



3900 Central Parkway
 Hudsonville, MI 49426
 toll free 800.338.7337
 office 616.896.7100
 techsupport@soundoffsignal.com
 www.soundoffsignal.com

⚠ WARNING

This product contains high intensity LED devices.
 To prevent eye damage, DO NOT stare into light
 beam at close range.

ULTRALITE PLUS EXTERIOR WARNING BAR

12 MODULE EXTERIOR BAR

ASSEMBLY INSTRUCTIONS

12v: EL3PD12A00(x)

10-30v: EL3PD12A00(x)-24

10-30v w/ 50' CABLE: EL3PD12A(x)L(x)-24

WARNING: Warning devices are strictly regulated and governed by Federal, State and Municipal ordinances. These devices shall be used ONLY on approved vehicles. It is the sole responsibility of the user of these devices to ensure compliance.

MOUNTING INSTRUCTIONS

Before starting the installation make certain you have the correct bracket for your application. A universal bracket is supplied. The product is also designed for surface mounting. Drill holes where required in the mounting surface. The bolts provided can slide back and forth in the bar's rear channel to align with the mounting holes.

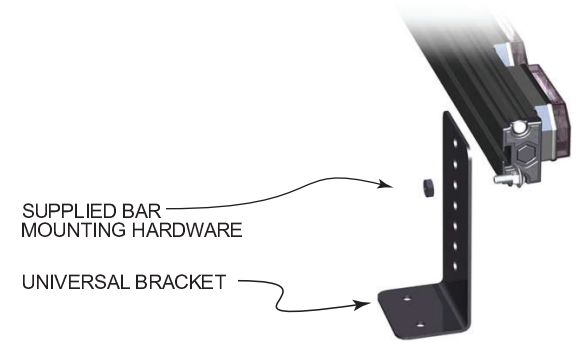
Install the UltraLITE by following the assembly instructions provided with the brackets and check for security.

Important: DO NOT over tighten mounting screws or nuts. This could cause permanent damage to the light or bracket. Use appropriate hardware for mounting.

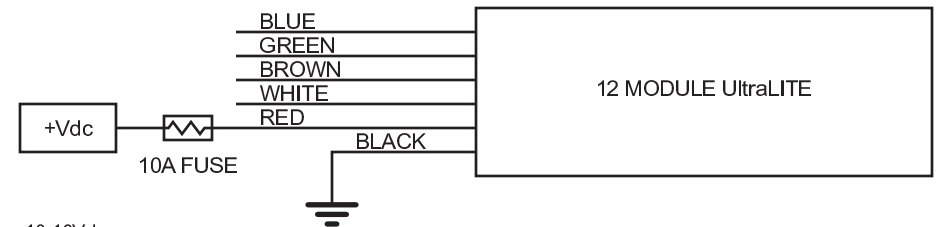
Universal bracket shown is supplied but mounting screws are customer supplied.

PATTERN SELECTION

Because of the variety of configuring options see separate sheets for detailed instructions



| WIRE HOOK-UP TABLE | |
|--------------------|-------------------------|
| Wire Color | Connect to: |
| Blue | Input 1 / Left Input |
| Green | Input 2 / Right Input |
| Brown | Input 3 / Warning Input |
| Red | +Vdc |
| Black | Ground (-) |
| White | Pattern Select |



Input Voltage (+Vdc): EL3PD12A00(x) 10-16Vdc
 EL3PD12A00(x)-24 10-30Vdc
 Current: 6 Amps Maximum



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ULTRALITE PLUS EXTERIOR WARNING BAR

12 MODULE EXTERIOR BAR FULL DIRECTIONAL ARROW CONFIGURATION INSTRUCTIONS

12v: EL3PD12AØØ(x)
 10-30v: EL3PD12AØØ(x)-24
 10-30v w/ 50' CABLE: EL3PD12A(x)L(x)-24

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PATTERN SELECTION

1. Connect BLACK wire to ground.
2. Connect RED wire to +Vdc.
3. Connect GREEN, BLUE and BROWN wires to +Vdc.
4. With power applied to the three wires, momentarily apply power to WHITE wire to change the directional arrow patterns.
5. While changing patterns, the UltraLITE will display the left arrow pattern.
6. When you have chosen the directional pattern, disconnect GREEN and BLUE wires from power.
7. With the BROWN wire connected to power, momentarily apply power to WHITE wire to change the arrow warning pattern.
8. When you have selected the arrow warning pattern, disconnect BROWN wire from power.
9. You are finished configuring the UltraLITE.

**ARROW PATTERNS for
 12 MODULE UltraLITE - 1 COLOR**

| | | | |
|----|------------------------|------|------------|
| 1 | Solid | Fast | High Power |
| 2 | Solid Plus | Fast | High Power |
| 3 | Sequential | Fast | High Power |
| 4 | Sequential2 (2 lights) | Fast | High Power |
| 5 | Chaser | Fast | High Power |
| 6 | Solid | Slow | High Power |
| 7 | Solid Plus | Slow | High Power |
| 8 | Sequential | Slow | High Power |
| 9 | Sequential2 (2 lights) | Slow | High Power |
| 10 | Chaser | Slow | High Power |
| 11 | Solid | Fast | Low Power |
| 12 | Solid Plus | Fast | Low Power |
| 13 | Sequential | Fast | Low Power |
| 14 | Sequential2 (2 lights) | Fast | Low Power |
| 15 | Chaser | Fast | Low Power |
| 16 | Solid | Slow | Low Power |
| 17 | Solid Plus | Slow | Low Power |
| 18 | Sequential | Slow | Low Power |
| 19 | Sequential2 (2 lights) | Slow | Low Power |
| 20 | Chaser | Slow | Low Power |

ARROW WARNING PATTERNS

| | | |
|----|-------------|-------------------------------|
| 1 | Double | Left and Right (Alternating) |
| 2 | Double | Every Other Module |
| 3 | Q-Switch™ | Left and Right (Alternating) |
| 4 | Q-Switch™ | Every Other (Alternating) |
| 5 | PowerPulse™ | Every Other (Alternating) |
| 6 | PowerPulse™ | Left and Right (Alternating) |
| 7 | Quad | Outer and Inner (Alternating) |
| 8 | Warp | Every Other (Alternating) |
| 9 | Crossfire | |
| 10 | HyperScan | |
| 11 | SuperScan | |
| 12 | Power Flash | |

Alternating: 1,2,3,4 alternates with 5,6,7,8
 Every Other: 1,3,5,7 alternates with 2,4,6,8



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ULTRALITE PLUS EXTERIOR WARNING BAR

12 MODULE EXTERIOR BAR FULL DIRECTIONAL ARROW CONFIGURATION INSTRUCTIONS

12v: EL3PD12AØØ(x)
 10-30v: EL3PD12AØØ(x)-24
 10-30v w/ 50' CABLE: EL3PD12A(x)L(x)-24



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PATTERN SELECTION

1. Connect BLACK wire to ground.
2. Connect RED wire to +Vdc power.
3. Connect BLUE wire to +Vdc power.
4. With power applied to BLUE wire, momentarily apply power to WHITE wire to move forward one warning pattern.
5. When you have chosen your first warning pattern, disconnect BLUE wire from power.
6. The pattern you have selected will always display on the UltraLITE when power is applied to the BLUE wire.
7. To setup your next warning pattern, connect GREEN wire to power.
8. With power applied to the GREEN wire, momentarily apply power to WHITE wire to move forward one warning pattern.
9. When you have chosen you second warning pattern, disconnect GREEN wire from power.
10. The pattern you have selected will always display on the UltraLITE when power is applied to the GREEN wire.
11. To setup the last warning pattern, connect BROWN wire to power.
12. With power applied to the BROWN wire, momentarily apply power to WHITE wire to move forward one warning pattern.
13. When you have chosen your third warning pattern disconnect BROWN wire from power.
14. The pattern you have selected will always be displayed on the UltraLITE when power is applied to the BROWN wire.
15. You are finished configuring the UltraLITE.

**FLASH PATTERNS
12 MODULE UltraLITE - SPLIT COLOR**

| | | |
|----|------------------------|--------------------|
| 1 | Quint Flash | Alternating |
| 2 | Warp Flash | Alternating |
| 3 | Inter-cycle Flash | Alternating |
| 4 | Double Flash | Alternating |
| 5 | Quad Flash | Alternating |
| 6 | 3 Flashes / Second | Alternating |
| 7 | 3 Flashes / Second | Simultaneous |
| 8 | Q-Switch™ | Alternating |
| 9 | E-Pattern Single Flash | Alternating |
| 10 | E-Pattern Double Flash | Alternating |
| 11 | E-Pattern Single Flash | Simultaneous |
| 12 | E-Pattern Double Flash | Simultaneous |
| 13 | LiteRyder | Sweep |
| 14 | Quint Flash | Every Other Module |
| 15 | Warp Flash | Every Other Module |
| 16 | Inter-cycle Flash | Every Other Module |
| 17 | Double Flash | Every Other Module |
| 18 | Quad Flash | Every Other Module |
| 19 | Q-Switch™ | Every Other Module |

Alternating: 1,2,3,4,5,6 alternates with 7,8,9,10,11,12
 Simultaneous: All modules on at same time
 Every Other: 1,3,5,7,9,11 alternates with 2,4,6,8,10,12



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ULTRALITE PLUS EXTERIOR WARNING BAR

12 MODULE EXTERIOR BAR FULL DIRECTIONAL ARROW CONFIGURATION INSTRUCTIONS

12v: EL3PD12A00(x)
 10-30v: EL3PD12A00(x)-24
 10-30v w/ 50' CABLE: EL3PD12A(x)L(x)-24



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PATTERN SELECTION

1. Connect BLACK wire to ground.
2. Connect RED wire to +Vdc.
3. Connect GREEN and BLUE wires to +Vdc.
4. With power applied to the two wires momentarily apply power to WHITE wire to change the directional arrow patterns.
5. While changing patterns, the UltraLITE will display the left arrow pattern.
6. When you have chosen the directional arrow pattern, disconnect GREEN and BLUE wires from power.
7. Connect BROWN wire to +Vdc and momentarily apply +Vdc to WHITE wire to change the warning pattern displayed on the UltraLITE.
8. When you have selected the warning pattern for the UltraLITE, disconnect BROWN wire from power.
9. You are finished configuring the UltraLITE.

PART NUMBERS: EL3PD12A10(x), EL3D12A10(x)-24, & EL3PD12A(x)L(x)-24: warning tips flash in both warning mode and directional mode.

PART NUMBERS: EL3PD12B10(x) & EL3PD12B10(x)-24: warning tips flash only when warning mode is selected.

**ARROW PATTERNS for
 12 MODULE UltraLITE - 10+2 COLOR**

| | | | |
|----|------------------------|------|------------|
| 1 | Solid | Fast | High Power |
| 2 | Solid Plus | Fast | High Power |
| 3 | Sequential | Fast | High Power |
| 4 | Sequential2 (2 lights) | Fast | High Power |
| 5 | Chaser | Fast | High Power |
| 6 | Solid | Slow | High Power |
| 7 | Solid Plus | Slow | High Power |
| 8 | Sequential | Slow | High Power |
| 9 | Sequential2 (2 lights) | Slow | High Power |
| 10 | Chaser | Slow | High Power |
| 11 | Solid | Fast | Low Power |
| 12 | Solid Plus | Fast | Low Power |
| 13 | Sequential | Fast | Low Power |
| 14 | Sequential2 (2 lights) | Fast | Low Power |
| 15 | Chaser | Fast | Low Power |
| 16 | Solid | Slow | Low Power |
| 17 | Solid Plus | Slow | Low Power |
| 18 | Sequential | Slow | Low Power |
| 19 | Sequential2 (2 lights) | Slow | Low Power |
| 20 | Chaser | Slow | Low Power |

END MODULE WARNING

| | | |
|---|---------------|--------------|
| 1 | Traffic Mover | Simultaneous |
| 2 | Q-Switch™ | Alternating |
| 3 | RoadRunner™ | Alternating |
| 4 | PowerPulse™ | Alternating |
| 5 | Progressive | Alternating |

Simultaneous: 1 and 12 together
 Alternating: 1 alternates with 12



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PATTERN SELECTION

1. Connect BLACK wire to ground.
2. Connect RED wire to +Vdc.
3. Connect GREEN and BLUE wires to +Vdc.
4. With power applied to the two wires momentarily apply power to WHITE wire to change the directional arrow patterns.
5. While changing patterns, the UltraLITE will display the left arrow pattern.
6. When you have chosen the directional arrow pattern, disconnect GREEN and BLUE wires from power.
7. Connect BROWN wire to +Vdc and momentarily apply +Vdc to WHITE wire to change the warning pattern displayed on the UltraLITE.
8. When you have selected the warning pattern for the UltraLITE, disconnect BROWN wire from power.
9. You are finished configuring the UltraLITE.

PART NUMBERS: EL3PD12A20(x), EL3PD12A20(x)-24, & EL3PD12A(x)L(x)-24: warning tips flash in both warning mode and directional mode.

PART NUMBERS: EL3PD12B20(x), & EL3PD12B20(x)-24: warning tips flash only when warning mode is selected

ARROW PATTERNS for 12 MODULE UltraLITE - 8+4 COLOR

| | | | |
|----|------------------------|------|------------|
| 1 | Solid | Fast | High Power |
| 2 | Solid Plus | Fast | High Power |
| 3 | Sequential | Fast | High Power |
| 4 | Sequential2 (2 lights) | Fast | High Power |
| 5 | Chaser | Fast | High Power |
| 6 | Solid | Slow | High Power |
| 7 | Solid Plus | Slow | High Power |
| 8 | Sequential | Slow | High Power |
| 9 | Sequential2 (2 lights) | Slow | High Power |
| 10 | Chaser | Slow | High Power |
| 11 | Solid | Fast | Low Power |
| 12 | Solid Plus | Fast | Low Power |
| 13 | Sequential | Fast | Low Power |
| 14 | Sequential2 (2 lights) | Fast | Low Power |
| 15 | Chaser | Fast | Low Power |
| 16 | Solid | Slow | Low Power |
| 17 | Solid Plus | Slow | Low Power |
| 18 | Sequential | Slow | Low Power |
| 19 | Sequential2 (2 lights) | Slow | Low Power |
| 20 | Chaser | Slow | Low Power |

END MODULE WARNING

| | | |
|---|---------------|--------------|
| 1 | Traffic Mover | Simultaneous |
| 2 | Q-Switch™ | Alternating |
| 3 | RoadRunner™ | Alternating |
| 4 | PowerPulse™ | Alternating |
| 5 | Progressive | Alternating |

Simultaneous: 1-2 and 11-12 together
Alternating: 1-2 alternates with 11-12