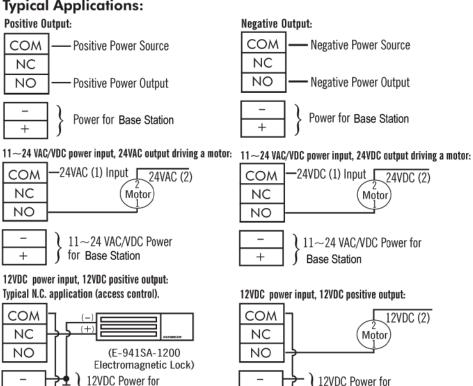
Typical Applications:



General Specifications

Base Station

Operating Frequency:	315MHz (SK-910R4), 433.92MHz (SK-910R4-4)	
Memory Capacity:	15 transmitter button codes per channel, 60 per receiver.	
Operating Voltage:	11VDC ~ 24VDC or 11VAC ~ 24VAC	
Operating Current: 8 mA @ 12VDC (standby), 30mA/channel @ 12VDC (activate		
Relay Contact Rating:	elay Contact Rating: Form 'C' type; 10A @ 24VDC or 120VAC per channel	
Connectors:	Screw Terminals, +, -, with N.O., N.C., and COM per channel	
Dimensions:	5.3" x 3.9" x 1.1" (135 x 100 x 27.5 mm)	

FRIGHT IDEAS 6 OAKSIDE COURT BARRIE, ON L4N 5V5 CANADA

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Base Station





Installation Manual

Four-Channel RF Receiver

- Operates on 11-24VAC/VDC*
- Up to 500 ft. range

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 to moisture. 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.
- * All models work on 11-24VAC/VDC, except for the low voltage versions.

Code Learning a New Transmitter Button

Each receiver channel can learn the codes of up to 15 different transmitter buttons on a first-in, first-out basis. Below is the procedure for code learning a new transmitter button. The same procedure applies to all the receiver's four channels.

- Press the mode switch of the desired channel to be programmed for 3 seconds or more. The channel's red LED will start to flash quickly to indicate that it is in the learning mode.
- While the red LED is quickly flashing, press the button of the transmitter to be learned once. The red LED will flash once to indicate a successful learning of that button's code.
- NOTE: a) The mode switches can be found at the rear of the receiver's case (see Fig. 1). The switch marked #1 represents the mode switch for channel 1, switch #2 is the mode switch for channel 2, and so on.
 - b) The channel's red LED will flash a maximum of 15 seconds. If no transmitter button is pressed during this time, the receiver will exit the code-learning mode, and the red LED will turn off.
 - c) If the code being learned has already been learned, the red LED for the channel which learned the code will turn steady ON, and the code will not be learned a second time.
 - d) 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.

Channel Memory Clear

To clear all codes in the channel's memory, enter the channel learning mode first, then press the channel mode switch for 3 or more seconds again. The LED flashes twice to indicate that all codes associated with that channel are now deleted.

Channel Memory Display

To see how many codes have been learned in 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 LED flashes.

Programming Each Channel Relay Output Mode

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

- Timed Output Press the transmitter button once. The timed output relay will activate from 1 ~60 seconds, depending on how long the timed output duration is set (Factory default is 1-second timed output.).
- 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 a compatible transmitter button again, and the relay turns off.
- Latch Output— Press the transmitter button once, and the relay turns on and stays on. The relay will remain on until
 the appropriate channel mode switch is pressed once to reset, regardless of whether a compatible transmitter
 button is pressed again or not.
- Validity Output— The channel will turn the relay ON for as long as the transmitter button is pressed.
 Note: Care must be taken when using validity output. 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.

To program each channel output mode, press the programming mode switch once (switch #5, see Fig. 1). Each channel's red LED will flash a number of times equal to the output mode that it is in. Below are the channel output LED flash indicators:

1.) One flash —Timed Output

3.) Three flashes-Latch Output

2.) Two flashes—Toggle Output

4.) Four flashes-Validity Output

Press the mode switch of the desired channel to be programmed a number of times until the required output is achieved. The programming procedure for all four channels is the same.

To exit programming, press programming mode switch again.

Setting the Timed Output Timer

When a relay output is set to "timed output," it turns ON for 1 to 60 seconds when a compatible transmitter button is pressed. To program the output timer, flip the DIP switches in the timer programming switch according to Table 1.

Note: If more than one relay is set to "timed output," each relay turns ON for the same amount of time.

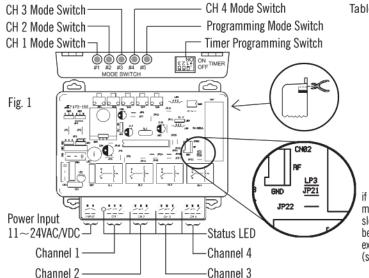


Table 1- Timer Programming Switch Setting.

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		
+ D - C - II O - II'					

* Default Setting

if optional antenna is used LP3 must be cut and the antenna slot on the receiver case must be chip off to accomodate the extended range antenna wire (see Fig. 1).

Channel Mode Switch Operation (one per channel)

- Learn mode Press and hold the switch for three seconds or more.
- Clear memory Press and hold the 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 this channel was programmed for latch output, once the relay is turned on with a
 transmitter button, press the mode switch of that channel once to turn the relay OFF.
- Memory Display Press and release the 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 Senses signal from a transmitter button 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's code was learned, or the relay is in time output mode.
- Two flashes All previously learned transmitter button codes were deleted, or the relay is in toggle output mode.
- Three flashes Latched output.
- Four flashes Validity output.
- 0~15 flashes In the normal operation mode, pressing the channel mode switch (1~4) once will display the number of codes learned.