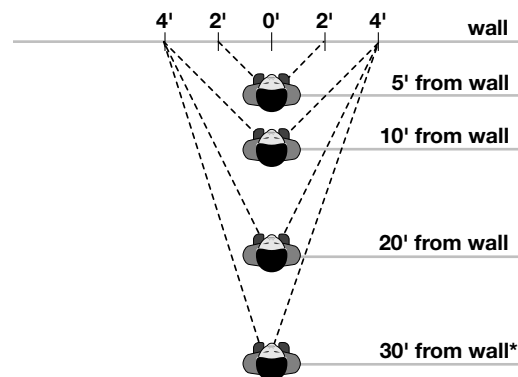
- Access four preset lighting scenes, off, and master raise/lower from hand-held remote control.
- Simply replace existing dimmers or switches ganged in same wallbox, or mounted independently on wall.
- Use standard wiring and a Spacer Accessory Dimmer (SPS-AD-) for 3-way applications.

Spacer System dimmers using Favorite-Scene hand-held remote control



- Access to one preset lighting scene, off, and master raise/lower from hand-held remote control.
- Simply replace existing dimmers or switches ganged in same wallbox, or mounted independently on wall.
- Use when only one preset scene is required.

Infrared Transmitter Photometrics



*Favorite Scene has an increased range of up to 45'.