Wattstopper PLUS®

MechoShade Systems/Wattstopper PLUS
Integration Guide

10/2025

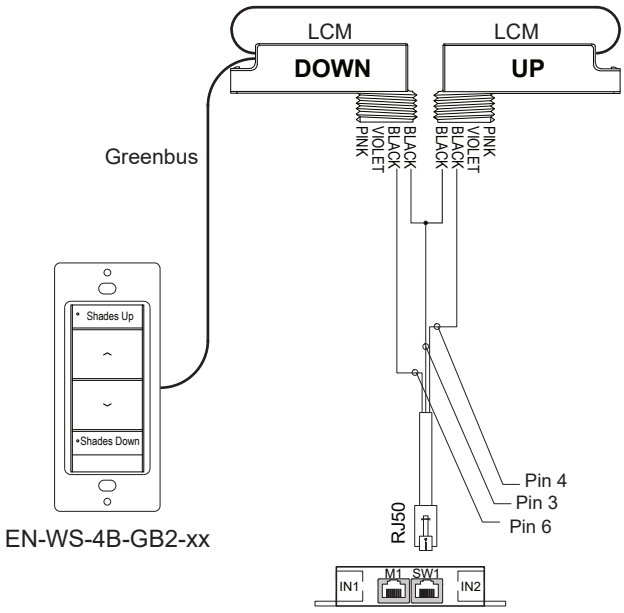
OVERVIEW

Wattstopper PLUS Lighting Control systems can easily and reliably control iQ2 AC and DC motors found in Mecho® shades through a simple dry contact connection. The recommended method to integrate Wattstopper PLUS with Mecho shades is to connect a Luminaire Control Module (LCM) to the “SW1” port on the Mecho iQ2+ Single Motor Splitter (for AC motors) or direct to the RJ45 connection for DC Motors (if control is coming from the DC panel).

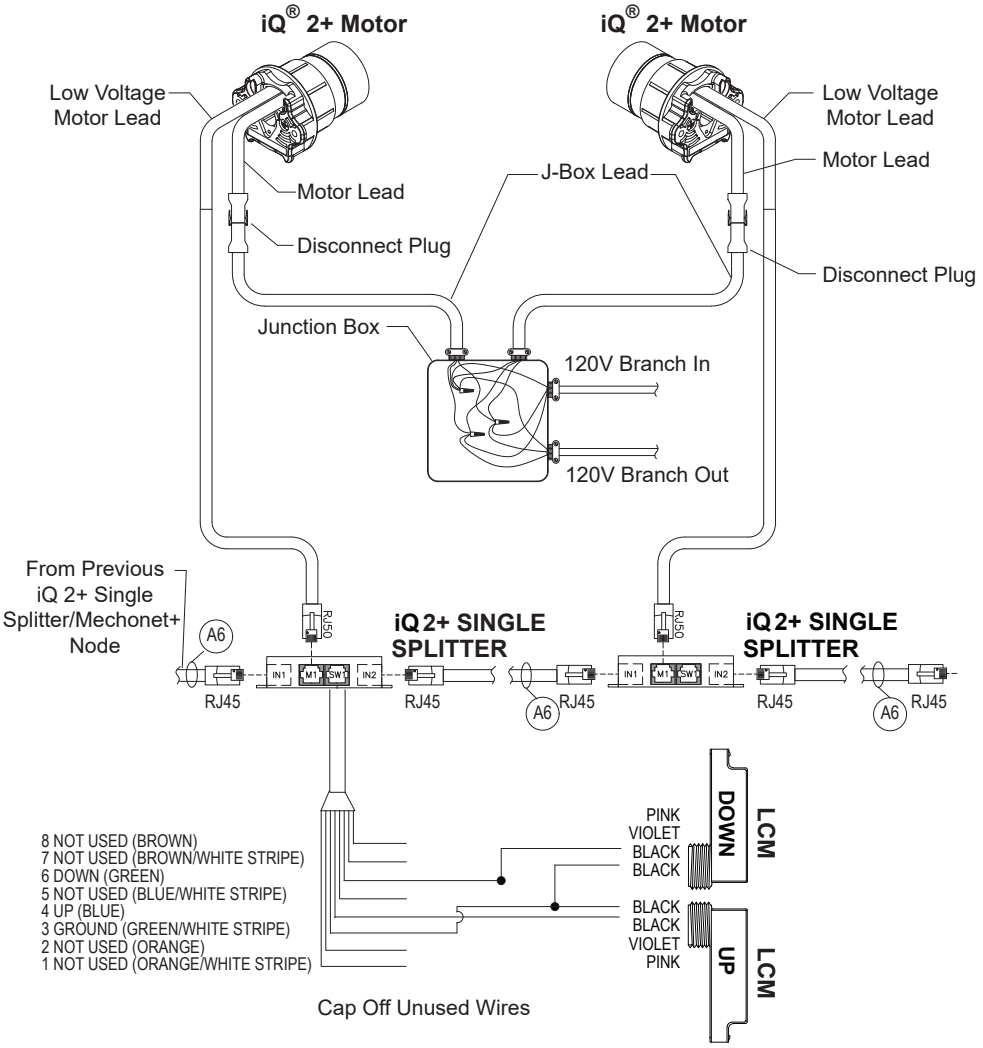
- iQ2 motors support direct integration via a contact closure, however this is not supported for Mecho shades with iQ3 motors.
- Mecho supports grouping so that all shades in a room will respond to a single contact closure.
- This integration is 1-way communication.
- The Wattstopper PLUS 2-Button and 4-Button GreenBus Wallstations (EN-WS-2B-GB2-xx, EN-WS-4B-GB2-xx) are the recommended switches for control.

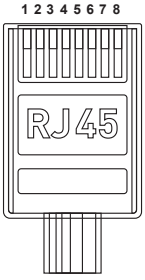
WIRING DIAGRAMS

Contact Closure Wiring Diagram: iQ® 2+ Single Motor Splitter with two LCMs

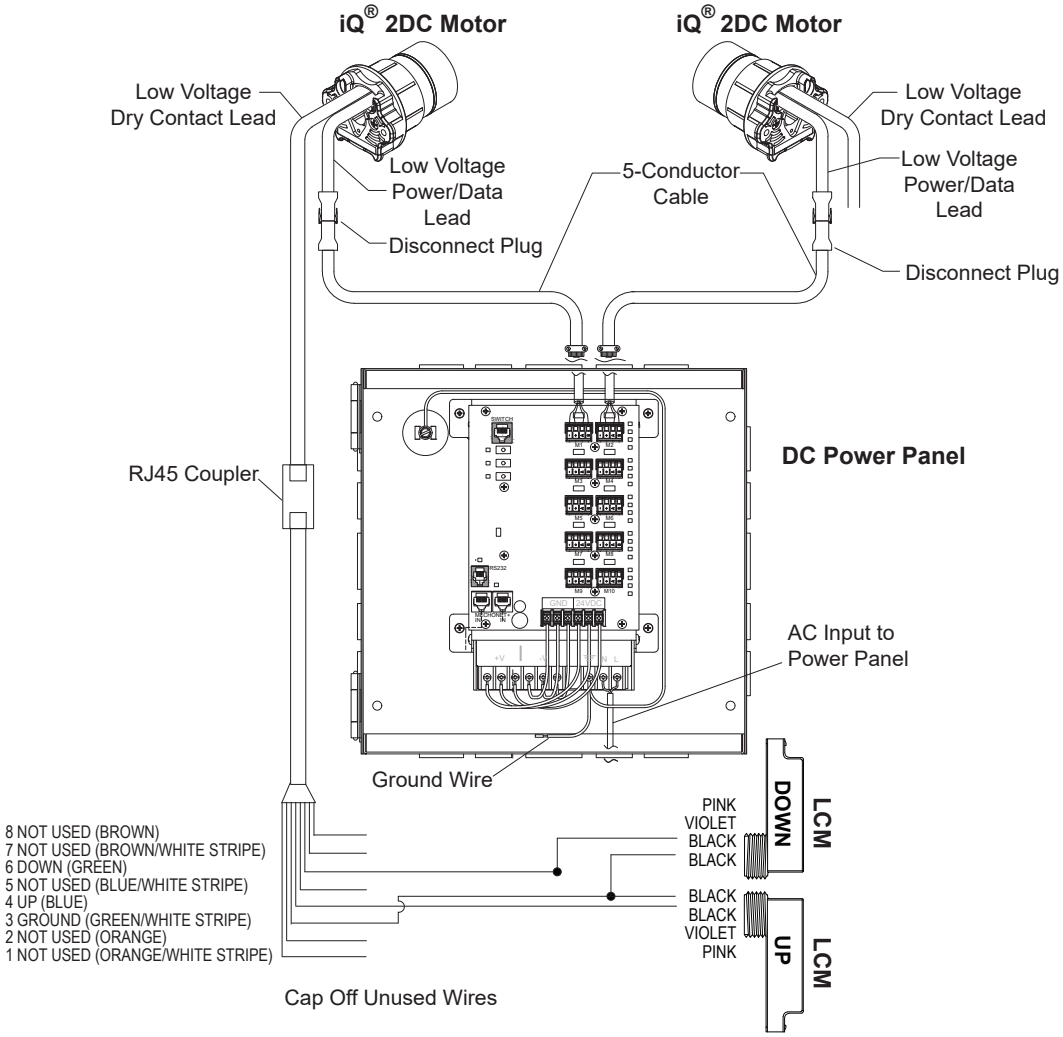


To iQ2+ SINGLE SPLITTER in an AC Shade System
OR
To RJ45 Coupler in a DC Shade System



EIA 568B Crimping Instructions – 8-Conductor Cables For SW1 Port Connections on iQ2+ Single Splitter			
Low Voltage Cable (CAT5/CAT5e/CAT6 Cable) 8-Position, 8-Contact, Modular Plug Assembly RJ45  Straight-Through Cable Termination 1 & 2 (Same)	**CATX Crimp**		
	Pin	**Color Code**	**Function**
	1	Orange/White Stripe	Not Used
	2	Orange Solid	Not Used
	3	Green/White Stripe	Ground
	4	Blue Solid	Up
	5	Blue/White Stripe	Not Used
	6	Green Solid	Down
	7	Brown/White Stripe	Not Used
	8	Brown Solid	Not Used

MechoShade DC System Integration with Wattstopper PLUS LCMs



BUTTON PERSONALITIES & PROGRAMMING REQUIREMENTS

Mecho shades have preset 'button personalities' that determine how the shades will respond to a contact closure. These button personalities are programmed into the iQ2 motors.

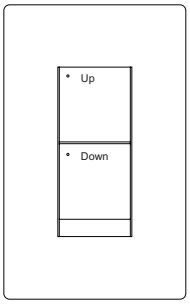
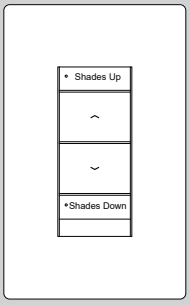
- The switch input on the motor can be programmed to a specific motor group.
- Motors can be assigned to multiple motor groups to support the desired control scheme in the space.
- Motors need to be programmed with one of the maintained button personalities (from the table below).
- Motors in a room need to be programmed to respond to the switch command.
- Motors can be programmed to multiple switch inputs.

Depending on the button personality chosen, different behaviors are expected. The table below lists two recommended button personalities, along with examples of the expected button behavior.

MECHO BUTTON PERSONALITY	DESCRIPTION	# OF BUTTONS REQUIRED PER SHADE/ GROUP	EXAMPLE OF EXPECTED BUTTON BEHAVIOR
2L or 3L	Up/Down - Tap	2	Tap Up Button, shade will go to the upper limit (open). Tap Down Button, shade will go to the lower limit (closed). If either button is tapped while the shade is moving, the shade will stop.
2M or 3M	Up/Down - Hold	2	Press and hold Up Button, shade will move up, release Up Button and shade will stop moving. Press and hold Down Button, shade will move down, release Down Button and shade will stop moving.

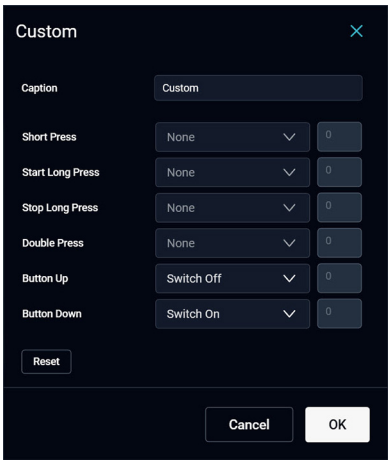
NOTE: Button personalities can be modified by Mecho technicians. Additional button personalities exist, however the button personalities listed above are recommended based on ease, popularity, and Wattstopper PLUS compatibility.

SWITCH EXAMPLES

Type	Description	Example
2-Button Switch	The Wattstopper PLUS 2-Button GreenBus Wallstation (EN-WS-2B-GB2-xx) can support any button personality. The top button will be designated for moving the shades up and the bottom button for moving the shades down. **NOTE:** Example shown uses custom labeling.	
4-Button Switch	The Wattstopper PLUS 4-Button GreenBus Wallstation (EN-WS-4B-GB2-xx) can support any button personality. The up arrow button will be designated for moving the shades up and the down arrow button for moving the shades down. The On and Off button can be designated for lighting control as on and off commands or on/dim up and off/dim down. **NOTE:** Example shown uses custom labeling	
Custom Layout/ Labeling	The Wattstopper PLUS Switches allow for custom labeling to achieve specific customer requirements. A single button should be designated to send the shades up and another button should be designated to send the shades down.	

MOTOR ADDRESS GROUPING

1. Each motor can belong to multiple address groups, allowing them to respond to various commands.
2. Each motor has a switch address, which is the address that switch commands (connected to the motor via the splitter) will be sent.
   - For a motor to respond to a switch command, one of its addresses should match the address of the switch command that is received from one of the motors.

POLARIS CONFIGURATION

1. Up contact and down contact on the Luminaire Control Module (LCM) need to be placed in independent zones. They should be the only item in those zones.
2. Load templates should be set for non-dimmable (contact opens as soon as button is released vs. dimming to off).
3. The associated switch needs to be programmed with the following “custom” behavior:
   - Button Up = Switch Off
   - Button Down = Switch On
4. The zone should be programmed with a manual-off timer of 1 minute (minimum timer) and no other inputs/ schedules should be associated to the zones. The manual off timer is needed to ensure the zones recover from startup.