LED pool light Remote Control

OWNER’S MANUAL

PL-REM

Long range DuraLink™ version

Spectravision™ lighting

Controls Spectravision Pool Lights and 2 auxiliary circuits
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### Technical specifications

#### Electrical specifications

<table>
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<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Nominal Input voltage</td>
<td>230 VAC 50 Hz</td>
</tr>
<tr>
<td>Max rating Relay Contacts</td>
<td></td>
</tr>
<tr>
<td>“Color&amp;Light”, “A” and “B”</td>
<td></td>
</tr>
<tr>
<td>Resistive Load</td>
<td>14A 250VAC</td>
</tr>
<tr>
<td></td>
<td>14A 30VDC</td>
</tr>
<tr>
<td>Inductive Load</td>
<td>6A 250VAC</td>
</tr>
<tr>
<td></td>
<td>6A 30VDC</td>
</tr>
<tr>
<td>Frequency band transmitter</td>
<td>868 MHz</td>
</tr>
<tr>
<td>IEC Protection Class</td>
<td>Class II [ ]</td>
</tr>
</tbody>
</table>

#### General specifications Controller

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient air temperature</td>
<td>0°C ... +40°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>10% ... 90% RH</td>
</tr>
<tr>
<td></td>
<td>non condensing</td>
</tr>
<tr>
<td>Dimensions</td>
<td>150x157x51 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>500 g</td>
</tr>
<tr>
<td>Ingress protection rate</td>
<td>IP54</td>
</tr>
</tbody>
</table>

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For operation only with 12VAC safety isolation transformer to power Spectravision® LED Pool Lights
Box contents

1. PL-REM controller
2. Handheld transmitter (DuraLink™ version)
3. Spare battery (type A23 12V)
4. Screws (4x) & wall plugs (4x)
5. Owners’s manual
Installation instructions

Option 1: PL-REM in transformer primary

- Connect a 230VAC power source to the “220-240VAC INPUT” terminal
- Connect the primary circuit of a 12VAC transformer (sold separately) in series with the “Color&Light” terminal of the PL-REM.

Optional: The “Switch A” & “switch B” terminals can be used to control auxiliary circuits like a pool cover or garden lights.

⚠️ The “Color&Light” relay contact has an output of 14A, which can drive a 12V transformer of max. 3000W (220Vx14A).
Option 2: PL-REM in transformer secondary

- Connect a 230VAC power source to the “220-240VAC INPUT” terminal
- Connect the secondary circuit of a 12VAC transformer (sold separately) in series with the “Color&Light” terminal of the PL-REM.

Optional: The “Switch A” & “switch B” terminals can be used to control auxiliary circuits like a pool cover or garden lights.

⚠️ The “Color&Light” relay contact has an output of 14A, or 170W on a 12V transformer secondary (14Ax12V). The total load of pool lights can not exceed this.
Pairing handheld transmitter & controller

The handheld transmitter is already paired in the factory and ready to use. The PL-REM can pair with up to 6 handheld transmitters. In case a problem arises, the pairing process can be done manually:

*Manual Pairing process:*

Make sure the PL-REM is connected to a power source.
1. Press the pairing button on the small circuit board, inside the controller for at least 5 seconds.
   --> The LED will start to blink fast

2. Within 25 seconds, press any button on the handheld transmitter.
   --> If the transmitter is paired correctly, the LED will flash slowly for 5 times
   --> If the PL-REM pairing memory is full, the LED will flash 15 times. This means 6 handheld devices have already been paired.

To unpair all handheld transmitters with the controller: Push the pairing button for at least 5 seconds, then do nothing for at least 25 seconds.

   --> The pair memory will be erased - the red LED will flash 5x on/off.
Handheld transmitter functions

- Toggle the lamps ON/OFF
- Go to next color scenario
- Toggle Output A ON/OFF
- Toggle Output B ON/OFF

Replacing transmitter battery

- Remove the philips head screw and open the transmitter
- Replace the battery, respecting the polarity

Battery type: A23 12V
# Troubleshooting

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>SOLUTION</th>
</tr>
</thead>
</table>
| The controller doesn’t react to transmitter commands | • Check the battery of the handheld transmitter  
• The transmitter is not paired-correctly with the controller. Repeat the pairing process  
• Reduce the distance between handheld transmitter and PL-REM and/or remove obstacles |
| The pool lights don’t work | • Check if all connections are made according to the electrical scheme on page 5 or 6.  
• Check if the “Color&Light” output terminals of the controller switch on and of when pushing the on/off button on the transmitter. |
We, Propulsion Systems bvba, declare under our sole responsibility, that the equipment described below conforms with the essential requirements of the following directives and standards:

**DIRECTIVE 2011/65/EC** (RoHs 2)
- EN50581

**DIRECTIVE 1999/5/EC** Radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity
- EN 300 220 Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW

**DIRECTIVE 2004/108/EC** Electromagnetic compatibility
- EN 300 683 (Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for Short Range Devices (SRD) operating on frequencies between 9 kHz and 25 GHz)
- EN 301 489-3 (Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz)

**Equipment:** handheld transmitter/receiver for remote control & base unit transmitter / receiver 868MHz band DuraLink™

**Trade Mark:** SpectraVision™

**Model Nr.:**
- PLA-REM (COMMUNICATIONS & REMOTE CONTROL BOX FOR ADAGIO+ RGB DuraLink™)
- PLA-REM-300 (350VA PSU & COMMS BOX FOR ADAGIO+ RGB DuraLink™)
- PL-REM (REMOTE CONTROL FOR MOONLIGHT & ADAGIO+ DuraLink™)
- PL-REM-P (REMOTE CONTROL FOR MOONLIGHT & ADAGIO+ (PULSED) DuraLink™)
- PL-REM-200 (200VA PSU & REMOTE CONTROL FOR MOONLIGHT & ADAGIO+ DuraLink™)
- TX868-PLA (TRANSMITTER ; DuraLink™ 868MHz ; for PLA-REM(-300))
- TX868-PL (TRANSMITTER ; DuraLink™ 868MHz ; for PL-REM(-60/200))

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