

Integrated 5-Scene Preset Dimming System

INSTALLATION & OPERATING INSTRUCTIONS

Part No. 340542 Rev. B

85-1209

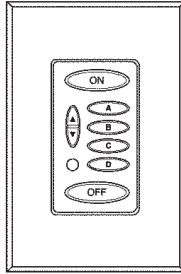
Important: Retain These Instructions For The End User.

DO NOT THROW AWAY!

For Use with Models: SCMC5, SC600, SCELV600, SCFB600, SCDH15, SCR, SCIR, SCMCK

DESCRIPTION

Pass & Seymour Scene Control products are a revolutionary system of advanced digital wallbox dimmers for economical and flexible multi-scene, multi-channel control. They provide flexible 5-scene preset dimming control of up to 30 devices as well as 12 adjustable fade rates up to one hour that are programmable by scene.



CAUTION

Be sure that power to the load being controlled has been disconnected by removing fuse or turning circuit breaker off. Installing these products with power on may expose you to dangerous voltage and/or damage the device.

READ BEFORE BEGINNING INSTALLATION

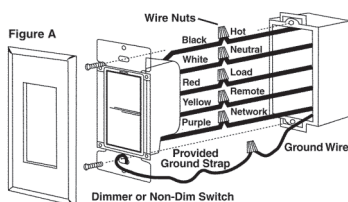
1. All devices require a neutral connection. Each circuit feeding dimmers and dimmed loads requires a separate neutral. Shared neutrals will result in undesirable flashing of controlled loads.
2. Use Electronic Low Voltage dimmers to control only low-voltage fixtures that have electronic, solid-state transformers or regular incandescent loads.
3. Use Fluorescent Ballast Dimmers to control Advance Mark X® Dimmable Electronic Ballast.
4. Dimmers may be fed individually or in groups, regardless of phase.
5. Masters draw approximately one watt and may be fed from any circuit. Multiple masters may be inter-connected. The total number of dimmers and masters are not to exceed 30. An unlimited number of channel remotes (SCR) may be used.
6. **Line voltage must not be supplied by a GFI breaker.**

INSTALLATION INSTRUCTIONS – DIMMERS

CAUTION: Be Sure that power is disconnected to avoid damage to unit and shock hazard to installer.

1. If you are replacing an existing device with a Dimmer or Remote:
 - A. Remove faceplate from existing device.
 - B. Unscrew and pull device out of wallbox.
 - C. Disconnect wires from device. Identify and mark the "hot", "load" and traveler wires connected to the device.
2. Be sure Dimmer is in "System Off" position by firmly pressing bottom of device until it snaps into place and the "System Off" label at the top of device is exposed.
3. Connect the Dimmer wires to the Wallbox wires as follows:
 - A. Black to Hot (120V AC Source)
 - B. White to Neutral*
 - C. Red to Load (Light Fixture)
 - D. Yellow to Remote (SCR). Cap yellow if SCR is not used.
 - E. Purple to Network Connection (Line Voltage Class 1)**
4. Be sure the Ground wire (bare stranded) is connected to earth ground.

Note: Miswiring or failure to connect ground may result in improper operation of the device.
5. Ensure all wire connectors are tight and completely cover copper wire, (except ground).
6. Install device into wallbox, making sure that all wires are neatly installed into wallbox. Using mounting screws provided, secure device into wallbox.
7. Install faceplate.

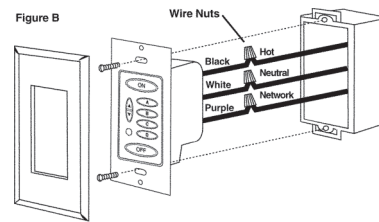


* The White wire must be connected to the neutral wire in the wallbox. Failure to connect the White wire to the neutral will result in improper operation.

** Link all devices using one line voltage wire connected between each Purple wire. Connected devices will operate as a system.

INSTALLATION INSTRUCTIONS – MASTERS (SCMC5)

1. **Caution:** Be sure that power is disconnected to avoid damage to unit and shock hazard to installer.
2. Connect Master wires to the Wallbox wires as follows (Figure B):
 - A. Black to Hot (120V AC Source)
 - B. White to Neutral*
 - C. Purple to Network Connection (Line Voltage Class 1)**
3. Ensure all wire connectors are tight and completely cover copper wire.
4. Install device into wallbox, making sure that all wires are neatly installed into wallbox. Using mounting screws provided, secure Master into wallbox.
5. Install faceplate.

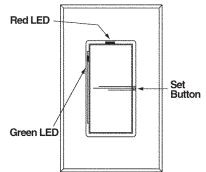


* The White wire must be connected to the neutral wire in the wallbox. Failure to connect the White wire to the neutral will result in improper operation.

** Link all devices using one line voltage wire connected between each Purple wire. Connected devices will operate as a system.

DIMMER OPERATING INSTRUCTIONS

1. To turn light on to preset level tap top of rocker. The dimmer will fade up at the 1.5 second rate.
2. A second tap of the rocker fades the dimmer to full brightness.
3. To adjust the light level, press and hold top or bottom of rocker until desired light level is reached, and then release. Ramping will be at the 3 second rate.
4. To turn lights off, tap the bottom of the rocker. The dimmer will fade at the 3 second fade rate.
5. To quickly return to the preset level when light is on, quickly tap OFF and then ON. The lights will then adjust to the preset level.
6. To bypass the fade rate and turn the lights to full ON or OFF, double tap the dimmer for ON or OFF.
7. If the master is in the OFF scene, the master ON button will illuminate when any dimmer is turned on.
8. To change the preset level of the current scene:
 - Press and hold the rocker until lights reach the desired level then release
 - Press the set button to save the preset in memory



LEDs on the Dimmers indicate status:

1. Red LED is on when Dimmer is off to locate Dimmer when room is dark.
2. As many as 3 green LEDs may be illuminated at any given time. The bright green LED indicates the current level of the dimmer. The medium green LED indicates the preset level of the current scene. The dim green LED indicates the preset level of the ON scene.

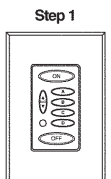
PROGRAMMING AND OPERATING THE SCENE MASTER

After you have completed installation of all of the devices and have energized the system, programming of each scene can be performed. Programming is as simple as 1, 2, 3!

1. Tap the preset button (ON, A – D) on the Master Controller that you wish to program.
2. Adjust each Dimmer to the desired intensity.
3. Press the Set button on each device (See step 8 in prior section) after all devices have been adjusted.

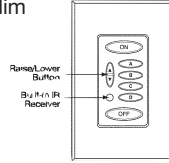
Repeat Steps 1-3 until all scenes have been programmed.

* **Note:** Dimmers cannot be programmed off for the "ON" preset.



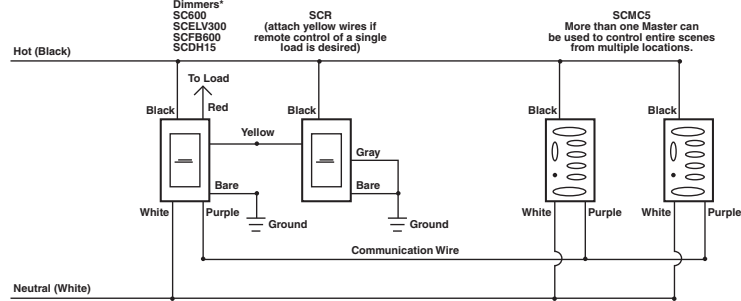
OPERATING INSTRUCTIONS

- Press or Tap the ON button to elegantly illuminate the entire area to the ON "preset". The ON scene will ramp up at the 1.5 second rate.
- Press and hold the RAISE/LOWER button to brighten/dim lighting level.
- Press or Tap the OFF button to fade lights to OFF.
- Tap a scene button to access one of the "preset" light levels.
- Two quick taps of any button (except RAISE or LOWER) will fade the lighting quickly.
- For information on the IR Receiver, see the Accessories section.



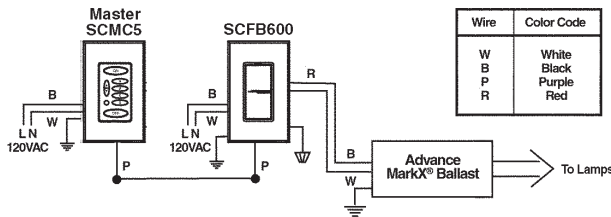
WIRING DIAGRAM

Scene Controllers



* Add additional dimmers as needed to control more loads. Use same wiring practices as dimmer shown above.

DIRECT DRIVE FLUORESCENT DIMMING (FB DIMMER)



TROUBLESHOOTING GUIDE

| Symptom | Possible Solution |
|--|--|
| Lamps do not start, flicker or go out at low-level | <ul style="list-style-type: none"> • Linear lamps are particularly sensitive to the correct grounding of the ballast to the fixture. Verify proper ground wire installation. • Control device minimum set point adjusted too low. Try raising slightly. • Lamps not seated properly in lamp sockets. Reseat lamps. • To ensure control is operating properly, connect an incandescent lamp load across the red dimming wire and white neutral wire at the wallbox. Control should dim the lamp properly. |
| One lamp end repeatedly blackens prematurely | <ul style="list-style-type: none"> • Possible loose, shorted or broken wires between lamp and ballast. Verify wiring is correct and not damaged. |

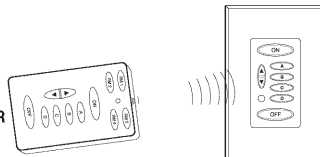
TOTAL BALLAST QUANTITY FOR SCFB600

| Lamp Watts | Type | Ballast Model | No. of Ballast |
|------------|------|---------------|----------------|
| 26 | T4 | REZ-IT32 | 19 |
| 32 | T4 | REZ-IT32 | 15 |
| 42 | T4 | REZ-IT42 | 12 |
| 26 | T4 | REZ-2Q26 | 10 |
| 40 | T5 | REZ-ITT540 | 15 |
| 40 | T5 | REZ-2TT540 | 7 |
| 25 | T8 | REZ-132 | 19 |
| 25 | T8 | REZ-2532 | 10 |
| 25 | T8 | REZ-3532 | 6 |
| 32 | T8 | REZ-132 | 15 |
| 32 | T8 | REZ-2532 | 8 |
| 32 | T8 | REZ-3532 | 5 |

ACCESSORIES & OPTIONS

Infrared Remote

The SCMC5 Master has an integrated infrared (IR) receiver that allows it to receive IR commands from a remote control unit (SCIR).

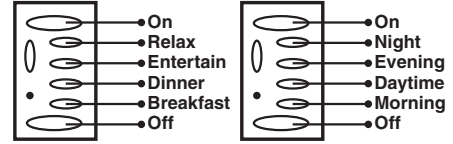


The SCIR infrared transmitter is capable of operating over an unobstructed range of approximately 25 feet. Within this range, scenes can be selected, raised and lowered, and lighting may be turned On and Off using the handheld remote transmitter. In addition, the SCIR is capable of controlling up to 4 different groups within a building. A Group here is defined as all dimmers and master control units that are connected by the same (purple) control wire.

NOTE: This system is based on line-of-sight operations. Therefore, the receiver must be able to "See" the transmitter. Any obstruction between the transmitter and receiver will adversely affect the performance of the unit.

Replacement Keypads

Replacement keypads are available for the SCMC5 with specific descriptions for lighting scenes. The following two keypads are prescribed with times of the day and events of the day, which help define your scenes more clearly. They can be ordered using catalog number: **SCMCK**. Contact your local Pass & Seymour dealer.

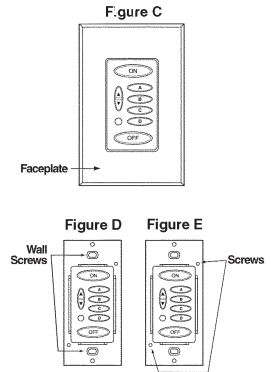


The lighting load fade rate and the master control button brightness are both adjustable. Contact our Technical Applications group for further instructions. (1-800-223-4185)

REPLACING THE KEYPAD MEMBRANE

The overlay on these models is easily replaced, even if the unit is currently installed.

1. Turn the power off at the circuit breaker.
2. Remove the faceplate (Figure C).
3. Remove the master keypad wall screws (Figure D).
4. Remove the retaining plate screws and plate (Figure E).
5. Remove the existing keypad membrane.
6. Install the new keypad membrane, being careful to line it up properly with the openings.
7. Reinstall the retaining plate screws (Figure E).
8. Reinstall the master keypad to wallbox (Figure D).
9. Reinstall the faceplate (Figure C).
10. Turn the power back on at the circuit breaker.



LIMITED THREE YEAR WARRANTY

Pass & Seymour will remedy any defect in workmanship or material in Pass & Seymour products which may develop under proper and normal use within three years from date of purchase by a consumer:

(1) by repair or replacement, or, at Pass & Seymour's option, (2) by return of an amount equal to consumer's purchase price. Such remedy is IN LIEU OF ANY AND ALL EXPRESSED OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Such remedy by Pass & Seymour does not include or cover cost of labor for removal or reinstallation of the product. ALL OTHER FURTHER ELEMENTS OF DAMAGE (INCIDENTAL OR CONSEQUENTIAL DAMAGES) FOR BREACH OF ANY AND ALL EXPRESSED OR IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED HEREBY. (Some states do not allow disclaimers or exclusion or limitation of incidental or consequential damages, so the above disclaimer and limitation or exclusion may not apply to you.) ANY IMPLIED WARRANTIES INCLUDING WHERE REQUIRED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED TO THE THREE YEARS PERIOD SET FORTH ABOVE. (Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.)

To insure safety, all repairs to Pass & Seymour products must be made by Pass & Seymour, or under its specific direction. Procedure to obtain performance of any warranty obligation is as follows: (1) Contact Pass & Seymour, Syracuse, New York 13221, for instructions concerning return or repair; (2) return the product to Pass & Seymour, postage paid, with your name and address and a written description of the installation or use of the Pass & Seymour product, and the observed defects or failure to operate, or other claimed basis for dissatisfaction.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

This product may be covered by one or more of the following U.S. Patents: #4,413,211; 4,430,576; 4,465,956; 4,733,138; 4,792,731; 4,880,950; 4,988,840; 4,992,709; 5,128,654; 5,153,816; 5,189,259; 5,194,858; 5,371,439; 5,371,444; 5,636,111; 5,642,104; 5,646,490; 5,920,156; Des. 307,578; Des. 333,124; License 4,482,844 and corresponding foreign patents. Other Utility, Design and Foreign Patents Pending.

We reserve the right to change details of design, materials and finish, in any way that will not alter installed appearance or reduce function performance.