# ECO Spot™ Control Module – User Manual

## Description

The ECO Spot Control Module is an optional module that is designed to add dynamic functionality, such as dimming, blinking, fading, and motion sensing to ECO Spot gobo projectors. The integrated motion sensor (PIR Sensor) can be configured in a wide range of modes.

The module connects to line power and to the projectors' LED driver control inputs.

**Functionality:**

- **Static mode:** ON, DIM, OFF
- **Dynamic modes:** Fading, Strobing, Flashing
- **Sensor modes:** The motion sensor and AUX input can be programmed to switch from any static or dynamic mode to any other static or dynamic mode.

For a full list of functions, please see the Function Table.

**Supported Projectors:**

All ECO Spot projectors with drivers, that have an accessible DIM+/- input, such as:

- ECO Spot PCE-Series 40/60/90/150/300PCE
- ECO Spot Exterior 25E/40E/60E/90E/300E
- ECO Spot Interior 90/150/300

**Connections:**

**Power:** The included power supply connects to AC power.

**Control Connector:** The module controls the LED drivers' 0-10V input; it connects via pre-installed connectors.

**AUX Connector:**

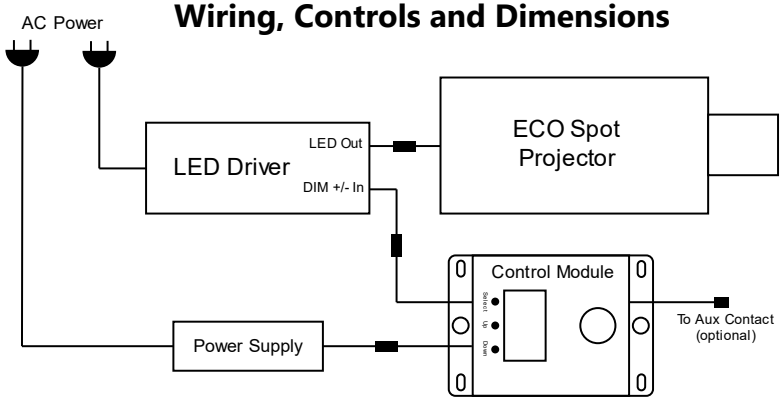
Besides the Integrated PIR motion sensor, the module has an input for an external contact. This allows utilizing external motion sensors or switches for triggering the same functions as the PIR sensor.

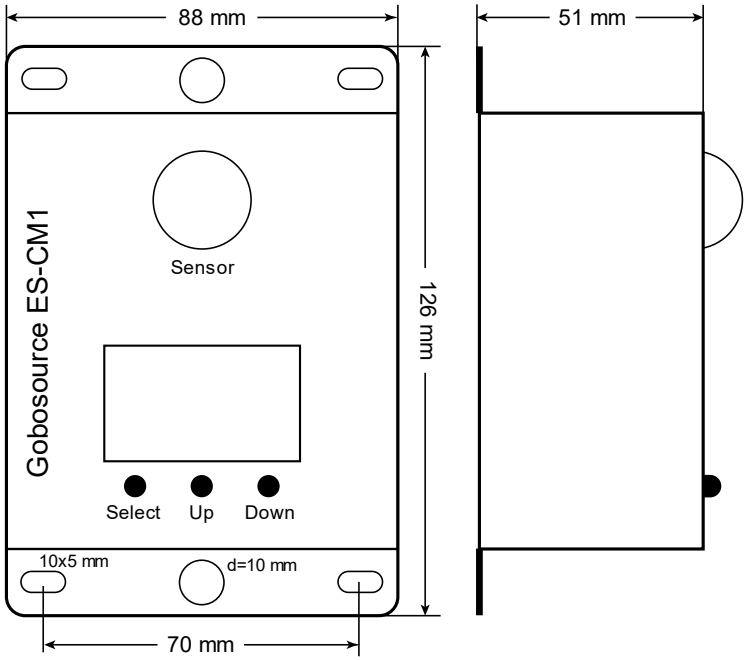
## Function Table

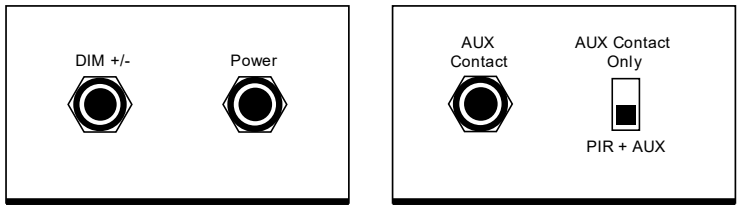
The table shows the functions that can be configured from the control panel.
When done, move the cursor to a position that determines the operation mode as shown in the 1st column).

<table>
<tr><th>Cursor Position</th><th>Mode</th><th>Display/ Range</th><th colspan="3">Function</th></tr>
<tr><td rowspan="2">Cursor Positions for Preset Mode Only</td><td>Preset Mode<br>Set the dynamic default function</td><td>PRO<br>01–03</td><td colspan="3">01: Fade IN/OUT<br>02: Strobe<br>03: Blink</td></tr>
<tr><td>Mode Speed<br>Set the speed of the dynamic default function</td><td>SPD<br>01–10</td><td colspan="3">01: slowest speed<br>10: fastest speed</td></tr>
<tr><td rowspan="14">Cursor Positions for PIR/AUX Contact Modes Only</td><td rowspan="12">Motion Sensor/AUX Operation Mode<br>Select the functionality when the sensor and AUX input are enabled</td><td rowspan="12">IRM<br>01–11</td><td colspan="3">Sensor/Contact Status</td></tr>
<tr><td>#</td><td>not triggered</td><td>triggered</td></tr>
<tr><td>01</td><td>OFF</td><td>ON</td></tr>
<tr><td>02</td><td>OFF</td><td>Preset Mode</td></tr>
<tr><td>03</td><td>OFF</td><td>FADE to ON</td></tr>
<tr><td>04</td><td>ON</td><td>OFF</td></tr>
<tr><td>05</td><td>ON</td><td>Preset Mode</td></tr>
<tr><td>06</td><td>ON</td><td>FADE to OFF</td></tr>
<tr><td>07</td><td>DIM</td><td>ON</td></tr>
<tr><td>08</td><td>DIM</td><td>Preset Mode</td></tr>
<tr><td>09</td><td>DIM</td><td>OFF</td></tr>
<tr><td>10</td><td>Preset Mode</td><td>ON</td></tr>
<tr><td>11</td><td>Preset Mode</td><td>OFF</td></tr>
<tr><td>n/a</td><td>IRF<br>01–10</td><td colspan="3">n/a</td></tr>
<tr><td>Sensor/AUX ON Time</td><td>IRD<br>03–60</td><td colspan="3">Time, that the sensor stays triggered in seconds</td></tr>
<tr><td>Sensor/AUX ON/OFF</td><td>IR<br>ON/OFF</td><td colspan="3">Sensor/AUX Contact enable/disable</td></tr>
<tr><td>DIM Only</td><td>DIM Level<br>In static or dynamic mode</td><td>LUM<br>0–255</td><td colspan="3">0: OFF – 255: Brightest</td></tr>
<tr><td></td><td>Backlight ON Time</td><td>BLK<br>03–30</td><td colspan="3">Set the display backlight on-time between 3 and 30 seconds</td></tr>
</table>

# Wiring, Controls and Dimensions



## Functionality

**Control Panel Menu:**

- **Cycle** through the functions with the **UP** and **DOWN** buttons.
- **Select** a value with the **SELECT** button.
- Change the value with the **UP** or **DOWN** button. The value is applied immediately.
- Press **SELECT** again to go back.

**Setting the Operation Mode:**

Once all parameters are set, move the cursor to a position that determines the operation mode, as shown in the 1st column of the Function Table.

**Selecting Sensor Modes:**

- **No Sensor or AUX input:** from the M**enu**, **set "IR" to "OFF"**
- **PIR Sensor + AUX input:** from the M**enu**, **set "IR" to "ON"**
- **PIR Sensor only:** same as above, just **don't use AUX inputs**
- **AUX input only:** set the **Selector Switch** to **"AUX Contact Only"**

If the PIR sensor or AUX contact is triggered, the module enters the status selected in **"Sensor/Contact Status - triggered"** in the Function Table. Once the contact is opened, the module will keep the status for the time specified in **"Sensor ON Time"** and then fall back to the **"Sensor/Contact Status - untriggered"** status.

## Specifications

**Input Voltage:** Power supply: 100-240V, 277V, 47-63Hz, 1W
DC in: 12V

**AUX Input:** For connecting a **potential free** contact or switch.
Do not apply any voltage to the AUX input pins.

**Motion Sensor**

- **Type:** Passive infrared (PIR) sensor
- **Range:** Approx. 20ft