HomeWorks QS Visor Controls

The HomeWorks QS Visor Controls allow lights, shades/draperys, 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.

Model Numbers

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HQR-VCRX-WH*</td>
<td>Visor Control Receiver</td>
</tr>
<tr>
<td>LR-3B-H-SW**</td>
<td>Visor Control Transmitter</td>
</tr>
</tbody>
</table>

*Only available in White (WH).
**Only available in Snow (SW).

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Specifications

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>HQR-VCRX-WH, LR-3B-H-SW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td></td>
</tr>
<tr>
<td>Receiver: 9 V== 300 mA</td>
<td></td>
</tr>
<tr>
<td>DC adapter:</td>
<td></td>
</tr>
<tr>
<td>Input: 120 V~ 60 Hz 6.5 W</td>
<td></td>
</tr>
<tr>
<td>Output: 9 V== 300 mA</td>
<td></td>
</tr>
<tr>
<td>Transmitter: 6 V== 10 mA (2 - CR2032, included – 10 year lifetime)</td>
<td></td>
</tr>
<tr>
<td>Typical Power Consumption</td>
<td>1.6 W</td>
</tr>
<tr>
<td>Test conditions: two LEDs on (two presets active), powered by the 9 V== adapter supplied, no CCOs or CCIIs active.</td>
<td></td>
</tr>
<tr>
<td>Regulatory Approvals</td>
<td>DC adapter: UL Listed for U.S. and Canada, NOM</td>
</tr>
<tr>
<td>Receiver/Transmitter:</td>
<td>FCC, IC, COFETEL</td>
</tr>
<tr>
<td>Environment</td>
<td></td>
</tr>
<tr>
<td>Receiver:</td>
<td>Ambient operating temperature: 32 °F to 140 °F (0 °C to 60 °C), 0% to 90% humidity, non-condensing. Indoor use only.</td>
</tr>
<tr>
<td>Transmitter:</td>
<td>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.</td>
</tr>
<tr>
<td>Communications</td>
<td>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 Transmitter and a Receiver is 150 ft (46 m).</td>
</tr>
<tr>
<td>ESD Protection</td>
<td>Tested to withstand electrostatic discharge without damage or memory loss, in accordance with IEC 61000-4-2.</td>
</tr>
<tr>
<td>Surge Protection</td>
<td>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.</td>
</tr>
<tr>
<td>Mounting</td>
<td>Mount Receiver on a wall, ceiling, or level surface using the two #6 (M3) screws provided. Clip Transmitter to a vehicle’s visor.</td>
</tr>
<tr>
<td>Connections</td>
<td>2 Contact Closure Inputs, 1 security input, and 4 momentary or maintained Contact Closure Outputs.</td>
</tr>
</tbody>
</table>

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 lights and shades/draperies.
- The Transmitter can remotely control the ‘Keypad’, ‘Security Input’, and ‘Outputs’ buttons on the Receiver.
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Dimensions

All dimensions are shown as in (mm)

Receiver (Front)

6 ¼ (159)

5 ¼ (133)

2 ¾ (70)

Mounting Holes

3 ¾ (95)

4 ¼ (108)

Transmitter (Front)

3 ¾ (81)

1 ½ (38)

Receiver (Side)

1 ¾ (19)

Transmitter (Side)

3/4 (19)

Visor Control Receiver

Inputs

Outputs

Security

Keypad

Visor Transmitter

Learn

Power

9V

Inputs

C 1

C 2

C

Outputs

3

C

4

C
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Mounting

Receiver

Vertical

Horizontal

Ceiling

#6 (M3) screw recommended (2 included)

Level Surface

Transmitter

Vehicle Visor
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Operation

Receiver

Input LEDs
Display status of Inputs.

Input Buttons
Press to test CCI programming.

No Operation

Output LEDs
Display which CCOs are active.

Output Buttons
Press to test CCOs.

Learn LED
Turns on solid to indicate that the Receiver is in Learn mode.

Learn Button
Press and hold for 3 seconds to enter Learn mode.

Labels
Place pre-printed or blank labels in depressions to name scenes/buttons.

Transmitter

Visor Control Transmitter Buttons
Press to activate functions remotely.

Labels
Place pre-printed or blank labels in depressions to name scenes/buttons.
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Connections

Receiver (Top)
RF range:
From repeater 30 ft (9 m)
From 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
Common - C
(all inputs)
Security - 3
Input 2 - 2
Input 1 - 1

Contact Closure Outputs (CCO)
Max Voltage / Current: See Relay Contact Ratings below.
Listed Class 2 / Certified PELV
Minimum close time: 500 ms
1 - Output 1
C - Common 1
2 - Output 2
C - Common 2
3 - Output 3
C - Common 3
4 - Output 4
C - Common 4

Power Jack (to adapter)
Model: T120-9DC-3-BL
(NEC® Class 2 / IEC PELV)

Contact Closure Terminal Blocks
Use NEC® Class 2 / PELV cable
Maximum 1000 ft (305 m)
Each terminal holds up to one 16 AWG (1.0 mm²)
or two 18 AWG (0.75 mm²) or smaller wire.

Relay Contact Ratings

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Resistive Load</th>
<th>Inductive Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 30 VDC</td>
<td>1 A</td>
<td>0.2 A</td>
</tr>
<tr>
<td>Up to 30 VAC</td>
<td>1 A</td>
<td>0.1 A</td>
</tr>
<tr>
<td>Up to 60 VDC</td>
<td>0.5 A</td>
<td>Do not use.</td>
</tr>
</tbody>
</table>
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Wiring Diagram

- Dry Contact Closure Input (e.g. motion sensor)
- Security System
- Output 1
- Output Device (e.g. garage door)
- Common
- Common 1
- Input 2
- Security 3
- Common