SDC Security Door Controls

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INSTALLATION INSTRUCTIONS
WRC SERIES – 433MHz Wireless Transmitter/Receiver

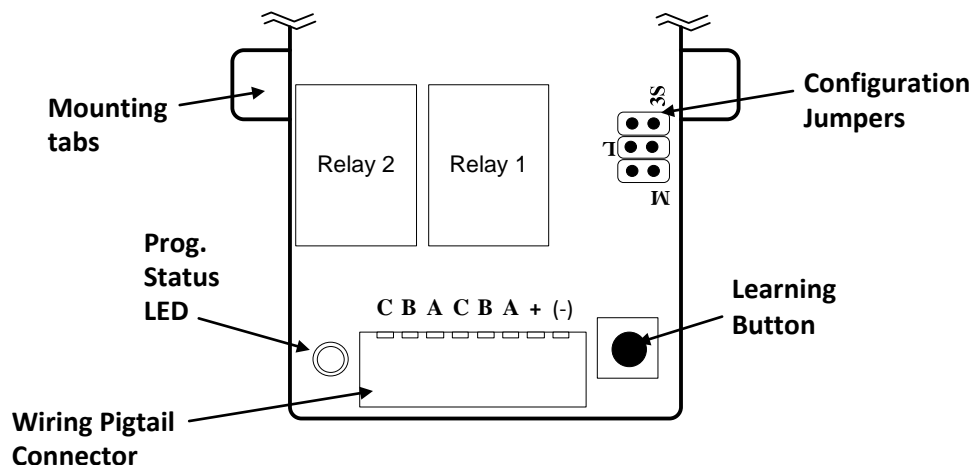**SDC P/N: WRC-R2 or WRC-R2-12**   **SDC P/N: WRC-2B**

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); 46mA (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
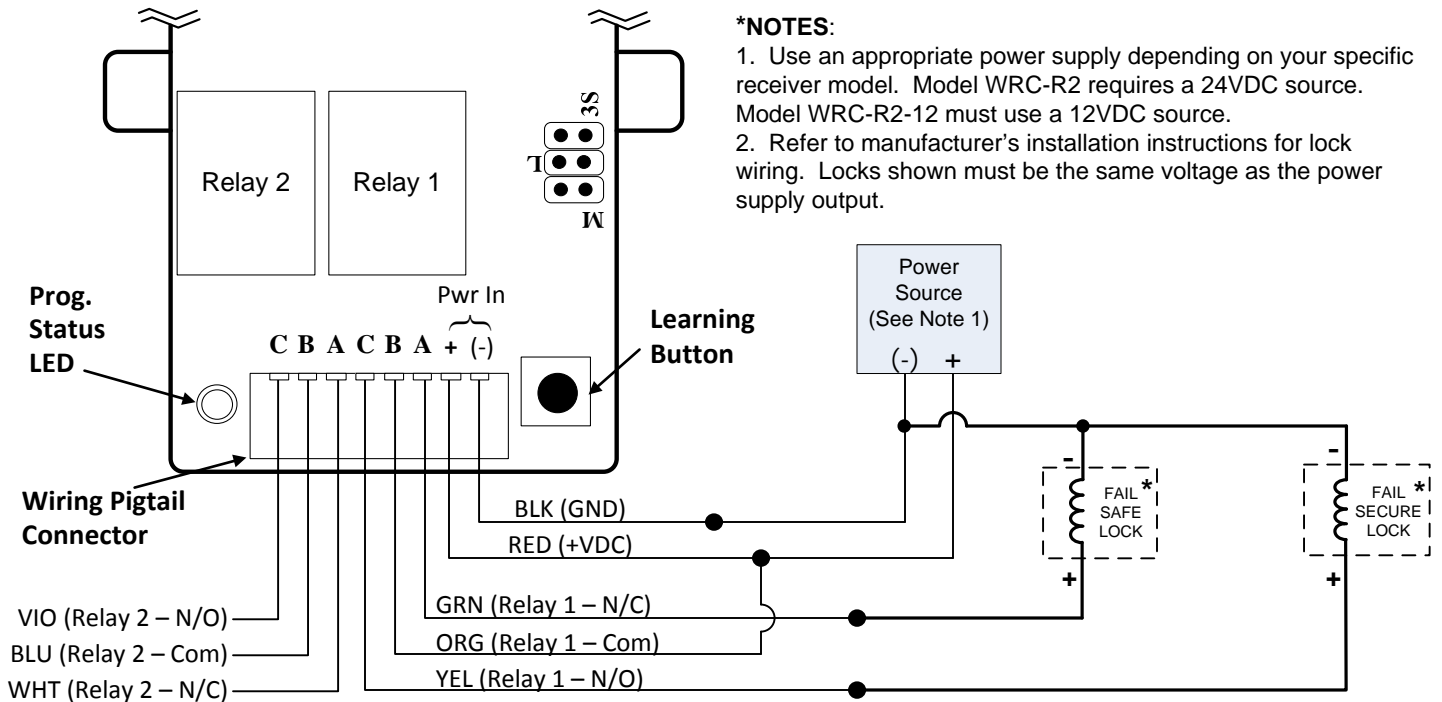
WRC-2B – Two-Button Transmitter Specifications:

- 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

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.

Relay 2   Relay 1

3S
T
M

Pwr In

C B A C B A + (-)

Prog. Status LED

Learning Button

Power Source (See Note 1)

(-) +

Wiring Pigtail Connector

BLK (GND)
RED (+VDC)
GRN (Relay 1 – N/C)
ORG (Relay 1 – Com)
YEL (Relay 1 – N/O)

VIO (Relay 2 – N/O)
BLU (Relay 2 – Com)
WHT (Relay 2 – N/C)

FAIL SAFE LOCK *
FAIL SECURE LOCK *

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
3S T M	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.
3S T M	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.
3S T M	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.
3S T M	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.