Section 1 - Overview

The LVC-IV module contains a 3-screw terminal block for a low-voltage wall switch, an IR receiver jack, a built-in RF receiver, two-RJ25 ports for RS232 / RS485, a low-voltage relay port with cable and a user-serviceable 3.5 Amp fuse.

Compatible components for each are listed below.

Uses

- IR (Infrared) Remote Control
- RJ25 Ports for RS-232/RS-485 Communication
- Low-Voltage Wall Switch
- “Dry” Contact Closure
- RF (Radio Frequency) Remote Control
- 3rd Party Control

Control systems employing “dry” contacts or Serial Communication.

The 230V LVC-IV also used as a Single-Pole, Double-Throw dry closure to control equipment by the same means listed above.

### COMPATIBLE COMPONENTS

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>IRT / R</th>
<th>Infrared Remote Control (Connects to IR Port)</th>
</tr>
</thead>
<tbody>
<tr>
<td>121228</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WRT / R</td>
<td></td>
<td>Low-Voltage Wall Switch.</td>
</tr>
<tr>
<td>121225</td>
<td>LVC-S</td>
<td></td>
</tr>
<tr>
<td>121226</td>
<td></td>
<td>Low-Voltage Wall Switch w/ Locking Cover</td>
</tr>
<tr>
<td>121232</td>
<td>KS-1</td>
<td>Power Supply Key Switch.</td>
</tr>
<tr>
<td>121017</td>
<td>SP-KSM</td>
<td>3-position Momentary Key Switch</td>
</tr>
<tr>
<td>121022</td>
<td></td>
<td>(Please Note: ‘Stop’ won’t work)</td>
</tr>
<tr>
<td></td>
<td>Auxillary Control</td>
<td>Control systems employing “dry” contacts or Serial Communication.</td>
</tr>
</tbody>
</table>
**Section 2 - Programming Radio Frequency (RF) Remote Control**

The LVC-IV comes with built-in Radio Frequency Remote control capability *(optional handheld transmitter NOT included).*

**To "Learn" a remote**

1. Press receiver button on LVC-IV *(see Fig. 2A).*
2. Signal light will flash slowly.
3. Press ▲ (UP) on transmitter within 10 seconds *(see Fig. 2B).*
4. Signal light flashes three times quickly.

**To "Un-Learn" a remote**

1. Press receiver button on LVC-IV *(see Fig. 2A).*
2. Signal light will flash slowly.
3. Press ▼ (DOWN) on transmitter within 10 seconds *(see Fig. 2C).*
4. Signal light flashes three times quickly.

**To "Un-Learn" all remotes**

1. Press receiver button on LVC-IV until signal light flashes quickly, then release.
2. Press receiver button once while signal light is flashing.
3. Signal light will stop flashing.

**PLEASE NOTE:**

1. RF receiver MUST NOT TOUCH METAL OBJECTS!
   Maximum Distance of Transmitter will be affected negatively.
2. Disconnect the power supply before installing the RF receiver.
3. Avoid electrostatic interference:
   Static electricity will damage the electronic components.
4. Ensure there is > 5’ (1.52M) between RF receiver and ground.
5. Ensure there is > 1’ (30.5cm) between RF receiver and ceiling.
6. Ensure there is > 1’ (30.5cm) between RF receiver and transmitter.
7. Multiple receivers must be spaced > 8” (20cm) apart.

**Section 3 - Infrared (IR) Remote Control**

1. Plug Optional IR Eye into mini plug input provided on LVC-IV *(see Figs. 1 and 3).*
2. IR Remote Control transmitter does not need to be "learned" by the LVC-IV. Simply point and operate.
3. Maximum IR Eye cable length is 42” (1 meter).

**Please Note:** IR Transmitter Range is 26ft. (7.9 meters).
Section 4 - **DC Low-voltage Trigger**

The LVC-IV comes with built-in connection for sending a DC trigger (4-28 VDC) from the projector to the projection screen.

1. Connect remote trigger voltage from projector to the low-voltage trigger cable.
2. Plug the mini-jack plug of the low-voltage trigger cable to the LVC-IV (Figure 4).
3. When projector is 'ON' the low-voltage output of the projector will cause LVC-IV to deploy projection screen. When projector 'OFF' the low-voltage is removed from LVC-IV and projection screen will retract into case.

---

Section 5 - **RS232 / RS485 Information**

RS232 / RS485 CommPort Parameters:
1. Frequency (BAUD Rate): 2400
2. Data long code : 8
3. Parity Check : N
4. Start bit : 1
5. Stop bit : 1
6. Flow Control : NONE

<table>
<thead>
<tr>
<th>COMMAND</th>
<th>COMMAND STRINGS</th>
<th>REMARK</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP</td>
<td>9A 01 01 00 0A DD D7</td>
<td>ID No. : 1 / Channel : 01</td>
</tr>
<tr>
<td>STOP</td>
<td>9A 01 01 00 0A CC C6</td>
<td>ID No. : 1 / Channel : 01</td>
</tr>
<tr>
<td>DOWN</td>
<td>9A 01 01 00 0A EE E4</td>
<td>ID No. : 1 / Channel : 01</td>
</tr>
</tbody>
</table>

For more detailed programming instructions or group control go to: [http://www.draperinc.com/DraperPro](http://www.draperinc.com/DraperPro) (registration required)
For AC supply wires:
Attach appropriate ½" (13mm) Trade Size connector to route wiring through knockouts.

Wiring LVC-IV to Screen Motor

- GREEN/YELLOW (Ground)
- RED - to screen (Directional)
- BROWN - to screen (Directional)
- WHITE - Common to screen & AC Neutral
- YELLOW - to AC-Hot (from LVC-IV MOTOR LEAD bundle)
- BLACK - to AC-Hot (from LVC-IV AC POWER bundle)

EXTERNAL LVC-IV ENCLOSURE DIMENSIONS

- 114 mm
- 56.2 mm
- 254 mm

WALL SWITCH
AC POWER INPUT

WARNING
DRY CONTACT CLOSURE ONLY. APPLYING VOLTAGE HERE WILL DAMAGE CONTROLLER.