Installation Manual

ENFORCER®

SK-910R3Q	3 Channels (315MHz)
SK-910R3-4Q	3 Channels (433.92MHz)
SK-910R4Q	4 Channels (315MHz)
SK-910R4-4Q	4 Channels (433.92MHz)

(SK-910R4Q pictured)

Three- and Four-Channel RF Receivers

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

4 Relay Modes

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-910RBQ .... One-channel receiver, 315MHz
SK-910RLQ ....Low-voltage, one-channel receiver, 315MHz
SK-910RVQ ....Low-voltage, one-channel receiver, transistor ground output 315MHZ
SK-910R-4Q .... One-channel receiver, 433.92MHz
SK-910RL-4Q ....Low-voltage, one-channel receiver, 433.92MHz
SK-910RV-4Q...Low-voltage, one-channel receiver, transistor ground output, 433.92MHz
SK-910RB2Q... Two-channel receiver, 315MHz
SK-910RB2-4Q.. Two-channel receiver, 433.92MHz

This manual covers only the three- and four-channel receivers. For information on all other receivers, please contact SECO-LARM.

Introduction:

The SK-910R3Q and SK-910R4Q are wireless receivers that meet the growing demand for multi-channel receivers with multiple and independently controlled output modes. RF 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.

These receivers are compatible with both fixed code and code hopping transmitters. Code hopping transmitters, such as SECO-LARM CODEBUMP™ transmitters, change codes every time transmitter sends a signal for extra security. See page 4 of this manual for a list of compatible transmitters.

Installation Notes:

1. Mount the receiver out of sight in a location where it is not exposed to the 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. 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. The same procedure applies to each of the receiver's channels.

1. Press the transmitter programming button of the desired channel to be programmed for 3 seconds or more. The channel's LED will start to flash quickly to indicate that it is in the learning mode.
2. While the LED is flashing, press the button of the transmitter to be learned once. The LED will flash once to indicate a successful learning of that button's code. After the button has been learned, the receiver will automatically exit the learning mode. Repeat step 1 to re-enter the learning mode.

NOTE:

- The transmitter programming buttons can be found at the rear of the receiver's case. The button number corresponds with the channel number. For example, button #1 is the programming button for channel 1.
- The channel's LED will flash for a maximum of 15 seconds. If no transmitter button is pressed during this time, the receiver will exit the code-learning mode, and the LED will turn off.
- If the code being learned has already been learned, the LED for the channel which learned the code will turn steady ON and then start flashing again. The code will not be learned a second time.
- Each channel can learn the codes of a maximum of 15 transmitter buttons. If you attempt to learn a sixteenth transmitter code, the earliest code will be deleted.

Clear Channel Memory:

To clear all codes in the channel's memory, press the transmitter programming button for that channel for 3 seconds or more until the LED flashes. Release, and then press that button 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 in a channel, press that channel's transmitter programming button once. The number of codes stored in the channel's memory is equal to the number of LED flashes.
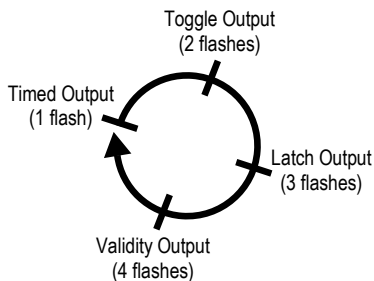
Programming Each Channel Relay Output Mode:

Each receiver channel can be programmed for one of five different modes, and each individual channel may operate at a different output mode, depending on the user's application. The five modes are:

1. **Timed Output** – Press the transmitter button once. The timed output relay will activate from 1~60 seconds, depending on the set output time. See page 3 for information on programming the output time. (DEFAULT: 1 second timed output)
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 relay will remain ON until the appropriate channel's transmitter programming button is pressed once to reset, regardless of whether a compatible transmitter button is pressed again or not.
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.

- Press the programming mode switch once to program a channel's output mode. That channel's LED will flash a number of times equal to the output mode that it is in.
- To change modes, press the desired channel's mode button. Each press moves to the next mode in the sequence shown in the diagram to the right. After changing modes, count the number of times the channel LED flashes to verify the channel is in the correct mode.
- The programming procedure for each channel is the same.
- To exit programming, press the programming mode switch again.

Toggle Output
(2 flashes)

Timed Output
(1 flash)

Latch Output
(3 flashes)

Validity Output
(4 flashes)

NOTE: For a diagram of the PC board, including the location of the mode buttons, please see *Overview*, page 3.

SECO-LARM U.S.A., Inc.

Overview:
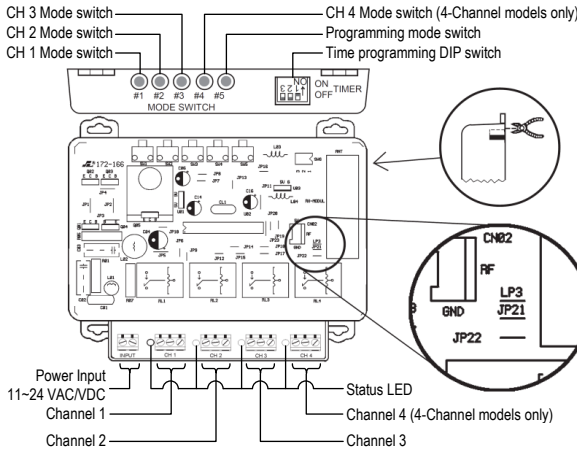
Sec.	SW1	SW2	SW3
1	On	Off	Off
2	Off	On	Off
3	Off	Off	On
4	On	Off	On
5	Off	On	On
10	On	On	Off
30	Off	Off	Off
60	On	On	On

If an optional antenna is used, LP3 must be cut and the antenna slot on the receiver case must be chipped off to accommodate the extended range antenna wire.

(PC Board shown. Remove the front cover of the receiver to access the mode buttons and terminal block.)

Transmitter Programming Button Operation (One per Channel):

Learn mode	Press and hold the transmitter programming button for three seconds or more.
Clear memory	Press and hold the transmitter programming button 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 this channel was programmed for latch output, once the relay is turned ON with a transmitter button, press the transmitter programming button of that channel once to turn the relay OFF.
Memory display	Press and release the transmitter programming button 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	Senses signal from a transmitter button in normal operation, or indicates a transmitter button's code already exists in the receiver's memory during code learning.
Fast flash	In the code-learning mode or channel memory display mode, or during the programming channel output mode.
One flash	A transmitter button code was learned, or the relay is in timed output mode.
Two flashes	All previously learned transmitter buttons were deleted, or the relay is in toggle output mode.
Three flashes	Latch output.
Four flashes	Validity output.
0~15 flashes	In the normal operation mode, pressing the channel mode button once will display the number of codes learned.

Extended Range Antenna (Optional):

Extends RF receiver range up to 1,000ft (304m) (open air) with existing remotes.
Comes with a 9ft cable that easily plugs into the 3-pin antenna port located on the RF receiver.
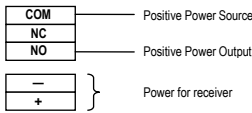
NOTE:
- If an extended range antenna is used, the "LP3" on the receiver PC board must be cut.
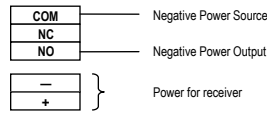- Actual antenna range will vary greatly depending on the operating environment.

SK-91ERSD

SECO-LARM U.S.A., Inc.

3

Sample Applications:

Positive Output
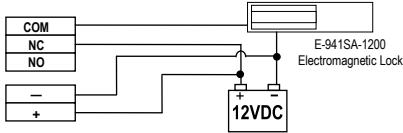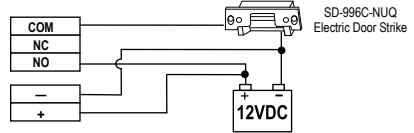
COM	Positive Power Source
NC	
NO	Positive Power Output

| − | } Power for receiver |
| + | |

Negative Output

COM	Negative Power Source
NC	
NO	Negative Power Output

| − | } Power for receiver |
| + | |

Typical N.C. Application

| COM |
| NC |
| NO |

| − |
| + |

12VDC

E-941SA-1200
Electromagnetic Lock

Typical N.O. Application

| COM |
| NC |
| NO |

| − |
| + |

12VDC

SD-996C-NUQ
Electric Door Strike

N.C. Application with Independent Power Sources

| COM |
| NC |
| NO |

| − |
| + |

DC Power Source

AC Power Source

E-941SA-1200
Electromagnetic Lock

N.O. Application with Independent Power Sources

| COM |
| NC |
| NO |

| − |
| + |

DC Power Source

AC Power Source

SD-996C-NUQ
Electric Door Strike
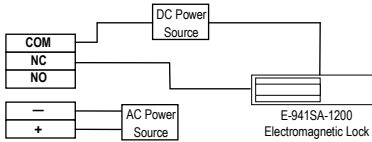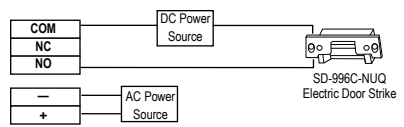
Specifications:

Model		SK-910R3Q	SK-910R3-4Q	SK-910R4Q	SK-910R4-4Q
Operating frequency		315MHz	433.92MHz	315MHz	433.92MHz
Number of channels		3	3	4	4
Memory capacity		15 transmitter button codes per channel			
Operating voltage		11~24 VAC/VDC			
Operating current	Standby	12mA@12VDC			
	Active	50mA@12VDC per channel			
Relay contact rating		Form C 10A@24VDC or 120VAC per channel			
Connectors		Screw terminals, +, -, with NO/NC/COM per channel			
Dimensions		5.3"x3.9"x1.1" (135x100x27.5mm)			

Compatible Transmitters:

Operating frequency	315MHz	433.92MHz
Fixed Code: 68 billion codes	SK-919 Series Fixed Code	SK-939 Series Fixed Code
CODEBUMP™: 18 quintillion ($1.8x10^{19}$) codes	SK-917 Series CODEBUMP	SK-937 Series CODEBUMP

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.

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-910R3Q_SK-910R4Q_1204.docx

SECO-LARM U.S.A., Inc.

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com