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Safety First

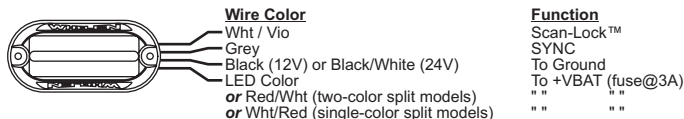
This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must read this manual completely. Important information is contained 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.
- 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.
- 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 high-intensity LEDs. 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. Place the unit against the mounting surface and mark the two mounting hole locations. Confirm that no vehicle parts could be damaged by the drilling process.
2. Using a #30 drill bit, drill two mounting holes. A 1/2" dia. wire passage hole must also be drilled. Thoroughly de-burr all holes.
3. Route the wires through the hole in the gasket and through the wire passage hole. Secure the lighthouse to the mounting surface using the hardware provided.

Wiring



Operation

Scan-Lock™ (WHT/VIO) - To advance to the next pattern, apply +VDC to the WHT/VIO wire for less than 1 second. To cycle backwards, apply +VDC for more than 1 second. To reset to the factory default pattern, turn off power to the lighthouse. While applying +VDC to the WHT/VIO, turn the lighthouse back on. Continue to apply voltage for 5 seconds.

Lighthouses configured to display the Phase 1 mode of a pattern will flash simultaneously. Any lighthouses configured to display the Phase 2 mode will alternate with any Phase 1 lighthouses with the same pattern.

Sync (GREY) - To sync two lighthouses, configure both lighthouses to display the same Phase 1 pattern. With the power off, connect the GREY wires from each lighthouse together. When the lighthouses are activated, their patterns will be synchronized. To configure the two lighthouses to alternate their patterns, advance the pattern of either lighthouse to the Phase 2 mode of the current pattern. The same concept applies to Phases 3 & 4.

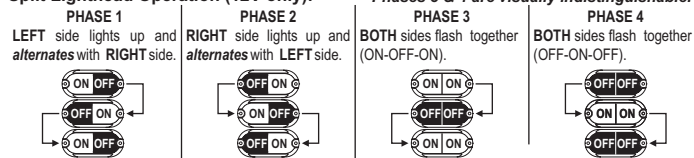
To understand how to use the sync feature with more than two lighthouses, the principles will be applied to a sample system consisting of 4 lighthouses with 2 mounted on the rear, driver-side and 2 mounted on the rear, passenger-side. With all the wiring complete, turn on all 4 lighthouses. As shipped from factory, the lighthouses will all display SignalAlert™ 75 - Phase 1. To configure one side to alternate with the other side, change the pattern for either the passenger or driver side to Phase 2 mode for that pattern.

IMPORTANT! SYNC-capable LED lighthouses can be SYNCed to a SYNC-capable strobe power supply (such as the CS240S or UPS64LXA) by wiring their GREY wires together. When connected, LED lighthouses in Phase 1 of a pattern will flash **simultaneously** with strobe lighthouses connected to the GREEN wire outputs. LED lighthouses set to Phase 2 of a pattern will **alternate** with strobe lighthouses connected to the WHITE wire outputs. GREEN wire outputs always alternate with WHITE wire outputs.

IMPORTANT! It is the responsibility of the installation technician to make sure that the installation and operation of this product will not interfere or compromise the operation or efficiency of any vehicle equipment!

Before returning the vehicle to active service, visually confirm the proper operation of this product, as well as all vehicle components and/or equipment.

Split Lighthouse Operation (12V only):



Flash Patterns:

NOTE: **BOLD** = California Title XIII Compliant Pattern *Italic* = SYNC Pattern
PH 1 = Phase 1 PH 2 = Phase 2

1. <i>SignalAlert™ 75</i>	PH 1	36. SingleFlash 120	Sim.
2. <i>SignalAlert 75</i>	PH 2	37. SingleFlash 300	Alt.
3. <i>SignalAlert 75</i>	PH 3	38. SingleFlash 300	Sim.
4. <i>SignalAlert 75</i>	PH 4	39. DoubleFlash 150	Alt.
5. <i>CometFlash® 75</i>	PH 1	40. DoubleFlash 150	Sim.
6. <i>CometFlash 75</i>	PH 2	41. ComAlert™ 150	Alt.
7. <i>CometFlash 75</i>	PH 3	42. ComAlert™ 150	Sim.
8. <i>CometFlash 75</i>	PH 4	43. ActionFlash™ 50	Alt.
9. DoubleFlash 75	PH 1	44. ActionFlash™ 50	Sim.
10. DoubleFlash 75	PH 2	45. ActionFlash™ 150	Alt.
11. DoubleFlash 75	PH 3	46. ActionFlash™ 150	Sim.
12. DoubleFlash 75	PH 4	47. ModuFlash™	Alt.
13. SingleFlash 75	PH 1	48. ModuFlash™	Sim.
14. SingleFlash 75	PH 2	49. DoubleFlash 120	ALT
15. SingleFlash 75	PH 3	50. DoubleFlash 120	SIM
16. SingleFlash 75	PH 4	51. PingPong™ 120	ALT
17. <i>ComAlert™ 75</i>	PH 1	52. PingPong 120	SIM
18. <i>ComAlert 75</i>	PH 2	53. TripleFlash™ 75	ALT
19. <i>ComAlert 75</i>	PH 3	54. TripleFlash 75	SIM
20. <i>ComAlert 75</i>	PH 4	55. TripleFlash 120	ALT
21. <i>LongBurst™ 75</i>	PH 1	56. TripleFlash 120	SIM
22. <i>LongBurst 75</i>	PH 2	57. SigAlert Cal.™	ALT
23. <i>LongBurst 75</i>	PH 3	58. SigAlert Cal.	SIM
24. <i>LongBurst 75</i>	PH 4	59. Action SF 60/120	ALT
25. PingPong™ 75	PH 1	60. Action SF 60/120	SIM
26. PingPong 75	PH 2	61. Action SF60/TF120	ALT
27. PingPong 75	PH 3	62. Action SF60/TF120	SIM
28. PingPong 75	PH 4	63. CalScan™	ALT/SIM
29. <i>SSNF 75</i>	PH 1	64. ActionScan™	ALT/SIM
30. <i>SSNF 75</i>	PH 2	65. SteadyFlash 60	
31. SingleFlash 60	Alt.	66. SteadyFlash 75	
32. SingleFlash 60	Sim.	67. SteadyFlash 90	
33. SingleFlash 90	Alt.	68. SteadyFlash 120	
34. SingleFlash 90	Sim.	69. Steady & Steady	
35. SingleFlash 120	Alt.		