# Cell2 12VDC Silverblade Lighthead END Linear User Manual



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## Cell2 12VDC Silverblade Lighthead END Linear


#### WIRING & FUNCTIONS

**(CE – Single / Dual / Tri Colour – ECE R65/R10)**
Proper installation of the product requires the installer to have a good understanding of automotive electronics, systems and procedures. Different applications may require different functions. For optimum efficiency, it is highly recommended to determine, configure and test the required functions prior to installation.

#### LIGHTBAR WIRING

**NOTE:** All function wires (Input) are activated by applying +VDC continuously.
[Px] = Order of Precedence. When more than one wire are activated at the same time, the wire with the higher precedence will override / affect the performance of the lower precedence wire. P1 being the highest order.
*Actual approval is based on the configuration of the model ordered.
**WARNING**

- DO NOT USE THE POWER WIRE(S) AS THE LIGHTBAR ACTIVATION SWITCH. USE ONLY THE FUNCTION WIRE(S) TO SWITCH AND ACTIVATE.
- ENSURE THE POWER WIRE(S) ARE PROPERLY CONNECTED BEFORE ACTIVATING ANY FUNCTION WIRE(S).
- FAULTY CONNECTIONS MAY CAUSE THE LIGHTBAR TO MALFUNCTION AND / OR RESET TO ITS DEFAULT SETTINGS.
- DO NOT USE A HIGH PRESSURE POWER WASHER TO CLEAN YOUR LIGHTBAR; THIS MAY DAMAGE YOUR LIGHTBAR AND VOID ITS WARRANTY.

## POWER CABLE

1. Route power cables to the vehicle firewall towards the battery, preferably using a factory pass-through.
   If drilling a hole is required, please ensure there are no factory components in the area to be drilled.
2. Splice 2 RED wires to form a single wire then install a fuse (user-supplied) to the end of the RED wire, before connecting it to the battery. (for correct fuse rating, refer to the Lightbar Specs.)
3. Splice 2 BLACK wires to form a single wire then connect the BLACK wire to the vehicle chassis-ground next to the battery.
   **NOTE:** Ensure that all wires of the power cable are firmly connected to the power source.

## CAN CABLE

1. Route CAN Cable towards the CAN Controller Module.
2. Connect 2 CAN signal and Shield wires to respective counterparts on the 6-pin connector harness of the CAN Controller Module. (Refer to CAN Controller Module Installation and Operation Manual)

## FUNCTION WIRES (Input)

Connect each individual function wire according to its function.

**ECE R65 WARNING MODE**

Activate ECE R65 Warning Mode by applying +VDC to GREEN-WHT wire.
All corner lightheads will display Double Flash [2Hz] simultaneously.

**WARNING MODE 1**

Activate Warning Mode 1 by applying +VDC to ORANGE-WHT wire. All warning lightheads will display Double Flash [2Hz] simultaneously.

**WARNING MODE 2**

Activate Warning Mode 2 by applying +VDC to YELLOW-WHT wire. All warning lightheads will display Double Flash [2Hz], left half alternating right half.

**CRUISE MODE**

Activate Cruise Mode by applying +VDC to RED-WHT wire. All warning lightheads will be activated in low power steady-burn.

**FULL FRONT FLOOD**

Activate Full Front Flood by applying +VDC to the YELLOW wire. All Front, Take-Down and Alley Lights will display in High Power steady-burn.

**Note:** If the lightbar is equipped with Dual or Tri Colour warning lighthead, Colour 2 or Colour 3 will be displayed respectively.

**TAKE-DOWN LIGHT**

Activate steady-burn Take-Down Light by applying +VDC to PURPLE wire.
When Take-Down Light is activate with Flashing Take-Down & Alley Light, Take-Down Light(s) will steady-burn while Alley Light(s) flash continuously.

**ALLEY LIGHT**

Activate steady-burn Alley Light by applying +VDC to

- GREEN wire for Left-Side Alley Light.
- BLUE wire for Right-Side Alley Light.

When Alley Light is activate with Flashing Take-Down & Alley Light, Alley Light(s) will steady-burn while Take-Down Light(s) flash continuously.

**FLASHING TAKE-DOWN LIGHT & ALLEY LIGHT**

Activate Flashing Take-Down & Alley Light (Left alternating Right) by applying +VDC to GREY wire.

**TRAFFIC ARROW**

Activate rear Traffic Arrow function by applying +VDC to:

- WHITE wire for Left Arrow.
- WHITE-BLK wire for Right Arrow.
- Above 2 wires together for Centre-Out Arrow.

**Note:** If the lightbar is equipped with Dual or Tri Colour warning lighthead, Colour 2 or Colour 3 will be displayed respectively.

**REAR WIG-WAG**

Activate Rear Wig-Wag by applying +VDC to GREY-WHT wire. Rear lightheads will display Single Flash [2Hz],

alternating side-by-side.
**Note:** If the lightbar is equipped with Dual or Tri Colour warning lighthead, Colour 2 or Colour 3 will be displayed respectively.
**WARNING CUT-OFF**
Deactivate warning lightheads in each respective area by applying

- +VDC to PURPLE-WHT wire for Front Cut-off.
- +VDC to BLUE-WHT wire for Rear Cut-off.
- +VDC to ORANGE wire for Corner Cut-off.

**Note:** Warning Cut-off does not affect Take-Down Light, Alley Light and Traffic Arrow function.
**LOW POWER OPERATION / DIM FUNCTION**
Activate Low Power Operation by continuously applying +VDC to RED wire.

## FUNCTION WIRES (Output)

Connect each individual function wires according to its function.
**CONTROL PANEL SIGNAL INDICATOR (REAR LIGHTHEAD)**
Connect BROWN-WHT wire to the display signal input of a compatible Control Panel to display current rear lighthead activity.
**WARNING MODE SIGNAL**
Connect BROWN wire to an apparatus that is needed to be turned ON with Warning Modes (e.g. Unlocking Siren Interlock); a 250mA signal is output whenever GREEN-WHT, YELLOW-WHT and/or ORANGE-WHT wire is activated.

## AUTO-DIMMING LIGHT SENSOR

If the lightbar is equipped with an Auto-Dimming Light Sensor, Low Power Operation will automatically activate when the ambient brightness is below the set-value (e.g. night time) and deactivate once prior condition is removed. The Auto-Dimming Light Sensor takes precedence over all other function wires.

## PC PROGRAMMING

All function wires may be customized and re-programmed to user's preference for

- Light Sensor dimming values,
- Lighthead flash delay,
- Lighthead flash groups / phases,
- Lighthead flash patterns,
- Lighthead colours,
- Low power %,
- Traffic arrow patterns,
- Output signal,
- Wire precedence (priority), and etc.

For more information about PC programming and Software, please refer to Software Manual or contact your sales representative.

## Documents / Resources

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|  | **Cell2 12VDC Silverblade Lighthead END Linear** [pdf] User Manual<br>12VDC Silverblade Lighthead END Linear, 12VDC, Silverblade Lighthead END Linear, Lighthead END Linear |