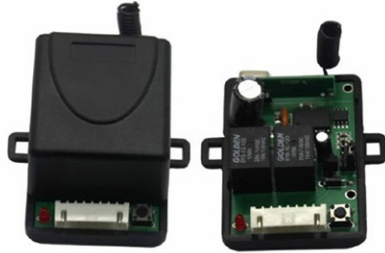# INSTALLATION INSTRUCTIONS

WRC SERIES
433MHz WIRELESS TRANSMITTER/RECEIVER

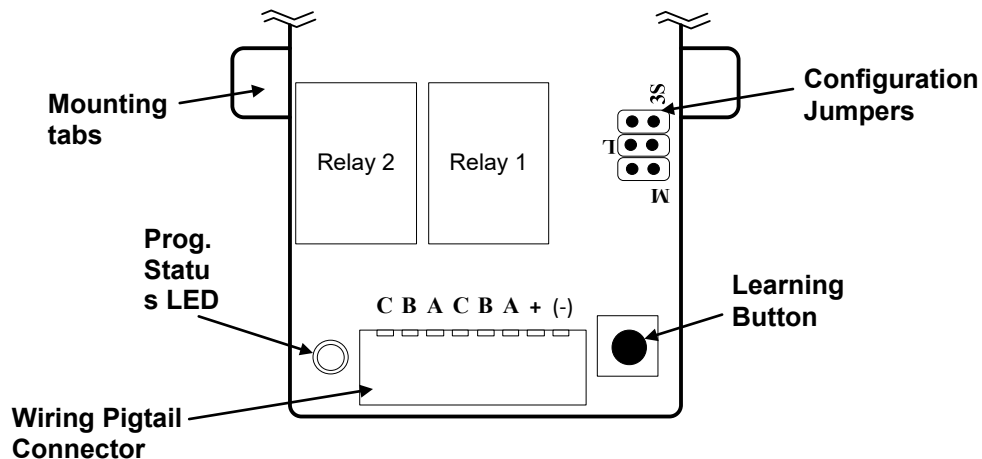**SDC P/N: WRC-R2 or WRC-R2-12**

SDC P/N: WRC-2B

WRC-R2 Series – Two-Channel Wireless Receiver Specifications:
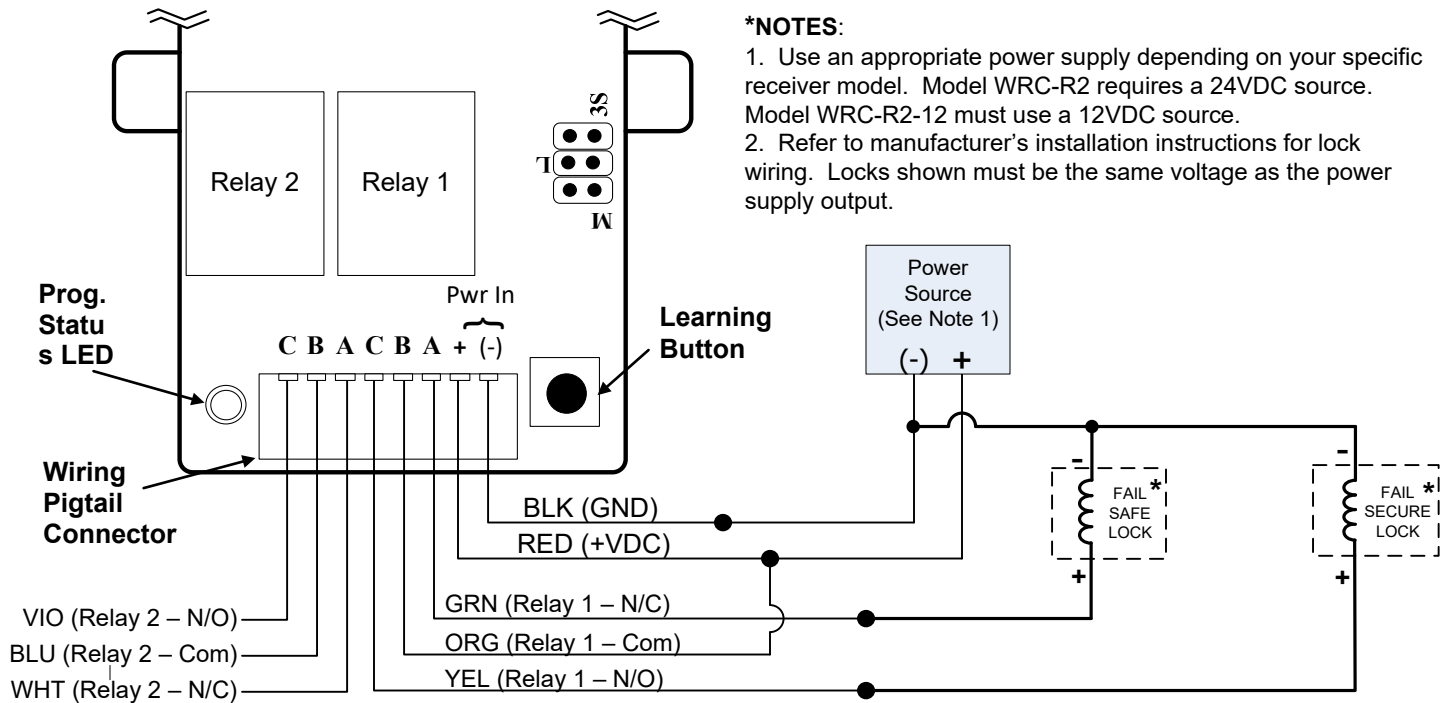
- Size with housing (approx.): 2.5" H x 1.75" W x 1.2" D
- Frequency: 433.92MHz
- Environmental: Indoor
- Operating Temperature: -22°F – 140°F
- Input Voltage (+/- 10%):
  > **Model WRC-R2** – 24VDC
  > **Model WRC-R2-12** – 12VDC
- Current consumption: 9mA (standby); 70mA (max)
- Relay Outputs: Two (2) Dry, Form C (SPDT)
- Contact rating: 10A@30VDC (resistive)
- Wiring connections: 12", 8-wire pigtail
- Transmitter coding capacity: 30 (fixed code)
- Transmitter programming using onboard learning button and status LED

WRC-2B – Two-Button Transmitter Specifications:

- Operates with WRC-R2 Series
- Frequency: 433.92MHz
- Voltage: 6VDC
- Battery Replacement: – CR2016 Button Cell 3V Lithium battery (x 2)
- Transmitting distance: 50 m (no obstructions)
- Housing: Keychain type

- Activation: Hold "A" or "B" button for 1 sec.

Mounting tabs

Relay 2   Relay 1

Configuration Jumpers

3S

L

M

Prog. Status LED

C B A C B A + (-)

Learning Button

Wiring Pigtail Connector

SDC

SECURITY DOOR CONTROLS ■ WWW.SDCSECURITY.COM

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Operation & Typical Wiring

*NOTES:

1. Use an appropriate power supply depending on your specific receiver model. Model WRC-R2 requires a 24VDC source. Model WRC-R2-12 must use a 12VDC source.

2. Refer to manufacturer's installation instructions for lock wiring. Locks shown must be the same voltage as the power supply output.

OPERATIONAL MODES – 4 available modes; select using on-board Configuration Jumpers (NOTE: Receiver cover will need to be removed by carefully using a <u>small</u> phillips screwdriver to remove the two screws on the back of the unit. Be careful not to strip or overtighten the screws)

Setting	Mode Description
	Manual (M) (default) – Pressing remote button "A" activates relay "1". Relay "1" remains active only while remote button "A" is pressed; Pressing remote button "B" activates relay "2". Relay "2" remains active only while remote button "B" is pressed.
	Latching (L)– Pressing either remote button activates its respective relay. The relay remains active until the other remote button is pressed, activating its respective relay.
	Timed (3s) – Remote button "A" activates relay "1" for 3 seconds (fixed); remote button "B" activates relay "2" for 3 seconds (fixed). Both relays may be activated simultaneously.
	Toggle (Jumper OFF) – Pressing remote button "A" activates relay "1". Relay "1" remains active until remote button "1" is pressed again; Pressing remote button "B" activates relay "2". Relay "2" remains active until remote button "B" is pressed again. Both relays may be activated simultaneously.

PROGRAMMING A TRANSMITTER:

1. Power the receiver using the appropriate power source.

2. Press the Learning Button for 1 sec., then release (LED will light while pressed)

3. Within 30 seconds, press & hold the "A" or "B" on the transmitter, until the Status LED on the Receiver starts flashing, then release.

The transmitter is now added to the receiver. *To Activate*, hold "A" or "B" button for 1 sec (the blue LED on the transmitter will light).

To delete all transmitters from the receiver, press & hold the learning button for 7 secs., until the status led turns off.