www.WHELEN.com
ENGINEERING COMPANY INC.

51 Winthrop Road
Chester, Connecticut 06412-0684
Phone: (860) 526-9504
Sales Email:autosale@whelen.com
Canadian Sales:canadiansales@whelen.com
Customer Service:custserv@whelen.com

Safety First: This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must read this manual completely. Important information is contained herein that could prevent serious injury or damage.

- **Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.**
- **Whelen Engineering requires the use of waterproof butt splices and/or connectors if that connector could be exposed to moisture.**
- **Failure to use specified installation parts and/or hardware will void the product warranty!**
- **If mounting this product requires drilling holes, the installer MUST be sure that no vehicle components or other vital parts could be damaged by the drilling process. Check both sides of the mounting surface before drilling begins. Also de-burr any holes and remove any metal shards or remnants. Install grommets into all wire passage holes.**
- **Do not install this product or route any wires in the deployment area of your air bag. Equipment mounted or located in the air bag deployment area will damage or reduce the effectiveness of the air bag, or become a projectile that could cause serious personal injury or death. Refer to your vehicle owner's manual for the air bag deployment area. The User/Installer assumes full responsibility to determine proper mounting location, based on providing ultimate safety to all passengers inside the vehicle.**
- **For this product to operate at optimum efficiency, a good electrical connection to chassis ground must be made. The recommended procedure requires the product ground wire to be connected directly to the NEGATIVE (-) battery post.**
- **If this product uses a remote device to activate or control this product, make sure that this control is located in an area that allows both the vehicle and the control to be operated safely in any driving condition.**
- **Do not attempt to activate or control this device in a hazardous driving situation.**
- **This product contains either strobe light(s), halogen light(s), high-intensity LEDs or a combination of these lights. Do not stare directly into these lights. Momentary blindness and/or eye damage could result.**
- **Use only soap and water to clean the outer lens. Use of other chemicals could result in premature lens cracking (crazing) and discoloration. Lenses in this condition have significantly reduced effectiveness and should be replaced immediately. Inspect and operate this product regularly to confirm its proper operation and mounting condition. Do not use a pressure washer to clean this product.**
- **WARNING! All customer supplied wires that connect to the positive (+) terminal of the battery must be sized to supply at least 125% of the maximum operating current and FUSED "at the battery" to carry that load. DO NOT USE CIRCUIT BREAKERS WITH THIS PRODUCT!**
- **FAILURE TO FOLLOW THESE PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!**

Mounting:

1. Mark the location of the 2 mounting holes onto the mounting surface using the dimensions shown, or use the flange as a template. Always check behind the mounting surface to be sure you will not harm other vehicle components.
2. Drill the 2 mounting holes using a drill sized for a #6 sheet metal screw, then drill the 7/8" wire access hole as shown. Deburr this hole before continuing.
3. Feed wires through wire hole then secure Strip-Lite™ to mounting surface as shown.

IMPORTANT! Proper installation requires the vent membrane to be located above the horizontal centerline of the installed Strip-Lite!

Wiring (Note: All switches and fuses are customer supplied):

Ground (BLK) - Extend BLK wire to Chassis Ground.

Color 1 (*LED COLOR*) - Extend this wire to +12VDC via an SP/ST switch (Fuse at 3 amps).

Color 2 (*LED COLOR*) - Extend this wire to +12VDC via an SP/ST switch (Fuse at 3 amps).

Scan-Lock™ (WHT/VIO) - Extend WHT/VIO wire to +12VDC via a momentary switch (fused@1A). Refer to the Scan-Lock section for operational information.

SYNC (GREY) - To SYNC 2 lightheads, configure both lightheads to display the same Phase 1 pattern. Turn power off and connect the GREY wire from each lighthead together. Activate the lightheads and their patterns will be synchronized. To configure 2 lightheads to alternate their patterns, advance either lighthead to Phase 2 of the current pattern.

Scan-Lock:
Pattern Buffer Note: This model features 3 pattern buffers; Color 1, Color 2 and Colors 1&2 (activated simultaneously). Each buffer will display its own flash pattern when activated. To change the flash pattern for any of the three pattern buffers, that buffer must be active.

To advance to next pattern: Apply +12VDC to WHT/VIO wire for less than 1 second and release.

To cycle back to previous pattern: Apply +12VDC to WHT/VIO wire for over 1 second and release.

To change the default pattern: When the desired pattern is displayed, allow it to run for more than 5 seconds. The lighthead will now display this pattern when initially activated.

To restore the factory default pattern: With the light turned off, apply power to the WHT/VIO wire. With power applied to the WHT/VIO wire, turn light on. Allow the unit to run for 3 seconds before removing power from the WHT/VIO wire. This will reset all patterns back to their default settings.

Pattern #69 (Steady) Operation: This is the Override pattern, meaning if either Color 1 or Color 2 is configured to display Pattern #69, the Override pattern will be displayed when Colors 1&2 are activated simultaneously. For example:

If Color 1 is set to Pattern #69, and Color 2 is any other pattern, the Override pattern (Color 1 in this example) will be displayed whenever Colors 1&2 are activated simultaneously.

IMPORTANT WARNING!

CAUTION! DO NOT LOOK DIRECTLY AT THESE LEDS WHILE THEY ARE ON. MOMENTARY BLINDNESS AND/OR EYE DAMAGE COULD RESULT!

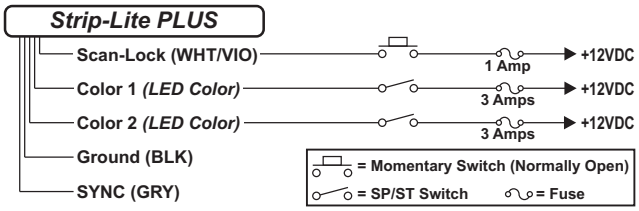
Lighthead Operation:

Note: Phases 1 & 2 are visually indistinguishable.

PHASE 1 - (ON-OFF-ON).

PHASE 2 - (OFF-ON-OFF).

Wiring Diagram



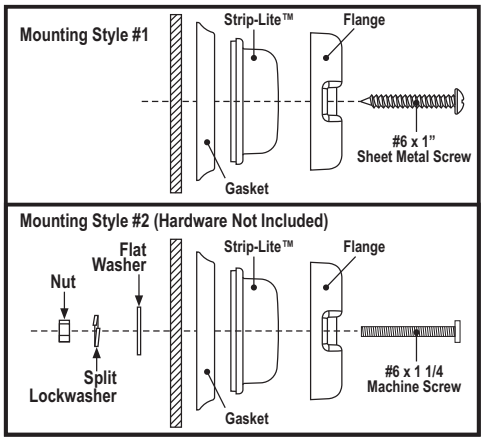
SYNC Flash Patterns

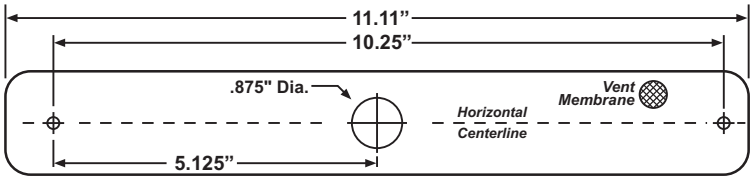
1. Signal Alert 75 PH 1
2. Signal Alert 75 PH 2
3. Signal Alert 75 PH 3
4. Signal Alert 75 PH 4
5. CometFlash® 75 PH 1
6. CometFlash® 75 PH 2
7. CometFlash® 75 PH 3
8. CometFlash® 75 PH 4
9. **DoubleFlash 75 PH 1**
10. **DoubleFlash 75 PH 2**
11. **DoubleFlash 75 PH 3**
12. **DoubleFlash 75 PH 4**
13. **SingleFlash 75 PH 1**
14. **SingleFlash 75 PH 2**
15. **SingleFlash 75 PH 3**
16. **SingleFlash 75 PH 4**
17. ComAlert™ 75 PH 1
18. ComAlert™ 75 PH 2
19. ComAlert™ 75 PH 3
20. ComAlert™ 75 PH 4
21. LongBurst™ 75 PH 1
22. LongBurst™ 75 PH 2
23. LongBurst™ 75 PH 3
24. LongBurst™ 75 PH 4
25. **PingPong™ 75 PH 1**
26. **PingPong™ 75 PH 2**
27. **PingPong™ 75 PH 3**
28. **PingPong™ 75 PH 4**

Non-SYNC Flash Patterns

29. **SingleFlash 60 ALT**
30. **SingleFlash 60 SIM**
31. **SingleFlash 90 ALT**
32. **SingleFlash 90 SIM**
33. **SingleFlash 120 ALT**
34. **SingleFlash 120 SIM**
35. SingleFlash 300 ALT
36. SingleFlash 300 SIM
37. **DoubleFlash 120 ALT**
38. **DoubleFlash 120 SIM**
39. ComAlert™ 150 ALT
40. ComAlert™ 150 SIM
41. **PingPong™ 120 ALT**
42. **PingPong™ 120 SIM**
43. **TripleFlash™ 75 ALT**
44. **TripleFlash™ 75 SIM**
45. **TripleFlash™ 120 ALT**
46. **TripleFlash™ 120 SIM**
47. ActionFlash™ 50 ALT
48. ActionFlash™ 50 SIM
49. ActionFlash™ 150 ALT
50. ActionFlash™ 150 SIM
51. **CAL SignalAlert™ ALT**
52. **CAL SignalAlert™ SIM**
53. **Action-SF 60/120 ALT**
54. **Action-SF 60/120 SIM**
55. **Action-SF 120/TF75 ALT**
56. **Action-SF 120/TF75 SIM**
57. **CalScan™ ALT**
58. **CalScan™ SIM**
59. ModuFlash™ ALT
60. ModuFlash™ SIM
61. ActionScan™ ALT
62. ActionScan™ SIM
63. **CAL CometFlash® ALT**
64. **CAL CometFlash® SIM**
65. **Steady / Flash 60**
66. **Steady / Flash 75**
67. **Steady / Flash 90**
68. **Steady / Flash 120**
69. **Steady / Steady**

ALT = Alternating
SIM = Simultaneous
BOLD = California Title XIII





Form No. 14B65 (041318)

For warranty information regarding this product, visit www.whelen.com/warranty