Please read this entire guide before beginning the installation!
Supplied Parts

- Transmitters (2) 433 MHz
- Remote Cutoff Switch - RCS4 (1) 4 Zone Controller
- I/O Cable (1) 4 Wire + Ground
- Installation Guide (1)

- Antenna (1) 9 Foot
- DIN Mounting Rail (1) 6 Inch
- 4 Circuit Contactor (1) 24 Amp AC x 4 Circuits 12 VDC Trigger
- Power Supply (1) 12 VDC

Additional Parts - Supplied by your installer

- 12”x12” electrical enclosure (Indoor / Outdoor)
- Conduit to main electrical panel
- 120 VAC outlet and housing
- Mounting hardware

Optional Accessories - Supplied by Safe Living Technologies

- Additional 24 Amp, 4 Circuit Contactor
  - Allows for 4 more (15 Amp or 20 Amp) branch circuit to be controlled (24 Amp x 4 circuits) State:(normally closed)
  - Allows for the use of an additional zone (A and B, C or D)
  Note: Each zone in use requires a contactor
- Additional Hand Held Transmitter – Control Cutoff
  Switches from multiple locations with an additional transmitter
- Extended Antenna with 49 foot Cable
- Optional 40 Amp 4 Circuit Contactor - 40 Amp x 4 circuits DC Trigger. State:(normally open) (contact us for more information)
Theory of Operation:

AC Electric Fields are produced by the presence of AC electricity. Their strength is determined by voltage; the higher the voltage, the stronger the field. AC Electric Fields are radiated from live electrical wires and generally travel 6-8 feet from the source, but in some cases further. An electric field will exist even when a device is not in use (turned off). These sources produce a continual emission. AC Electric Fields have a natural attraction to ground and are considered low frequency electromagnetic radiation. (5Hz-400,000 Hz).

The purpose of the Remote Cutoff Switch is to de-energize branch circuits at the main electrical panel (MEP). The Remote Cutoff Switch is not load or current dependent. To initiate the Remote Cutoff Switch, one physically needs to press a push-button on a hand-held remote control transmitter. When a button on the transmitter is pressed, a momentary radio frequency control signal is transmitted at a frequency of 433 MHz to the Remote Cutoff Switch. The transmitter has 4 buttons and can control 4 zones A, B, C and D. For example, one could control 4 sleeping areas and they could each shut off as occupants go to bed at different times. Pressing a button will energize or de-energize a coil in the Remote Cutoff Switch. When initiated, it will output a 12VDC signal on one of its 4 output lines, A,B,C or D depending on the button pressed. The Remote Cutoff switch works in conjunction with a 4 circuit/pole contactor. The multi-pole contactor is triggered by the 12VDC output control signal of the Remote Cutoff Switch, switching it open or closed. Each contactor can control 4 separate branch circuits switching on and off the 120VAC to the circuits simultaneously. Each output line controls an individual zone and contactor. Up to 4 zones can be controlled by each Remote Cutoff Switch and multiple contactors can be used on the same zone. An illuminated green channel light indicates that all circuits controlled by that channel or 24 amp contactor are cut off. This means the branch circuits have no AC voltage on them. If the corresponding green channel light is off, the controlled branch circuits are live.

The 4 circuit contactors we supply with the unit are rated for 24 Amps AC x 4 circuits and are compatible with standard, arc fault and GFI circuit breakers. Each contactor can control up to four (15 or 20 Amp AC) branch circuits.
Remote Cutoff Switch – Front Panel

- Antenna Connector
- Program Button / LED
- Power LED
- Zone Indicator LED’s

Remote Cutoff Switch – Back Panel

- I/O Control
- Power
Typical Installation Procedure (Cutoff Switch Inside of Electrical Enclosure)

Warning: To be installed by a licensed electrician and must conform to local electrical code!

1] Attach electrical enclosure to the breaker panel with conduit

2] Mount electrical enclosure onto the wall / backing board

3] Install a standard 120 VAC receptacle inside of enclosure

4] Connect power supply to Remote Cutoff Switch

5] Plugin power supply to upper plug

6] Mount Remote Cutoff Switch

7] Install / connect I/O cable

8] Mount din rail and contactor

9] Connect and mount antenna

10] Ensure enclosure is properly grounded

11] To remove the contactor for maintenance purposes, a slot screw driver is required. Insert the screw driver into the spring loaded tab on the bottom of the contactor and apply a gentle pressure with the screw driver forcing the spring latch to open. This will unlock the contactor from the rail for removal.
Optional Installation Procedure (Cutoff Switch Outside of Electrical Enclosure)
Control Signals:

A - Orange
B - Green
C - Red
D - White
Common – Black

Remote Cut Off Switch Wiring Diagram
Single Zone “A” 8 Circuit Hookup
Control Signals:

A - Orange
B - Green
C - Red
D - White
Common – Black

Remote Cut Off Switch Wiring Diagram
Dual Zone “A & B” 8 Circuit Hookup
Initial Start-up Procedure

- Attach the enclosed warning stickers to electrical enclosure. Clearly label the controlled circuits (2 stickers included)
- Mark the circuit breakers with warning stickers (10 stickers included)
- Ensure installation and wiring is correct
- Supply power by plugging in the power supply
- Each Transmitter is paired to the Cutoff Switch before it is shipped. However, if this is not the case, pairing of transmitters to the remote cutoff switch is are required. To do this, gently press and hold the program button on the remote cutoff switch for 3 seconds. The program LED will flash. While the program LED is flashing, press and release a button on the transmitter. Wait for the program LED to stop flashing. Pairing is now complete. Pair other transmitters if required in the same manner. Test the operation of the transmitter beside the Cutoff Switch and ensure the corresponding zone LED toggles on and off as the respective button is pressed and released
- Test the operation of the transmitter in various locations and monitor for functionality
- Note the transmitter has an extendable antenna to increase its range. Extend if required
- To comply with local electrical code, call for an electrical inspection from your local safety authority

Troubleshooting the Remote Cutoff Switch RCS4:

1] If the Remote Cutoff Switch does not respond to the hand held transmitter, try pairing the transmitter to the Remote Cutoff Switch. (See Initial start-up procedure in the previous section). When a zone button is pushed, a small flashing light will illuminate on the top of the hand held transmitter. This light indicates the hand held transmitter is trying to communicate with the Cutoff Switch. If the light does not illuminate when the button is pushed the battery may be low or the remote control unit may be defective. The battery model is an A23, 12 V Alkaline battery. A new battery usually measures 12.1 volts and a used battery can start causing problems if its voltage falls below 12 volts.

2] If the battery tests okay and the Remote Control hand held device appears to be transmitting but the switch is still not responding, try removing power from the Cutoff Switch. This will in turn reset the Cutoff Switch. This can be done by unplugging the power supply. Allow the power to be turned off for at least one minute.
If your Remote Cutoff Switch is not working very well from far away, you may be experiencing interference from objects near your receiver’s antenna or the floor above or walls surrounding it may be blocking the signal. To improve your remote controls range, try the following:
- The hand held transmitter has an extendable antenna. Extend it fully for better range
- Mount the antenna in various locations around the area of installation and test
- Try changing the direction the antenna is mounted from vertical or horizontal or vice versa
- Mount the receiving antenna in a room adjacent to (above, below or bedside) the location it is currently installed. An optional 50 foot antenna is available which will allow for strategic placement of the antenna, closer to the area of activation.
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