RadioRA 2 Visor Controls

RadioRA 2 Visor Controls allow lights, shades/draperies, and other equipment to be controlled from the car with just a touch of a button on a Visor Control Transmitter or a HomeLink® compatible visor control. Up to ten (10) Transmitters can be used with a Visor Control Receiver.

The Receiver provides two (2) Contact Closure Inputs (CCI) for integration with other systems and one (1) CCI for security systems. The CCIs can be configured to accept maintained or momentary contact closures. The security input is always a maintained CCI.

The Receiver also has four (4) maintained or momentary Contact Closure Outputs (CCO) to control up to four (4) garage doors or motorized gates.

Pre-printed and blank labels are included with the Visor Controls for naming scenes or buttons on both the Receiver and the Transmitter.

RR-VCRX-WH
Visor Control Receiver

LR-3B-H-SW
Visor Control Transmitter

Model Numbers

RR-VCRX-WH*	Visor Control Receiver
RR-VCRX-WHBA*	Visor Control Receiver for Brazil
LR-3B-H-SW**	Visor Control Transmitter

*Only available in White (WH).

**Only available in Snow (SW).

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RadioRA 2 Visor Controls

Specifications

Model Numbers	RR-VCRX-WH, RR-VCRX-WHBA, LR-3B-H-SW
Power	**Receiver:** 9 V⎓ 300 mA **DC adapter:** Input: 120 V~ 60 Hz 6.5 W Output: 9 V⎓ 300 mA **Transmitter:** 6 V⎓ 10 mA (2 - CR2032, included – 10 year lifetime)
Typical Power Consumption	1.6 W Test conditions: two LEDs on (two presets active), powered by the 9 V⎓ adapter supplied, no CCOs or CCIs active.
Regulatory Approvals	**DC adapter:** UL Listed for U.S. and Canada, NOM **Receiver / Transmitter:** FCC, IC, COFETEL, ANATEL
Environment	**Receiver:** Ambient operating temperature: 32 °F to 140 °F (0 °C to 60 °C), 0% to 90% humidity, non-condensing. Indoor use only. **Transmitter:** Ambient operating temperature: -40 °F to 235 °F (-40 °C to 113 °C), 0%-90% humidity, non-condensing. Meets the Society of Automotive Engineers (SAE) temperature standards.
Communications	Visor Controls communicate with the system through Radio Frequency (RF). The Receiver must be located within 30 ft (9 m) of a Repeater. The typical operating distance between a Receiver and a Transmitter is 150 ft (46 m). System devices operate on frequencies between 431.0 MHz and 437.0 MHz.
ESD Protection	Tested to withstand electrostatic discharge without damage or memory loss, in accordance with IEC 61000-4-2.
Surge Protection	Tested to withstand surge voltages without damage or loss of operation, in accordance with IEEE C62.41-1991 Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits.
Mounting	Mount Receiver on a wall, ceiling, or level surface using the two #6 (M3) screws provided. Clip Transmitter to a vehicle's visor.
Connections	2 Contact Closure Inputs, 1 security input, and 4 momentary or maintained Contact Closure Outputs.
Warranty	1 Year Limited Warranty. http://www.lutron.com/resiinfo

⚠WARNING – Entrapment Hazard – May result in serious injury or death. These controls should only be used to control equipment which is visible from every control location.

⚠WARNING – Fire Hazard – May result in serious injury or death. Only use these controls to operate approved load and equipment types.

IMPORTANT NOTE:

Examples of such equipment which must not be operated by these controls include (but are not limited to) motorized gates, garage doors, industrial doors, microwave ovens, heating pads, fireplaces, space heaters, etc. It is the installer's responsibility to ensure that the equipment being controlled is visible from every control location and that only suitable equipment is connected to these controls. Failure to do so could result in serious injury or death.

RadioRA 2 Visor Controls

Design Features

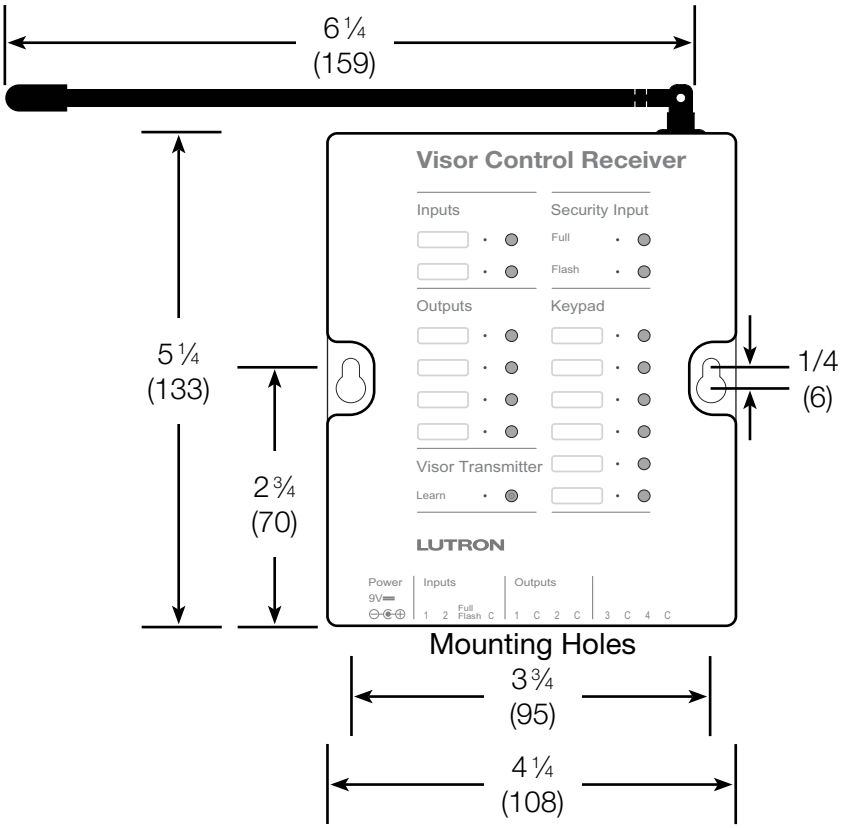
- Each output can be controlled locally at the Receiver or remotely by a Transmitter or keypad button.
- The Receiver '**Keypad**' or '**Inputs**' buttons can be programmed to light and shades / draperies.
- **Full** or **Flash** security options.
- The Transmitter can remotely control the '**Keypad**', '**Security Input**', and '**Outputs**' buttons on the Receiver.

RadioRA 2 Visor Controls

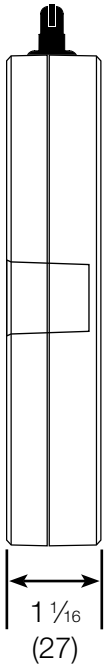
Dimensions

All dimensions are shown as in (mm)

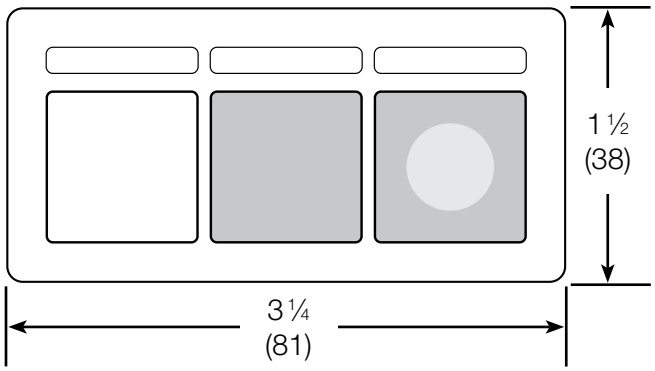
Receiver (Front)



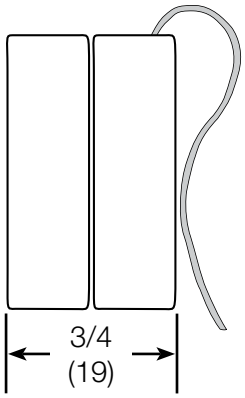
Receiver (Side)



Transmitter (Front)



Transmitter (Side)

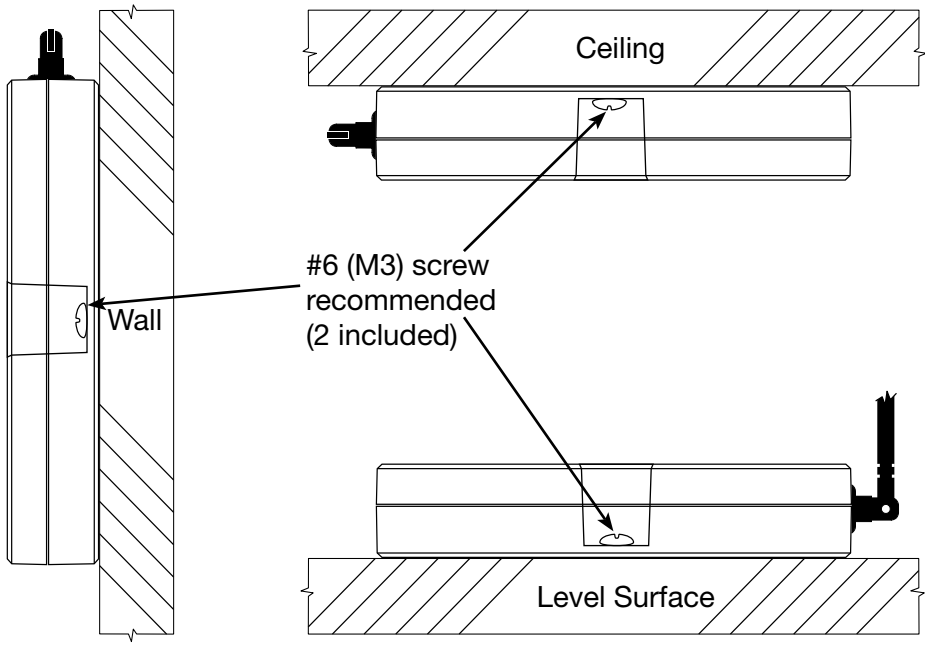


RadioRA 2 Visor Controls

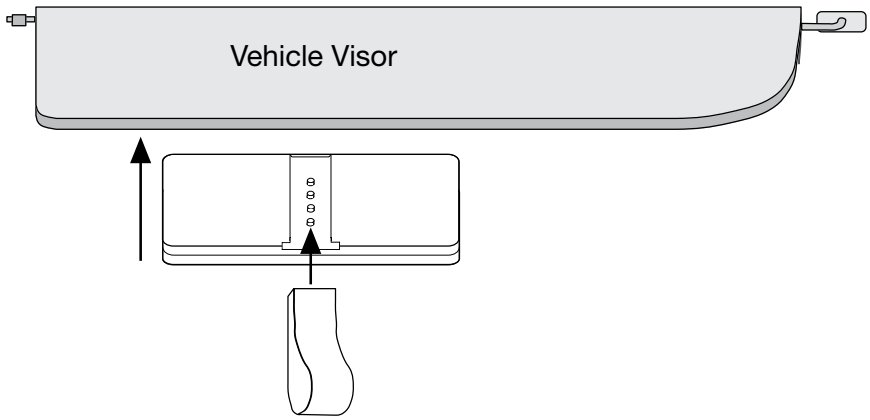
Mounting

Receiver

Vertical **Horizontal**



Transmitter



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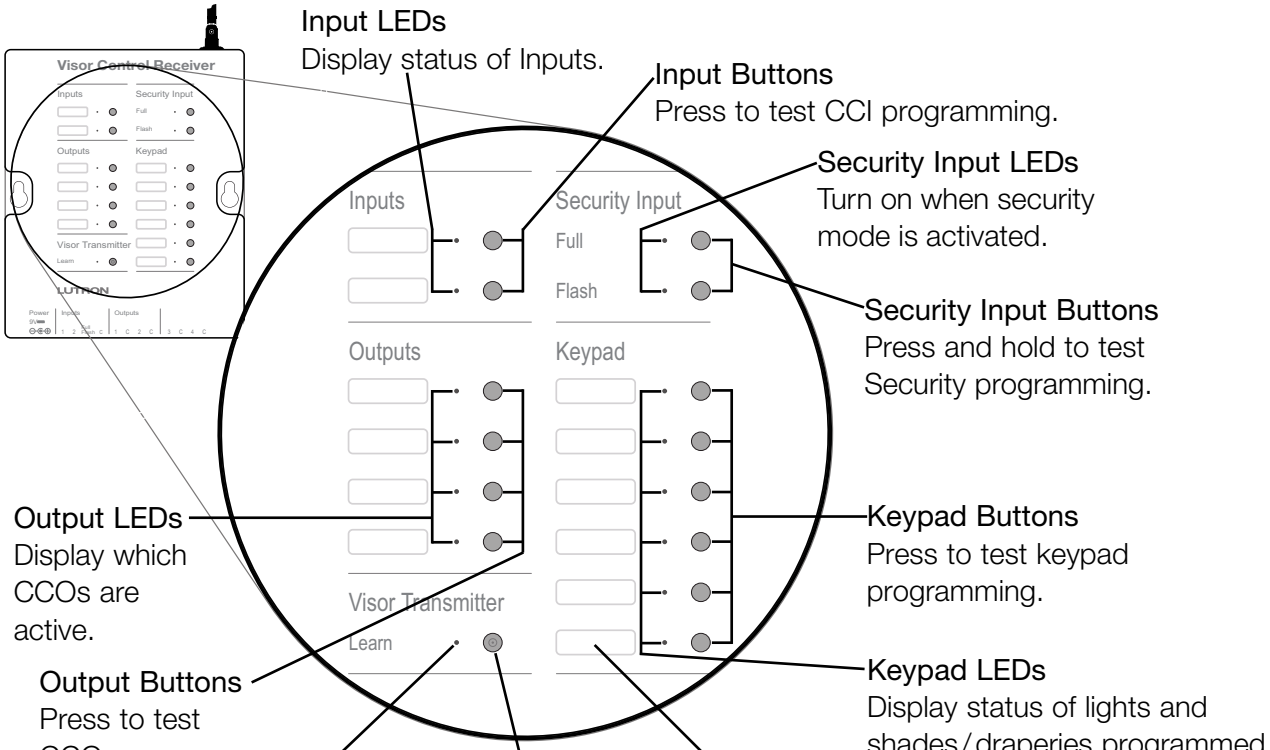
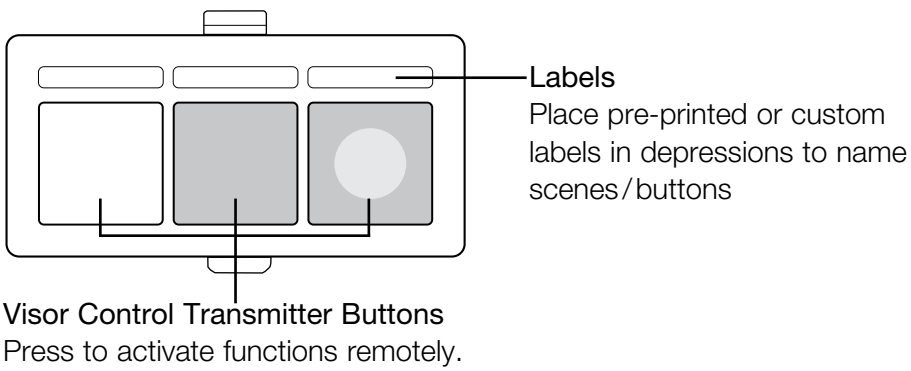
Operation

Receiver



Transmitter

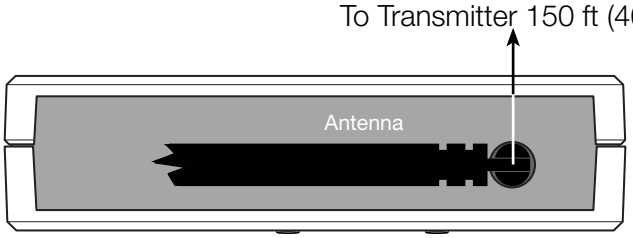


RadioRA 2 Visor Controls

Connections

Receiver (Top)

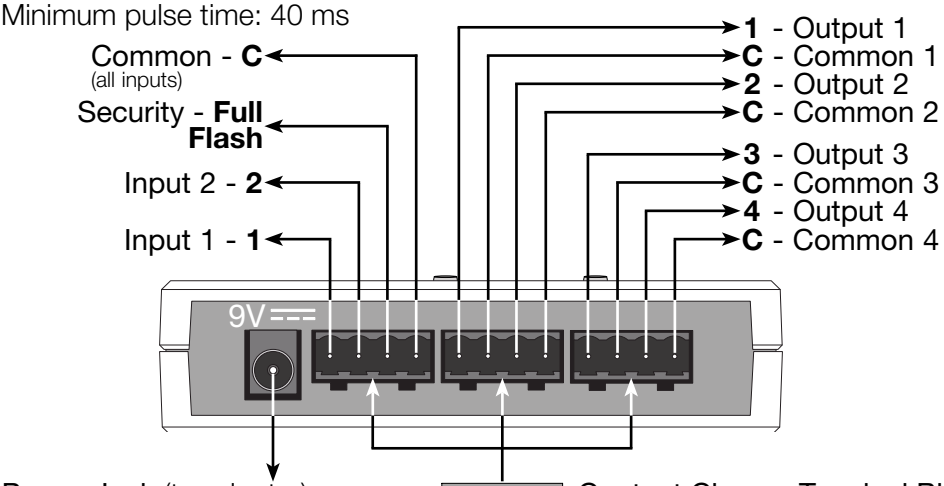
RF range:
To repeater 30 ft (9 m)
To Transmitter 150 ft (46 m)



Receiver (Bottom)

Contact Closure Inputs (CCI)
Dry contacts only.
ON saturation: <1 V⎓ at 2 mA
OFF leakage: <1 µA at 9 V⎓
Minimum pulse time: 40 ms

Contact Closure Outputs (CCO)
Max Voltage / Current: See **Relay Contact Ratings** below.
IEC PELV / NEC® Class 2
Minimum close time: 500 ms



Power Jack (to adapter)
IEC PELV / NEC® Class 2
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Contact Closure Terminal Blocks
Use IEC PELV / NEC® Class 2 cable
Maximum 1000 ft (305 m)
Each terminal holds up to one 16 AWG (1.0 mm^2) or two 18 AWG (0.75 mm^2) or smaller wire.

Relay Contact Ratings

Voltage	Resistive Load	Inductive Load
Up to 30 V⎓	1 A	0.2 A
Up to 30 V~	1 A	0.1 A
Up to 60 V⎓	0.5 A	Do not use.

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Wiring Diagram