

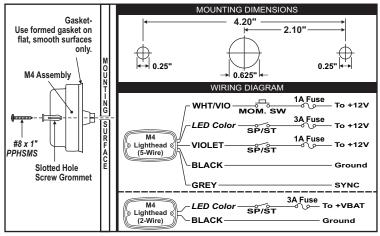
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Safety First: This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must 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.
- 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.

Mounting

- Using the dimensions below, mark the mounting and wire hole locations onto the proposed mounting surface. Drill two, .250" diameter mounting holes and a .625" (minimum) wire access hole into the mounting surface.
- Place the gasket into position on the rear of the M4 assembly. Insert the slotted hole screw grommet through the mounting holes on the M4/Gasket assembly.
- 3. Feed the M4 wires through the wire access hole in the mounting surface. Press the M4/Gasket/Grommet assembly onto its mounting location so that it is flat against the mounting surface. With the assembly in position and using the hardware provided, tighten the mounting screws until the lighthead assembly is drawn firmly against the mounting surface. DO NOT OVERTIGHTEN!
- 4. Using appropriately sized wires (minimum 18 AWG), extend the M4 wires to their designated connections. Refer to the diagram below for wiring and fusing information.



RED - Flash Mode:

Apply +VBAT to the RED wire to activate the lighthead in "flash mode". In flash mode, you may change the flash pattern using Scan-Lock™.

GREY - SYNC: To SYNC 2 lightheads, configure both lightheads to display the same Phase 1 (Simultaneous) 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 (Alternating) of the current pattern.

VIOLET - Low Power:

The type of switch used depends on how the operator wishes the Low Power feature to function: Latching Mode: By applying +VBAT to the VIO wire for less than 1 sec., the lighthead is "latched" into low power. The unit must be turned off and then back on to restore normal operation (momentary switch). Level Mode: Applying +VBAT to the VIO wire for more than 1 sec. holds the lighthead in low power mode until voltage is removed (toggle switch). Note: There are 5 levels of low power intensity.

Waterproof butt splices and/or connectors are required if that connection could be exposed to moisture. Any unused wires must be sealed (waterproofed) to prevent moisture infiltration.

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

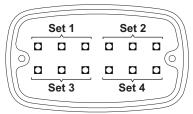
- Do not attempt to activate or control this device in a hazardous driving situation.
- If this product uses a remote device to activate or control this product, make sure that this control is located in an area that allows both the vehicle and the control to be operated safely in any driving condition.
- 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 <u>FUSED</u> "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!

3 SignalAlert™ 4 SignalAlert™ 5 SignalAlert™ 6 SignalAlert™ 8 SignalAlert™ 9 CometFlash®75 11 CometFlash®75 12 CometFlash®75 13 CometFlash®75 14 CometFlash®75 15 CometFlash®75 16 CometFlash®75 17 DoubleFlash®75 18 DoubleFlash75 20 DoubleFlash75 21 DoubleFlash75 21 DoubleFlash75 22 DoubleFlash75 23 DoubleFlash75 23 DoubleFlash75 24 DoubleFlash75 25 SingleFlash75 26 SingleFlash75 28 SingleFlash75 28 SingleFlash75 29 SingleFlash75 29 SingleFlash75 29 SingleFlash75 20 SingleFlash75 20 SingleFlash75 23 ComAlert™ 34 ComAlert™ 30 ComAlert™ 30 ComAlert™ 30 ComAlert™ 30 ComAlert™ 30 ComAlert™ 31 ComAlert™ 32 ComAlert™ 32 ComAlert™ 33 ComAlert™ 34 CongBurst™ 34 LongBurst™	L/R	PH.2 PH.1 PH.1 PH.2 PH.1 PH.1 PH.1 PH.1 PH.1 PH.1 PH.1 PH.1	49 501 523 545 557 589 661 623 646 566 678 8 970 1723 745 56778 900 182 838 8888 888 888 888 888 888 888 888 888 888 888	PingPong™ PingPong™ PingPong™ PingPong™ PingPong™ PingPong™ PingPong™ SingleFlash 60 SingleFlash 60 SingleFlash 60 SingleFlash 90 SingleFlash 90 SingleFlash 90 SingleFlash 90 SingleFlash 120 SingleFlash 120 SingleFlash 120 SingleFlash 120 SingleFlash 120 SingleFlash 130 OsingleFlash 130 OsingleFlash 130 DoubleFlash 150 DoubleFlash 150 DoubleFlash 150 DoubleFlash 150 DoubleFlash 150 DoubleFlash 150 ComAlert™ 150 ActionFlash™50 ActionFlash™50 ActionFlash™50	Solid L/R L/R T/B Diag Diag Solid L/R Diag Solid L/R T/B Diag Solid L/R T/B Diag Solid L/R T/B Diag Solid L/R T/B Diag Solid L/R T/B Diag Solid L/R T/B Diag Solid L/R T/B Diag Solid L/R T/B Diag Solid L/R T/B Diag Solid Solid L/R T/B Diag Solid Solid Solid L/R T/B Diag Solid Solid L/R T/B Diag Solid Solid L/R T/B Diag Solid Solid L/R T/B Diag Solid Solid L/R T/B Diag Solid Solid L/R T/B Diag Solid L/R T/B Diag Solid Solid L/R T/B Diag Solid Solid L/R T/B Diag Solid Solid Solid L/R T/B Solid Solid Soli	PH.1 PH.2 PH.1 PH.2 PH.1 PH.2	101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124	ModuFlash™ DoubleFlash 120 DoubleFlash 120 DoubleFlash 120 DoubleFlash 120 PingPong™120 PingPong™120 PingPong™120 TripleFlash™75 TripleFlash™75 TripleFlash™75 TripleFlash™75 TripleFlash™75 TripleFlash™120 TripleFlash™120 TripleFlash™120 Action SF 60/120 Action SF 60/120 Action SF 60/120 Action SF 60/120 Action SF 60/120 Action SF 60/120 Action SF 60/171 Action SF 60/TF 120 Action SF	
BOLD = Cal. Title	BOLD = Cal. Title XIII Compliant ITALIC = SYNC L/R=Left/Right T/B=Top/Botto						Bottom		

WHITE/VIO - Scan-Lock ™ Pattern Selection: This feature allows the user to select from several available flash patterns. Lighthead must be switched on for Scan-Lock to work. TO CYCLE THROUGH ALL PATTERNS: Apply +VBAT to the WHT/VIO wire for over 1 second and release. TO scie backward through patterns apply +VBAT to WHT/VIO wire for over 1 second and release. TO SETAPATTERNAS DEFAULT: Allow pattern to run over 5 seconds to make it the default pattern. TO RESET TO THE FACTORY DEFAULT PATTERN: Turn off power. While applying +VBAT to the WHT/VIO wire, turn power on. The lighthead will reset to it's default pattern.

M4 Sequencing & Phasing: Th	
ighthead has 4 sets of 3 LEDs. Thes	se sets
cycle through the 4 sequences show	'n.

Sequences	Operation of LED sets						
Solid	All Or	Alternates with	All Off				
Left to Right	1 - 3	Alternates with	2 - 4				
Top to Bottom	1 - 2	Alternates with	3 - 4				
Diagonal	1 - 4	Alternates with	2 - 3				



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