SR - 528

ARCHITECTURAL ZONE CONTROLLER

OWNERS MANUAL

Revision 0.8

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www.lightronics.com

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PRODUCT DESCRIPTION

The SR-528 is a dual purpose unit. It's first function is to provide remote control to DMX-512 lighting systems. The unit can store up to 16 operator created scenes and activate them with the push of a button. The SR-528 will operate in either an "exclusive" mode (one scene active at a time) or in a "pile-on" mode which enables multiple scenes to be added together. The unit is capable of communication with other types of Lightronics smart remotes and simple remote switches. These remotes connect to the SR-528 via low voltage wiring and can command the SR-528 to turn scenes on and off.

The other purpose for the SR-528 is to provide a back-up solution to DMX console failures. In this role, the unit is installed between a DMX console and a dimmer (or multiple dimmer chain). In the event of a console failure, the SR-528 can activate prestored scenes. This unit can also be used for lighting system operation without the use of a trained operator at the main lighting console. The SR-528 retains stored scenes when powered off. It can be used continuously without a control console. The console is needed only to record scenes.

INSTALLATION

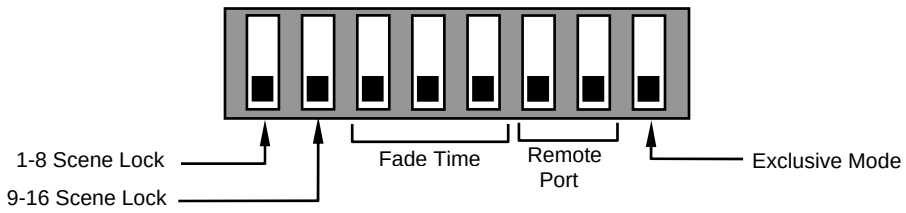
The dimmer system and the lighting console should be turned off before installating the SR-528.

1. Connect the console output DMX control signal to the DMX input connector of the SR-528.
2. Connect the DMX output of the SR-528 to the dimmer chain.
3. Connect the external 120VAC external power adapter to the SR-528. The red POWER indicator on the SR-528 will illuminate indicating that power is applied.
4. Turn on the lighting console and dimmer system. The green DMX VALID indicator on the SR-528 will light showing that a valid DMX signal is present.
5. Under normal operating conditions, a DMX signal will pass through the SR-528 and on to the dimmers. Console dimmer control proceeds as if the SR-528 were not present.

CONFIGURATION AND SETUP

The SR-528 has a DIP switch block on its left side which is used to control the operational setup. A brief description of DIP switch control is given in the table below. More detailed information about these switches is provided further on in this manual.

SWITCH NAME	FUNCTION PERFORMED
Scene 1-8 lock	Prevents recording to scenes 1 – 8
Scene 9-16 lock	Prevents recording to scenes 9 - 16
Fade Time	Controls time for scenes stored in the SR-528 to fade in and out.
Remote Port	4 different setting combinations which control how the SR-528 responds to simple switch remotes.
Exclusive Scene	Controls whether or not the SR-528 will allow multiple scenes to be on at the same time.



STORING SCENES

The button SCENES 9-16 controls which set of scenes (1-8 or 9-16) will be active for both recording and playback. When its indicator is on – scenes 9 through 16 are active.

Check that the SCENE LOCK DIP SWITCH for the applicable scene is off.

1. Create a scene using the control console faders to set dimmer channels to desired levels.
2. Push and hold SCENE RECORD on the SR-528 until its indicator begins flashing (aprox 2 seconds).
3. Push the button for the scene you want to record to. The SCENE RECORD indicator will stop flashing which shows that the scene assignment is completed.
4. Repeat steps 1 through 3 to record other scenes.

SCENE PLAYBACK

Playback of scenes stored in the SR-528 will occur regardless of control console operation or status. This means that scenes activated from the unit will add to or “pile on” to the channel data coming from a DMX console.

1. Set the SCENES 9-16 button on/off as needed.
2. Push the button associated with the desired scene – the scene will fade in according to the FADE TIME DIP switch settings.
3. The scene activation buttons are toggles. To turn off an active scene – push its associated button.
4. Scene activation can be further controlled by the EXCLUSIVE SCENE DIP switch. If this switch is OFF then multiple scenes may be active. When exclusive mode is ON – switching between scenes will occur.
5. The “ALL OFF” button blacks out or turns off all active scenes. Its indicator is on when blackout is active.
6. The fade in and fade out time for scene activation is controlled by three DIP switches on the side of the unit. The fade time range is from .5 seconds to 10 seconds. A table on the side of the unit shows exact switch settings.

CONSOLE SIGNAL LOSS

In the event that a DMX signal is not present at the SR-528, the unit can be used to send any of its stored scenes to a dimmer chain. The green "DMX VALID" indicator will NOT be lighted if a DMX signal is not recognized. The red "POWER" LED indicator on the SR-528 will flash continuously in the absence of a DMX input signal.

Since the SR-528 retains stored scenes when powered off, the SR-528 can be used continuously without a control console. The console is needed only to record scenes.

USING THE SR-528 WITH ADD-ON REMOTES

SMART REMOTES

There are several smart remotes which will operate with the SR-528. Currently the AC-1009, AC-2016, and AI-1001 are supported by the SR-528. The AF-2004 is supported for certain applications. All smart remotes connect in the same manner and are used to activate scenes stored within the SR-528. Multiple remotes may be daisy chained together. Generally they will all act as if they were the same remote (same scenes activated from multiple locations). The AC-1009 smart remotes can be set such that a pair of them can be used to activate 8 scenes from one and another 8 scenes from the second one.

Smart remotes connect to the SR-528 via a 4 wire shielded low voltage data cable. The cable is two twisted pairs with a shield. These wires are connected to specific pins on the DB9 connector located at the back edge of the SR-528. See the diagrams REMOTE CONNECTIONS and SMART REMOTE WIRING for detailed wiring data.

SIMPLE SWITCH REMOTES

These remotes enable basic 1 scene or 2 scene control schemes. They are typically mounted in standard wall boxes. Multiple switches may be used if properly parallel wired.

There are 2 basic configurations for these switches:
Single pole, double throw, center off toggle switch. Toggle up to activate a scene, toggle down to turn it off.
A single or pair of single pole push button switches. The SR-528 can be set to use them in several ways.

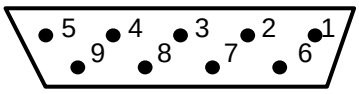
Simple switch remotes connect to the SR-528 as momentary switch closures. These wires are connected to 3 specific pins on the DB9 connector located at the rear edge of the SR-528. One of them is a common. The other 2 are the switch 1 and switch 2 inputs.

SR-528 REMOTE CONNECTIONS

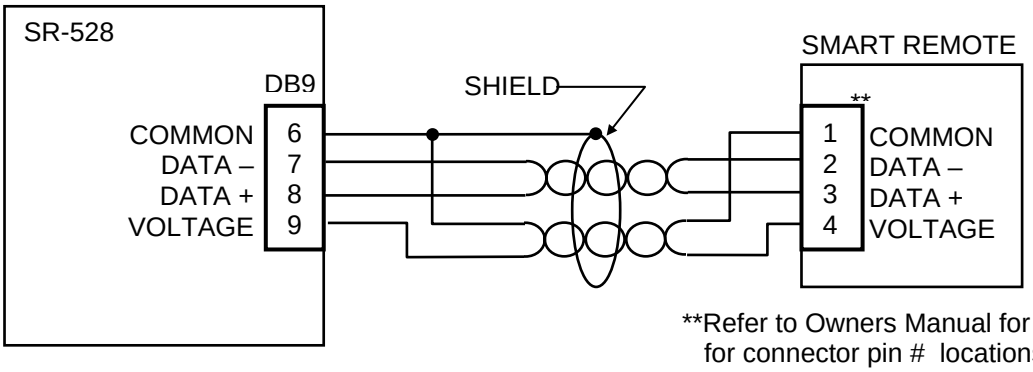
The table below provides the wiring data for the DB9 connector on the rear edge (centered) on the SR-528.

PIN #	FUNCTION
1	Simple Remote Switch Common
2	Simple Remote Switch #1
3	Simple Remote Switch #2
4	LED out #1
5	LED out #2
6	Smart Remote Common
7	Smart Remote DATA –
8	Smart Remote DATA +
9	Smart Remote Voltage +

FEMALE
DB9 Connector Pin Locations

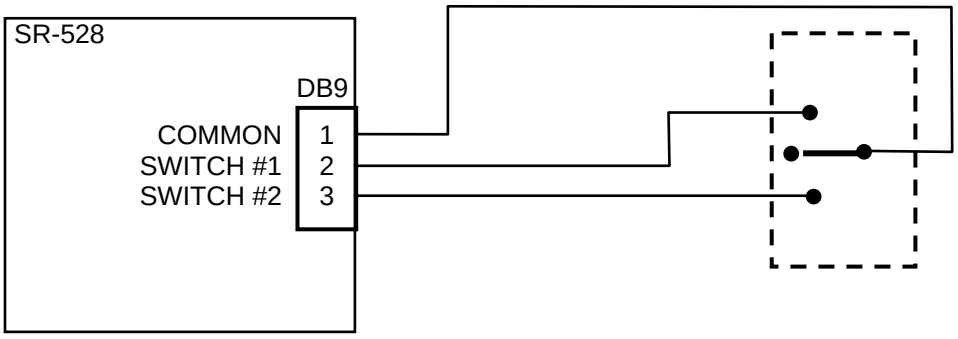


SMART REMOTE WIRING

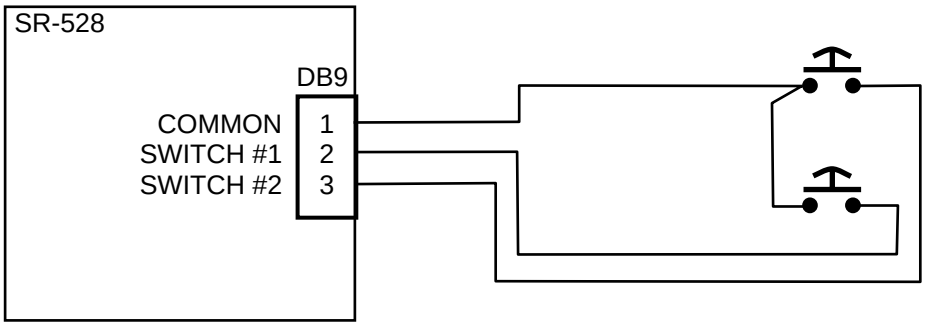


**Refer to Owners Manual for remote unit for connector pin # locations.

SIMPLE REMOTE SWITCH WIRING - TYPICAL SCHEME USING ONE SWITCH



SIMPLE REMOTE SWITCH WIRING - TYPICAL SCHEME USING TWO PUSHBUTTON SWITCHES



SR-528 RESPONSES TO SIMPLE REMOTE SWITCHES

You can set the SR-528 to respond to simple remote switch closures in one of 4 ways. This is done with the 2 DIP switches on the side of the unit labeled REMOTE MODE. A table on the side of the unit gives exact switch settings.

MODE 1: This is for on/off control using scene number 1. Switch #1 input turns on scene 1. Switch #2 input turns it back off.

MODE 2: Use this to create a 2 scene control setup where either scene will toggle on and off. Switch #1 input toggles scene 1 on/off. Switch #2 input toggles scene 2 on/off.

MODE 3: In this mode the switch #1 input sequences through all scenes (1-8 or 9-16). Switch #2 input turns all scenes off (blackout condition).

MODE 4: In this mode switch #1 input recalls the last scene active before a blackout. The switch #2 input turns that scene back off.

MAINTENANCE AND REPAIR

TROUBLESHOOTING

- A valid DMX console signal must be present to record a scene
- If a scene does not activate correctly– it may have been overwritten (re-recorded) without your knowledge
- If you cannot record scenes – check that the applicable Scene Lockout switch is not on.
- Check that the DMX cables and/or remote wiring are not defective. A MOST COMMON PROBLEM SOURCE
- To simplify troubleshooting - set the unit to known set of conditions.
- Make sure that the dimmer address switches are set to the desired channels.
- Check that the console softpatch (if applicable) is in fact set correctly.

OWNER MAINTENANCE

The best way to prolong the life of your SR-528 is to keep it dry, cool, clean and covered when not in use.

The unit exterior may be cleaned using a soft cloth dampened with a mild detergent/water mixture or a mild spray-on type cleaner. DO NOT SPRAY ANY LIQUID directly on the unit. DO NOT IMMERSE the unit in any liquid or allow liquid to get into the controls. DO NOT USE any solvent based or abrasive cleaners on the unit.

There are no user serviceable parts in the unit. Service by other than Lightronics authorized agents will void your warranty.

OPERATING AND MAINTENANCE ASSISTANCE

Dealer and Lightronics Factory personnel can help you with operation or maintenance problems. Please read the applicable parts of this manual before calling for assistance.

If service is required - contact the dealer from whom you purchased the unit or contact Lightronics, Service Dept., 509 Central Drive, Virginia Beach, VA 23454 TEL: (757) 486-3588.

WARRANTY

All Lightronics products are warranted for a period of TWO/FIVE YEARS from the date of purchase against defects in materials and workmanship.

This warranty is subject to the following restrictions and conditions:

A) If service is required, you may be asked to provide proof of purchase from an authorized Lightronics dealer.

B) The FIVE YEAR WARRANTY is only valid if the warranty card is returned to Lightronics accompanied with a copy of the original receipt of purchase within 30 DAYS of the purchase date, if not then the TWO YEAR WARRANTY applies. Warranty is valid only for the original purchaser of the unit.

C) This warranty does not apply to damage resulting from abuse, misuse, accidents, shipping, and repairs or modifications by anyone other than an authorized Lightronics service representative.

D) This warranty is void if the serial number is removed, altered or defaced.

E) This warranty does not cover loss or damage, direct or indirect arising from the use or inability to use this product.

F) Lightronics reserves the right to make any changes, modifications, or updates as deemed appropriate by Lightronics to products returned for service. Such changes may be made without prior notification to the user and without incurring any responsibility or liability for modifications or changes to equipment previously supplied. Lightronics is not responsible for supplying new equipment in accordance with any earlier specifications.

G) This warranty is the only warranty either expressed, implied, or statutory, upon which the equipment is purchased. No representatives, dealers or any of their agents are authorized to make any warranties, guarantees, or representations other than expressly stated herein.

H) This warranty does not cover the cost of shipping products to or from Lightronics for service.

I) Lightronics Inc. reserves the right to make changes as deemed necessary to this warranty without prior notification.