ENFORCER®

Miniature 1- and 2-Channel 433.92MHz RF Receivers

Installation Manual

3 YEAR WARRANTY Limited



SK-910RG1-4 shown

Model	Channels	Outputs	Operating voltage	Certifications
SK-910RG1-4	1	1x Form C	12/24 VAC/VDC*	FCC, CE, IC, RoHS
SK-910RG1-L4		1x Transistor ground	3~13.8 VDC	
SK-910RG2-4	2	1x Form C, 1x transistor ground	12/24 VAC/VDC*	
SK-910RG2-L4		2x Transistor ground	3~13.8 VDC	

The ENFORCER Miniature 1- and 2-Channel 433.92MHz RF Receivers provide all the important features you need in a miniature housing, small enough to fit inside a standard conduit box. They include 4 programmable output modes, a Form C relay and/or transistor ground outputs, and flexible 12/24 VAC/VDC (selectable*) operating voltage, including some very low voltage models.

- Compact housing fits in a standard conduit box
- Mounting tabs scored for easy removal
- Flexible 12/24 VAC/VDC (selectable*) operating voltage or low-voltage (3~13.8 VDC) models
- Learn up to 8 transmitter button codes per channel
- 4 Independently switchable output modes, programmable via jumpers – 1 second (default), 10 seconds, 30 seconds, or toggle
- Either 7A Form C relay (NO/NC/COM) or Transistor ground relay (3A@12VDC) or both
- Range up to 330ft (100m)†
- Compatible with all ENFORCER transmitters of the same frequency

*24VAC/VDC is selectable by cutting a wire jumper.

†Operating range varies greatly depending on the installation and operating environment.

SECO-LARM®

Parts List

1x **Receiver** 3x* **Short jumpers (spares)** 1x* **Long jumper (spare)** 1x **Manual**

*SK-910RG2-4 and SK-910RG2-L4 include 6 spare short jumpers and 2 spare long jumpers.

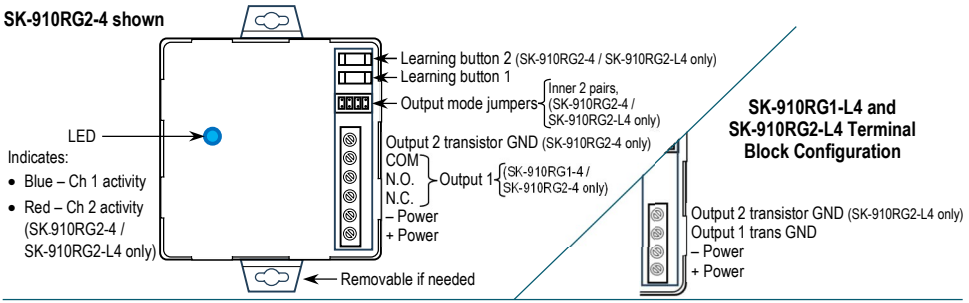
Specifications

Model			SK-910RG1-4	SK-910RG2-4	SK-910RG1-L4	SK-910RG2-L4
Operating frequency			433.92MHz			
Certifications			FCC, CE, IC, RoHS			
Memory capacity			Up to 8 button codes per channel			
Operating voltage			12/24 VAC/VDC (selectable*)		3~13.8 VDC	
Current draw (max.)	Standby		10mA@12VDC		7mA@12VDC	
	Active		60mA@12VDC per channel		8mA@12VDC per channel	
Channels			1	2	1	2
Outputs	Number		1	2	1	2
	Type	Ch1	Form C		Transistor GND	
		Ch2	n/a	Transistor GND	n/a	Transistor GND
	Rating	Ch1	20A@14VDC, 7A@120VAC		3A	
		Ch2	n/a	3A	n/a	3A
	Modes		1 second (default), 10 seconds, 30 seconds, or toggle			
Connectors			Screw terminal block			
Connections			Exposed screw terminals			
LED Indicator			Blue, channel activity	Dual color Blue, Ch 1 / Red, Ch 2	Blue, channel activity	Dual color Blue, Ch 1 / Red, Ch 2
Range†			Up to 330ft (100m)			
Operating humidity			5~95% non-condensing			
Operating temperature			−40°~167° F (−40°~75° C)			
Dimensions			$1^{11}/_{16}$"x$^{7}/_{8}$"x$1^{11}/_{16}$" (43x23x43 mm)			
Weight			1-oz (30g)	1.1-oz (31g)	0.75-oz (21g)	0.8-oz (22g)

*24VAC/VDC is selectable by cutting a wire jumper. †Operating range varies greatly depending on the installation and operating environment.

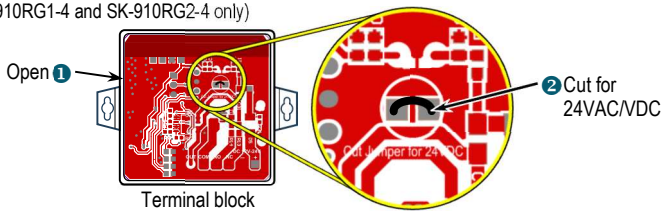
Overview

SK-910RG2-4 shown



24 VAC/VDC Jumper Wire (SK-910RG1-4 and SK-910RG2-4 only)

1. Open the housing from the bottom using a flat tool inserted in a gap along any side.
2. Cut the jumper wire loop as shown on the right.



Installation Notes

- Mount out of sight in a location not exposed to weather or moisture, not surrounded by metal, and far from sources of interference such as strong magnetic fields or radio-emitting sources. Test before mounting.
- For 24VAC/VDC, cut the jumper wire ***before*** connecting the power to the receiver (see *Overview, 24VAC/VDC Jumper*, pg. 2).

LED Indicator

There is a single LED indicator. See below for a description.

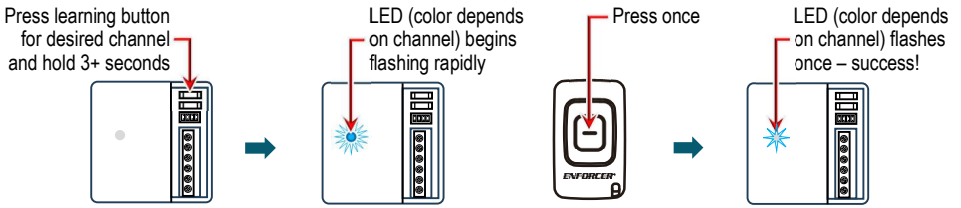
LED	State	Indication
Blue or red	Any	Blue indicates channel 1 / red indicates channel 2
	Single flash	Transmitter signal received
	Rapid flashing	In transmitter *code learning* or *clearing all codes* mode
	2 slow flashes	All transmitter codes successfully cleared for the selected channel
	0~8 slow flashes	Indicates number of codes already learned for the selected channel

Programming

Transmitter button codes are managed using the two learning buttons, button 1 for channel output 1 and button 2 for channel output 2 (see *Overview*, pg. 2). The LED will turn blue for channel 1 and red for channel 2 when learning, clearing, or displaying transmitter button codes.

Learning a New Transmitter Button Code

Each channel can learn up to 8 different button codes on a first-in, first-out basis.

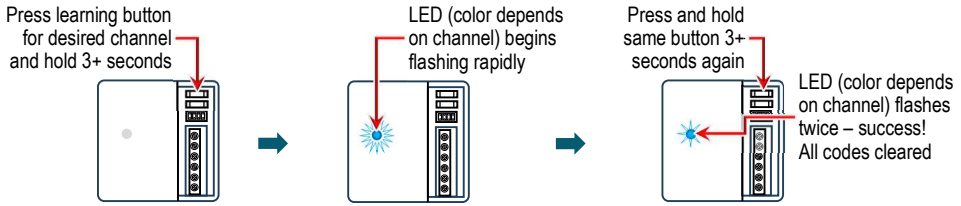


To learn more codes, repeat.

NOTES

- The indicator LED will flash up to 15 seconds. If no transmitter button is pressed during this time, the receiver will exit code learning mode, and the LED will turn off.
- If a code is already learned, the LED turns steady then returns to flashing to show that the code has already been learned. Codes will not be learned twice.
- The memory can hold 8 codes. After that, learning a new code overwrites the earliest code learned.

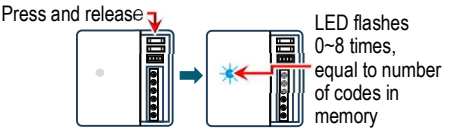
Clearing the Memory



Programming (Continued)

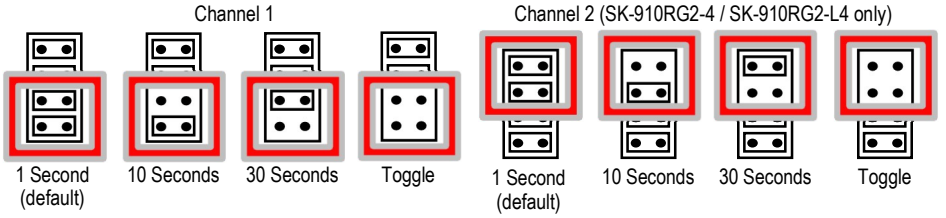
Displaying the Number of Codes Learned

To see how many codes have been learned, press the desired channel's learning button once. The LED will flash (color varies by channel) a number of times (0~8) equal to the number of codes stored.



Setting the Relay Output Mode

Each channel has 4 output modes (default – 1 second, timed) programmable using the jumpers (see *Overview*, pg. 2). The *first two pairs of jumpers* toward the front control *channel 1*. *Two more pairs* of jumpers placed further inside (models with two channels only) control *channel 2*.



NOTE: Tall jumpers that protrude above the case for easy removal are preinstalled. Short jumpers are also provided for use where such protrusion is not preferred.

Troubleshooting

Receiver not working	• Ensure the supplied voltage is within the operating range, and for 24V, the jumper is cut. • Press and hold the transmitter button and check the LED. A steady ON indicates a low battery (≤2.4V). If the LED does not light, the battery must be replaced (≤2.2V). • Ensure the transmitter and receiver are of the same frequency (433.92MHz). • Ensure the transmitter button has been learned by the receiver (see pg. 3). • If the receiver LED lights but the connected device is not triggered, ensure wiring connections are correct and secure. Check the relay output with a meter. If triggering does not change the state, replace the receiver. If the state changes, the problem is with the connected device.
Receiver range is very short or nonexistent	• Adjust the orientation or location of the receiver, as high as possible and away from metal. • Ensure the receiver is not in a metal enclosure and with no other metal obstructions. • Ensure no nearby devices produce magnetic fields or are radio transmission sources

FCC COMPLIANCE STATEMENT

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

IMPORTANT: Users and installers of this product are responsible for ensuring that the installation and configuration of this product complies with all national, state, and local laws and codes. SECO-LARM will not be held responsible for the use of this product in violation of any current laws or codes.

California Proposition 65 Warning: These products may contain chemicals which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

WARRANTY: This SECO-LARM product is warranted against defects in material and workmanship while used in normal service for three (3) years from the date of sale to the original customer. SECO-LARM's obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to SECO-LARM. This Warranty is void if damage is caused by or attributed to acts of God, physical or electrical misuse or abuse, neglect, repair or alteration, improper or abnormal usage, or faulty installation, or if for any other reason SECO-LARM determines that such equipment is not operating properly as a result of causes other than defects in material and workmanship. The sole obligation of SECO-LARM and the purchaser's exclusive remedy, shall be limited to the replacement or repair only, at SECO-LARM's option. In no event shall SECO-LARM be liable for any special, collateral, incidental, or consequential personal or property damage of any kind to the purchaser or anyone else.

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