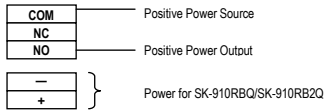
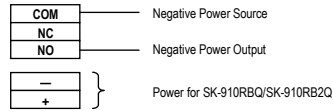


Sample Applications:

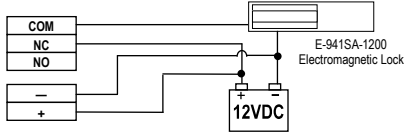
Positive Output



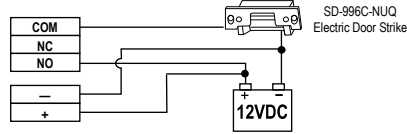
Negative Output



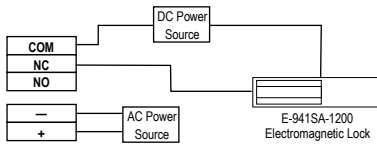
Typical N.C. Application



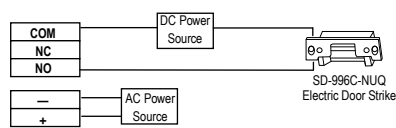
Typical N.O. Application



N.C. Application with Independent Power Sources



N.O. Application with Independent Power Sources



Specifications:

Operating frequency	SK-910RBQ/SK-910RB2Q	315MHz
	SK-910RB-4Q/SK-910RB2-4Q	433.92MHz
Memory capacity	15 transmitter button codes per channel	
Operating voltage	11~24 VAC/VDC	
Operating current	Standby	8mA@12VDC
	Active	30mA@12VDC per channel
Relay contact rating	Form C 10A@24VDC or 120VAC per channel	
Connectors	Screw terminals, +, -, with NO/NC/COM per channel	
Dimensions	3 1/8" x 2 9/16" x 1" (80x65x25mm)	

Compatible Transmitters:

	315MHz	433.92MHz
Fixed Code: 68 billion codes	SK-919 Series Fixed Code	SK-939 Series Fixed Code
CODEBUMP™: 18 quintillion (1.8x10 <sup>18</sup> ) codes	SK-917 Series CODEBUMP	SK-937 Series CODEBUMP

FCC ID: K4E919TP2A

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.

NOTICE: The information and specifications printed in this manual are current at the time of publication. However, the SECO-LARM policy is one of continual development and improvement. For this reason, SECO-LARM reserves the right to change specifications without notice. SECO-LARM is also not responsible for misprints or typographical errors.

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SECO-LARM® U.S.A., Inc.  
16842 Millikan Avenue, Irvine, CA 92606  
Tel: 800-662-0800 / 949-261-2999 Fax: 949-261-7326

Website: www.seco-larm.com  
E-mail: sales@seco-larm.com

PITSW1  
MISK-910RBxQ\_SK-919T2A\_MtuFCC\_1211.docx  
Part #: 762-116-2%

Installation Manual



SK-910RB2Q shown

- SK-910RBQ (315MHz)
- SK-910RB-4Q (433.92MHz)
- SK-910RB2Q (315MHz)
- SK-910RB2-4Q (433.92MHz)

One- and Two-Channel RF Receivers

- Flexible operating voltage: 11~24 VAC/VDC
- Up to 500ft (152m) range
- Independently programmable channels

Now with  
5 Relay Output  
Functions

Note: Products with model numbers that end with "Q" or that have a round green "Q" sticker are RoHS compliant.



Also Available from SECO-LARM:

- SK-910RLQ ..... Low-voltage, one-channel receiver, 315MHz \*
- SK-910RVQ ..... Low-voltage, one-channel receiver, transistor ground output 315MHz
- SK-910RL-4Q ..... Low-voltage, one-channel receiver, 433.92MHz
- SK-910RV-4Q ..... Low-voltage, one-channel receiver, transistor ground output, 433.92MHz

This manual covers only one- and two-channel receivers. For information four-channel receivers, please contact SECO-LARM.

Introduction:

The SK-910RBQ and SK-910RB2Q are wireless receivers that meets the growing demand for receivers with multiple and independently controlled output functions. These RF receivers are compatible with both code hopping and fixed code transmitters (see page 4 of this manual for a list of compatible transmitters). The receivers can be used to control a variety of home automation devices such as garage door openers, lights, motorized gates, lifts, or other devices remotely.

Installation Notes:

1. Mount the receiver out of sight in a location where it is not exposed to weather or moisture, and where it is not surrounded by metal. Metal will block the RF signal, resulting in a reduced range.
2. For best range, pull the antenna wire as long and straight as possible. If the receiver receives interference from local RF activity (e.g., an airport or military base), the antenna wire can be folded.

**IMPORTANT: DO NOT CUT THE ANTENNA WIRE.**

**Code Learning a New Transmitter Button:**

Each receiver channel can learn the codes of up to 15 different transmitters on a first-in, first-out basis. Below is the procedure for code learning a new transmitter button.

1. Press the channel mode switch of the desired channel for 3 seconds or more. The channel's LED will start to flash quickly to indicate that it is in learning mode.
2. While the LED is flashing, press the button of the transmitter to be learned one time. The receiver's channel indicator LED will flash once to indicate the transmitter button has been successfully learned. After the button has been learned, the receiver will automatically exit learning mode. To learn further codes, repeat step 1 to re-enter learning mode.

- NOTES:**
- The channel mode switch(es) can be found at the rear of the receiver's case.
  - The channel's indicator LED will flash a maximum of 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 the code being learned has already been learned, the channel indicator LED will turn steady ON and then start flashing again. The code will not be learned a second time.
  - One channel can learn the codes of a maximum of 15 transmitter buttons. If you attempt to learn a sixteenth transmitter code, the earliest code learned will be deleted and the new code will be learned.

**Clear Channel Memory:**

To clear all codes from a channel's memory, press the channel's mode switch for 3 seconds or more until the channel indicator LED flashes. Release, and then press the switch again for 3 seconds or more until the LED stops flashing. The LED will then flash twice to indicate that all codes associated with that channel have been deleted.

**Display Channel Memory:**

To see how many codes have been learned by a channel, press that channel's mode switch once. The number of codes stored in the channel's memory is equal to the number of times the channel indicator LED flashes.

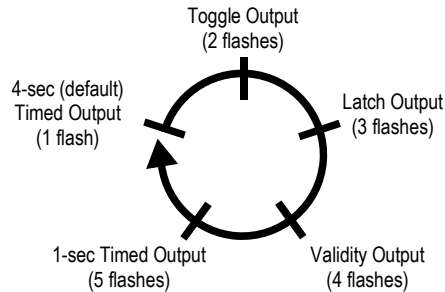
**Programming Channel Relay Output Function:**

Each channel relay can be programmed for one of five output functions. **SK-910RB2Q only:** Each channel can be independently programmed to operate in a different function, depending on the user's application. The five functions are:

1. **4-Second Timed Output** (default) – When the transmitter button is pressed, the relay will turn ON for 4 seconds.
2. **Toggle Output** – Works much like a toggle switch to turn a device ON & OFF alternately. Press the transmitter button once, and the relay turns ON. Press the transmitter button again, and the relay turns OFF.
3. **Latch Output** – Press the transmitter button once, and the relay turns ON and stays ON. The channel relay will remain ON regardless of whether a compatible transmitter button is pressed again or not. To turn the relay OFF, press the channel's mode switch on the receiver once to reset.
4. **Validity Output** – The channel will turn the relay ON for as long as the transmitter button is pressed.  
 Note: Due to possible interference or drops in transmitter battery power while the transmitter button is continuously pressed (even for short periods of time), the receiver may lose the transmitter's signal and turn the relay OFF.
5. **1-Second Timed Output** – When the transmitter button is pressed, the relay will turn ON for 1 second.

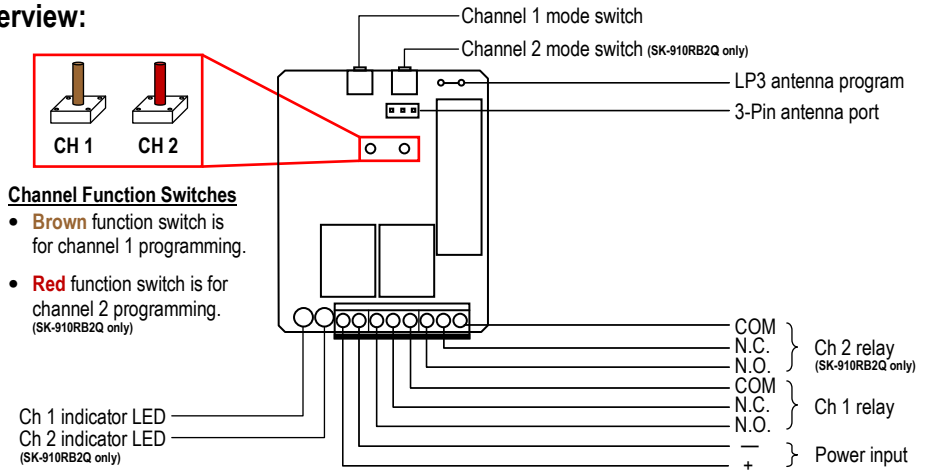
**Selecting the relay output function:**

- Hold down the channel function switch for 3 or more seconds. The channel's LED will flash a number of times equal to the output mode that it is in.
- To change a channel's function, press the channel's function switch. Each press moves to the next function in the sequence as shown in the diagram to the right.
- After changing functions, count the number of times the channel LED flashes to verify the channel is set to the correct function.
- To exit function programming, hold the appropriate function switch for 3 seconds, or wait 15 seconds.



**Note:** For a diagram of the PC board, including the location of the function switch(es), please see Overview, page 3.

**Overview:**



(PC board shown. Remove the front cover of the receiver to access the function switch(es) and terminal block.)

**Channel Mode Switch Operation (One per Channel):**

Learn mode	Press and hold the channel mode switch for three seconds or more.
Clear memory	Press and hold the channel mode switch for three seconds or more, then when the LED starts flashing, press again for three seconds to delete all previously learned codes.
Reset latched output	If the channel was programmed for latch output, once the relay is turned ON with a transmitter button, press the channel mode switch of that channel once to turn the relay OFF.
Memory Display	Press and release the channel mode switch to show the number of codes stored. The LED will flash a number of times corresponding to the number of codes stored.

**LED Indication (One per Channel):**

Steady ON	Receiving signal from a transmitter button during normal operation, or indicates a transmitter button's code already exists in the receiver's memory during code learning.
Fast flash	Receiver is in code-learning mode or channel memory display mode, or during the programming channel output mode.
One flash	A transmitter button code was learned, or receiver channel is in 4-second timed output mode.
Two flashes	All previously learned transmitter buttons were deleted, or receiver channel is in toggle output mode.
Three flashes	Receiver channel is in latched output mode.
Four flashes	Receiver channel is in validity output mode.
Five flashes	Receiver channel is in 1-second timed output mode.
0-15 flashes	During normal operation, pressing a channel mode switch will cause the channel indicator LED to flash. Number of flashes indicates the number of transmitter buttons currently stored.

**Extended Range Antenna (Optional):**

The SECO-LARM SK-91ERSDQ extends RF receiver range up to 1,000ft (304m) (open air) with existing remotes. It comes with a 9ft (2.7m) cable that easily plugs into the 3-pin antenna port located on the RF receiver.

**Note:**

- If an extended range antenna is used, the "LP3" on the receiver PC board must be cut.
- Actual antenna range will vary greatly depending on the operating environment.

