ENFORCER®

SK-910R Series

RF Receivers

Manual

SK-910RQ shown

Model	Voltage	Channels	Output	Frequency
SK-910RQ* **	11~24 VAC/VDC	1	10A Form "C" relay output	315MHz
SK-910R-4Q**	11~24 VAC/VDC	1	10A Form "C" relay output	433.92MHz
SK-910R2Q*	11~24 VAC/VDC	2	10A Form "C" relay output x2	315MHz
SK-910R2-4Q**	11~24 VAC/VDC	2	10A Form "C" relay output x2	433.92MHz

*Only 315MHz models are FCC compliant   **CE compliant

Compatible Transmitters:

	315MHz	433.92MHz
Fixed Code: 68 billion codes	SK-919 Series Fixed Code	SK-939 Series Fixed Code
CODEBUMP™: 18 quintillion (1.8×10^{19}) codes	SK-917 Series CODEBUMP	SK-937 Series CODEBUMP

For a full and up-to-date listing of compatible transmitters, visit www.seco-larm.com
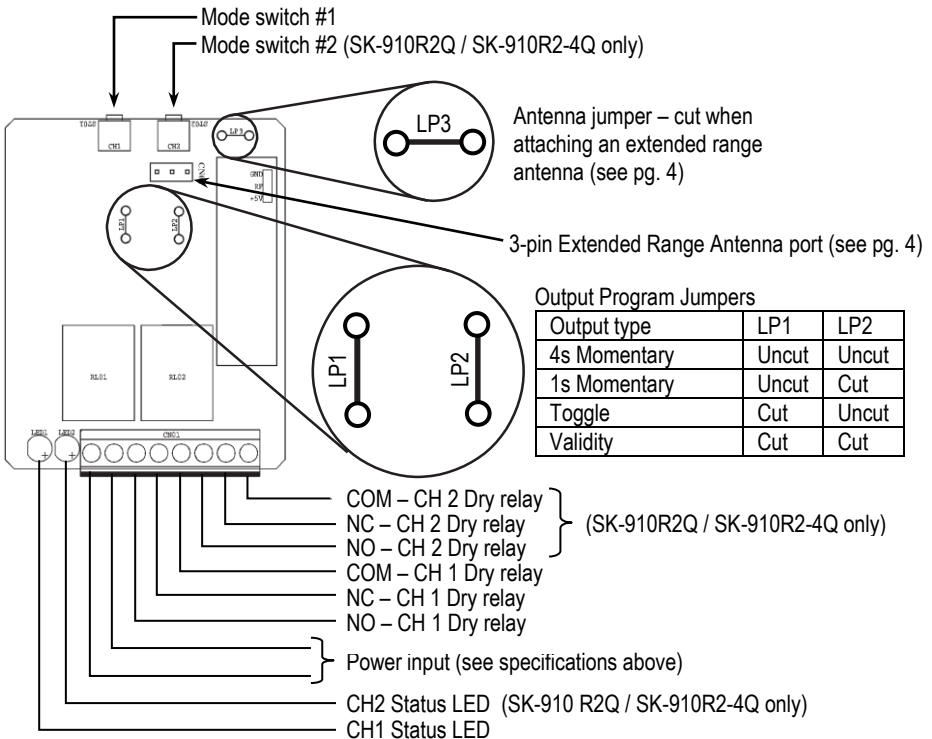
SECO-LARM® SLI®

FC* C€ ** RoHS

Introduction:

These RF receivers are compatible with both code-hopping and fixed-code transmitters (see pg. 1 or visit www.seco-larm.com for a complete, up-to-date listing). They can be used for a variety of applications, such as allowing the same transmitter to arm/disarm a vehicle alarm and open/close a garage door opener. The receivers come in one- or two-channel versions. Each channel can learn the codes of up to 15 different transmitter buttons on a first-in, first-out basis.

Specifications:

Model	SK-910RQ	SK-910R-4Q	SK-910R2Q	SK-910-R2-4Q
Operating voltage	11.2~24 VAC/VDC			
Current draw	8mA@12VDC standby, 30mA@12VDC per channel, LED flashing			
Memory capacity	15 Transmitter button codes per channel			
Output mode	Programmable 4s momentary (default), 1s momentary, toggle (ON/OFF), or validity			
Output type	10A@24VDC or 120VAC Form "C" relay			
Frequency	315MHz	433.92MHz	315MHz	433.92MHz
Operating temperature	-40°~167° F (-40°~75° C)			
Dimensions	$3^1/_4$"x$2^{11}/_{16}$"x$1^1/_{16}$" (83x68x27.5 mm)			

Overview:

Mode switch #1
Mode switch #2 (SK-910R2Q / SK-910R2-4Q only)

LP3

Antenna jumper – cut when attaching an extended range antenna (see pg. 4)

3-pin Extended Range Antenna port (see pg. 4)

Output Program Jumpers

Output type	LP1	LP2
4s Momentary	Uncut	Uncut
1s Momentary	Uncut	Cut
Toggle	Cut	Uncut
Validity	Cut	Cut

COM – CH 2 Dry relay
NC – CH 2 Dry relay   (SK-910R2Q / SK-910R2-4Q only)
NO – CH 2 Dry relay
COM – CH 1 Dry relay
NC – CH 1 Dry relay
NO – CH 1 Dry relay
Power input (see specifications above)
CH2 Status LED (SK-910 R2Q / SK-910R2-4Q only)
CH1 Status LED

Installation Notes:

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

Code Learning a New Transmitter Button:

Learning a New Button Code (Channel 1)

1. Press the mode switch #1 for three seconds. The green LED will start to flash quickly.
2. While the green LED is flashing quickly, press a button on a compatible transmitter. The green LED will flash once and then turn off to show that button was learned.
3. Repeat steps 1 and 2 to learn more buttons into channel 1.

NOTE: The green 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 green LED will turn off

Learning a New Button Code (Channel 2, SK-910R2Q / SK-910R2-4Q only)

The procedure is the same as for channel 1, except mode switch #2 initiates the code-learning process, and the red LED shows status.

NOTES:
1. The receiver will only learn the code of a particular button once. Once a button's code is learned, if you try to code-learn that button again, whether it is for the same channel or not, the receiver will exit the code learning mode.
2. Each channel can learn the codes of a maximum of 15 transmitter buttons. If you attempt to learn a sixteenth button, the earliest code learned will be deleted and replaced by the new code (first-in, first out).
3. To clear all codes in the channel's memory, press the appropriate mode switch (#1 or #2) for three seconds. When the LED starts flashing, press that switch again for three seconds. The LED flashes twice to indicate that all codes associated with that channel are now deleted.

Programming Output Modes (See Table 1, below):

4-Second momentary	Press the transmitter button once. The output turns on for 4 seconds, and then off. (This is the DEFAULT mode).
1-Second momentary	Press the transmitter button once. The output turns on for 1 second, and then off.
Toggle	Press the transmitter button once, and the output turns on. Press a compatible transmitter button again, and the output turns off.
Validity	The relay turns on for as long as the transmitter button is pressed.

Table 1: To program outputs, open case and find the jumpers marked LP1 and LP2. Cut these jumpers, if needed, as shown below:

	4s Momentary	1s Momentary	Toggle	Validity
LP1	Uncut	Uncut	Cut	Cut
LP2	Uncut	Cut	Uncut	Cut

NOTE: For the 2-channel models, the mode of both outputs is the same. In other words, you cannot have 4-second momentary output for channel 1 and a validity output for channel 2.

Mode Switch Operation (One per Channel):

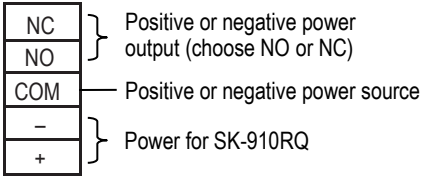|	
Learn mode	Press and hold the channel mode switch for three seconds.
Clear memory	Press three seconds. When the appropriate LED starts flashing, press again for three seconds to delete all previously learned codes.
Memory display	Press and immediately release the mode switch to show number of codes stored. The appropriate LED will flash a number of times corresponding to the number of codes stored.

LED Indicators (One per Channel):

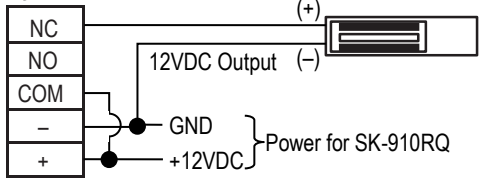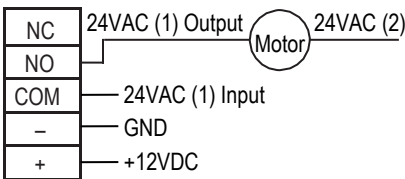| Steady ON	Senses signal from a transmitter button whose code was already learned.
Fast flash	In the code-learning mode.
One flash	A transmitter button code was learned.
Two flashes	All previously learned transmitter buttons codes were deleted.

Sample Applications:
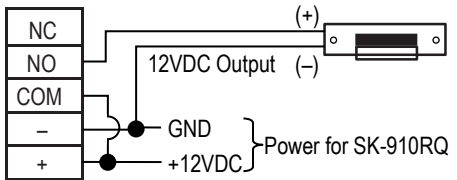
Positive or negative output

NC	} Positive or negative power
NO	output (choose NO or NC)
COM	— Positive or negative power source
−	} Power for SK-910RQ
+	

Typical N.C. application

NC	(+)
NO	12VDC Output (−)
COM	
−	GND } Power for SK-910RQ
+	+12VDC

12VDC Receiver power input
24VAC Output driving a motor

NC	24VAC (1) Output (Motor) 24VAC (2)
NO	
COM	— 24VAC (1) Input
−	— GND
+	— +12VDC

Typical N.O. application

NC	(+)
NO	12VDC Output (−)
COM	
−	GND } Power for SK-910RQ
+	+12VDC

Extended Range Antenna:

The SECO-LARM SK-91ERSD / SK-93ERSD significantly extends RF receiver range 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.

SK-91ERSD (315MHz)
SK-93ERSD (433.92MHz)

NOTES:

- Antenna range will vary greatly depending on the installation and operating environment.
- To use an extended range antenna, the loop marked "LP3" on the receiver PC board must be cut.
- To protect the antenna components and the RF receiver circuits, please turn off power to the RF receiver before cutting the loop "LP3" on the PC board and before connecting or disconnecting an external antenna.
- The SK-9xERSD is not weatherproof. For outdoor use, seal the case seams and connections with silicone sealant.

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