



# Gen2 Infinity© Single ELI 120VAC Motorized Lift and Shade Controller Installation Guide

**Supported Model: PSS-G2-ELI-AC1**

**Revision: 1.1**

## Specifications and Supported Features

This Wireless Shade Motor Controller operates as part of a Control4® Home Automation System to enable intelligent motorized window treatment control. This device installs near the shade motor head typically behind the drapery stack. It is connected to via 6 conductor flat cable with RJ12 modular connector. The device communicates with other devices through a wireless RF (radio frequency) ZigBee® Pro.

**Operating Temperature:** All Load ratings are based on an ambient temperature of 25 degrees Celsius or 77 degrees Fahrenheit.

**Volume:** Cubic inches

**Weight:** 2.4 Oz.

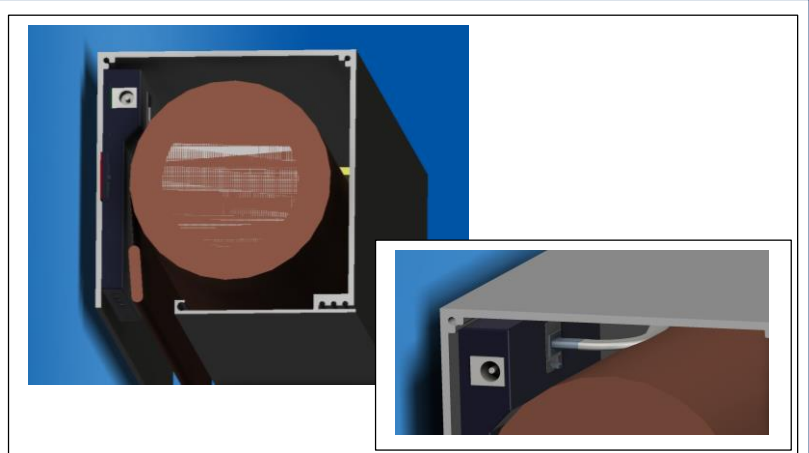
**Power Requirements:** 6 to 40VDC 160mA max.  
Device power is obtained through the modular cable from motor head.

**Communications:** ZigBee® PRO, IEEE 802.15.4 2.4GHz, 15 channel spread spectrum radio

## Warnings and Considerations

**IMPORTANT!** The range and performance of the wireless control system is highly dependent on the following: (1) distance between devices; (2) layout of home; (3) walls separating devices; and (4) electrical equipment located near devices.

**IMPORTANT!** Use or modification of this product in a manner not expressly approved by Performance Concepts voids your warranty. Further, Performance Concepts is NOT liable for any damage incurred with the misuse of this product. See "Limited 3 Year Warranty."



## INSTALLATION INSTRUCTIONS:

**Step 1:** Typical installation of IZMC as shown above.

**Step 2:** Connect RJ12 cable to IZMC shade controller as shown (above right).

**Step 3:** Install Shade motor as per Performance Shading Systems instructions.

**Step 4:** Confirm motor direction is correct by using the OPEN/CLOSE/STOP buttons on device. If incorrect, follow Performance Shading Systems instructions for reversing the motor direction.

**Step 5:** JOIN Shade Controller to Control4 system, operate shade from user interfaces.

### MOTOR SELECT SWITCH M1 or M2: Future Use for Dual Motor Support

**HBT (HEART BEAT) RED LED:**  
Device health status LED visible through pin hole:

OFF – Not POWERED  
2 second flash – Normal Disconnected  
1 second flash – Normal JOINED to Control4®  
.25 second flash – Searching for Joinable Control4® ZigBee Network  
.1 second flash – Motor Fault Detected. Check connections.

**HARDWARE RESET:** Device reboot button port hole. Using standard paper clip to access. PRESS and RELEASE will cause a hard reset of the device.  
NOTE: DEVICE WILL NOT LEAVE Control4® NETWORK

**SETUP BUTTON:** This button has multiple functions, depending on the button PRESS and HOLD time as follows:

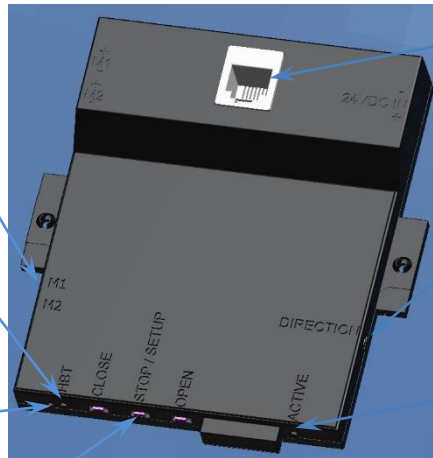
**NETWORK JOIN:** Press and Hold for 1 to 3 seconds, GREEN LED flashes, and then RELEASE. The device will attempt to find and JOIN Control4® network if an appropriate device driver IDENTIFY is open using Composer.

**CALIBRATE MOTOR:** Not required for ELI interface.

**NETWORK LEAVE:** Press and Hold 7 seconds to disconnect device from Control4® Network

**FACTORY DEFAULT:** Press and Hold 10 sec. GREEN LED will restart flashing at .75 seconds cycle.

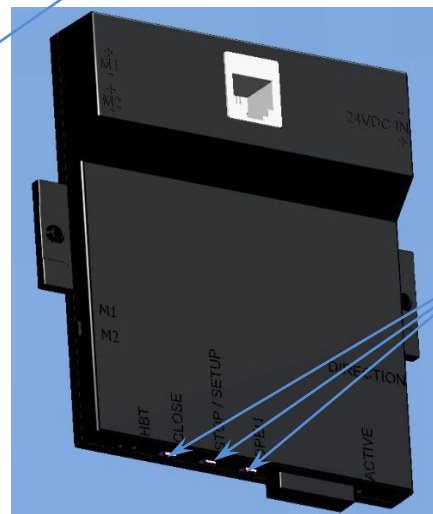
- See reverse side for more details.



**ELI MOTOR CONTROL PORT:**  
Connect 6 conductor silver flat cable with RJ12 connector from ELI motor to device.

**MOTOR DIRECTION SLIDE SWITCH:**  
**Future Use:** Used to correct motor direction commands based on installation configuration.

**ACTIVITY GREEN LED:**  
Device activity status LED visible through pin hole:  
OFF with intermittent Flash ON – Not JOINED, transmit ACTIVE.  
ON with intermittent Flash OFF – JOINED To Control4®, transmit ACTIVE.  
.75 second flash cycle – DISCONNECTED from Control4®  
200ms – RESET active



**CLOSE, STOP & OPEN BUTTONS:**  
**If Motor Is STOPPED:**  
Momentary Press and Release of OPEN or CLOSE  
Will MOVE shade in selected direction.

**If Motor Is RUNNING:**  
Momentary Press and Release of OPEN, CLOSE or STOP  
Will STOP shade movement.

## IZMC ZigBee® PRO ELI SHADE and LIFT MOTOR CONTROLLER – Operating Instructions

The IZMC controls a Performance Shading Systems, ZigBee® Home Automation (HA) Profile Standard SHADE, LIFT motor. It implements the Control4 BLINDS Proxy v2 and provides full two-way communications with feedback support.

The device has four buttons, Motor OPEN, CLOSE, device SETUP/STOP as well as slide switch DIR (future use), used for setup and configuration. In addition, a RESET Button is accessed via port hole located to the left of the HBT LED found on the left edge of the device.

**Note: The DIRECTION is for future use. Currently, prior to integration of the device, the shade motor must be programmed using the 433 MHz handheld remote control. The motor direction must be set using RF remote to match remote control buttons. To change Motor Direction, PRESS and HOLD STOP button for 7 seconds. The motor will “jog” indicating entry to program mode. Now PRESS and RELEASE the CLOSE or (DOWN arrow) to toggle motor direction. Refer to motor installation instructions for more information.**

After proper device installation by qualified electrician, we recommend that the installer first perform a Shade CALIBRATION routine. This routine allows the device to learn motor shade length. These attributes are used to control and provide feedback of shade position. After calibration is complete, the installer will JOIN the device to the Control4 ZigBee Pro Network. This will IDENTIFY and bind the driver to the specific shade device with in the Control4® environment.

**OPEN, STOP and CLOSE BUTTONS:** Use these buttons to control shade position.

- If Shade Motor Is STOPPED  
PRESS and RELEASE button to MOVE SHADE position in the desired direction.
- If Shade Motor is MOVING  
PRESS and RELEASE will STOP motor.

**STOP/SETUP BUTTON:** This button has multiple functions, depending on the PRESS and HOLD time.

The installer can initiate and control Network JOIN, LEAVE, Device CALIBRATE and Factory Default routines.

**JOIN NETWORK:** Identify the device to Control® device driver.

If Motor CALIBRATE Mode is ACTIVE:  
Finish the CALIBRATION routine or Press and Release the RESET button to exit.

If Motor CALIBRATE Mode is NOT ACTIVE:  
PRESS and HOLD the SETUP button for 1 second and then RELEASE starts the device network JOIN to Control4 process.  
The RED LED will have a rapid flash while the process is active. At this point the device will attempt to find a Control4 network for up to 4 times. If not JOINED, then GREEN LED will FLASH NORMAL (blink ON if communicating) and RED LED will flash slow (1000ms)  
If successful the GREEN LED will go solid ON and blinks OFF when data is being sent or received.  
And RED LED will flash NORMAL (700ms)

**NOTE:** After 3 to 5 seconds, an IDENTIFY message may be required one or two additional times, depending on network configuration.  
Press and Hold for 1 second then Release of the SETUP button will send IDENTIFY information to Control4® again.

**LEAVE NETWORK:** Initiates a network LEAVE as per ZigBee® PRO standards.

Press and Hold SETUP for 6 or more seconds GREEN LED will flash slow (500ms), and then Release:

**FACTORY DEFAULT:** Initiates device Factory Default as per ZigBee® PRO standard.

Press and Hold SETUP for 10 seconds GREEN LED will turn ON, then Release: