





Fusion Surface Mount INSTRUCTION MANUAL FSM-40* // FSM-180*



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SAFETY REGULATIONS & WARRANTY



The following provides all the information necessary to safely operate the previously listed products of Feniex Industries, Inc. Please read this manual thoroughly before installing or operating your new product in order to prevent any damage or injury. Failure to follow the listed instructions in this manual may result in damage to your products or personal injury.

- Proper installation of this product requires good knowledge of automotive systems, electronics & procedures.
- Please guarantee all vital components of the vehicle are not in danger of being damaged by drilling holes necessary for installation. Check all sides of the mounting surface before drilling any holes into the vehicle.
- Do not install this product in any way that interferes with the deployment of the air bag. Doing so may damage the effectiveness of the air bag & can lead to serious personal and vehicle injury. The installer will assume full responsibility of proper installation of the new unit.
- Please clean the mounting surface before installation of the unit when using tape, brackets, magnet, Velcro or suction cups.
- The product's ground wire must be connected directly to the negative (-) battery post for effective use of the unit. Please follow all wiring guidelines provided to guarantee long lifespan & productivity. Failing to follow these instructions may result in damage to the product.

WARRANTY

Feniex Industries, Inc. warrants to the original purchaser that the product shall be free from defects in material & workmanship for 5 years from the date of purchase for all LED products. Feniex Industries warranties speakers, sirens, flashers, & controllers for 2 years.

If warranty service is needed, please contact customer support:

Phone: 1.800.615.8350 Web Site: www.Feniex.com/support Email: techsupport@feniex.com

If the product needs to be returned for repair or replacement, contact our customer service team (using any method listed above) to receive a Return Merchandise Authorization (RMA) number. Operational times are from 9 a.m. to 6 p.m. central time, Monday through Friday.

Please do not send in product without contacting support first for a Return Merchandise Authorization (RMA) number.

CONDITIONS

Feniex Industries, Inc. will not be held responsible for any costs associated with equipment removal and/or re-installation resulting from a warranty claim. It is the sole responsibility of the party initiating a warranty claim to pay shipping charges associated with returning a product to Feniex Industries for repair or replacement.

SERVICE AFTER EXPIRATION

Feniex Industries will still provide service for all products after expiration of the warranty. For any issues, call the customer support line. In some instances it may be necessary for the product to be shipped, freight prepaid and insured for loss or damage to Feniex headquarters.

Utilizing non-factory screws and mounting brackets may result in the loss of warranty coverage.

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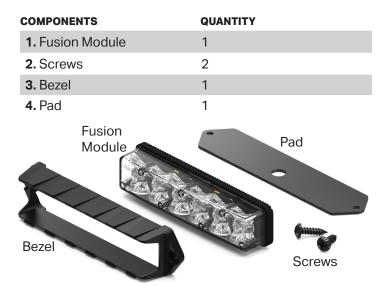
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BOX CONTENTS, SPECIFICATIONS, & DIMENSIONS





SYSTEM SPECIFICATIONS

Input	Power	12 VDC	
Curre	ent Draw	0.75A	
External Fuse		125% of Circuit Load	
Colors R, A, B, W		R, A, B, W, RW, BW, AW, RB, RA, BA	
SAE	Certification	J595, CT13, SAE J1113-11	
Flash	Patterns	14 Single Color, 39 Dual Color	
Dime	ensions	1.17" H x 5.22" L x 0.88" W	
Light	Spread	40° or 180°	
Warra	anty	5 Years	

SINGLE COLOR FLASH PATTERNS	FLASH RATE:
Single Slow	75 FPM
Single Fast	120 FPM
Single Combo	75 FPM/120 FPM
Double Slow	75 FPM
Double Fast	120 FPM
Double Combo	75 FPM/120 FPM
Triple Slow	75 FPM
Triple Fast	120 FPM
Triple Combo	75/120 FPM
Attack 1	N/A
Attack 2	N/A
Brake Pop	N/A
Steady On	N/A
Steady On Dim (25%)	N/A

DUAL COLOR FLASH PATTERNS	FLASH RATE:
Color 1: Single Slow	75 FPM
Color 1: Single Fast	120 FPM
Color 1: Single Combo	75 FPM/120 FPM
Color 1: Double Slow	75 FPM
Color 1: Double Fast	120 FPM
Color 1: Double Combo	75/120 FPM
Color 1: Triple Slow	75 FPM
Color 1: Triple Fast	120 FPM
Color 1: Triple Combo	75/120 FPM
Attack 1	N/A
Attack 2	N/A
Color 2: Single Slow	75 FPM
Color 2: Single Fast	120 FPM
Color 2: Single Combo	75 FPM/120 FPM
Color 2: Double Slow	75 FPM
Color 2: Double Fast	120 FPM
Color 2: Double Combo	75/120 FPM
Color 2: Triple Slow	75 FPM
Color 2: Triple Fast	120 FPM
Color 2: Triple Combo	75/120 FPM
Color 2: Attack 1	N/A
Color 2: Attack 2	N/A
Color 1 & 2: Single Slow	75 FPM
Color 1 & 2: Single Fast	120 FPM
Color 1 & 2: Single Combo	75 FPM/120 FPM
Color 1 & 2: Double Slow	75 FPM
Color 1 & 2: Double Fast	120 FPM
Color 1 & 2: Double Combo	75/120 FPM
Color 1 & 2: Triple Slow	75 FPM
Color 1 & 2: Triple Fast	120 FPM
Color 1 & 2: Triple Combo	75/120 FPM
Color 1 & 2: Attack 1	N/A
Color 1 & 2: Attack 2	N/A
Color 1: Brake Pop	N/A
Color 1: Steady On	N/A
Color 1: Steady On Dim (25%)	N/A
Color 2: Brake Pop	N/A
Color 2: Steady On	N/A
Color 2: Steady On Dim (25%)	N/A

FENIEX // INSTRUCTION MANUAL WEB // www.feniexindustries.com

WIRING, CONFIGURATION, & MOUNTING INSTRUCTIONS

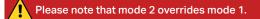


WIRING DIAGRAM

COLOR	FUNCTION	POLARITY	CONNECTION
Red	Mode 1	12v (+)	Latching Switch
Yellow	Mode 2	12v (+)	Latching Switch
Blue	Pattern	12v (-)	Momentary Switch
Black	Ground	12v (-)	Chasis Ground

WIRING INSTRUCTIONS:

1) To activate the unit, extend the red (+) or yellow (+) wire to a 12V post. Extend the black (-) wire to the ground post of the vehicle's battery.



2) Momentarily connect the blue wire to the ground (12V-) to cycle through the flash patterns.

SYNCHRONIZATION:

3) To sync two or more light heads together:

A) Apply 12V+ power to the red or yellow (+) wire and apply 12V- to black wire to power the unit on.

B) Cycle through all patterns by tapping the blue (flash pattern changer) wire to the activated black ground wire until the steady burn pattern is selected.

C) Turn power off. Connect one of the same colored mode wires (red or yellow) of the two light heads together, connect the black wires of the light heads together and then connect the blue wires of the light heads together. Turn power back on.

ALTERNATE LIGHT HEADS:

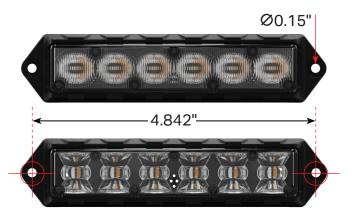
D) Follow steps A-B.

E) For the light heads to alternate, one light head must be set as master and the other as slave on the mode wire intended for use. To do so, hold the blue (flash pattern changer) wire to ground for 3 seconds. If all LEDs turn on, this indicates master mode. If no LEDs turn on, this indicates slave mode.

F) Follow step C. Change patterns by tapping the blue wire to the activated black ground wire.

MOUNTING INSTRUCTIONS:

1) Place the unit against the selected mounting surface.



2) Mark the areas where the mounting holes will be drilled. If the mounting surface is part of the vehicle, make sure no vital components could be damaged by the drilling process.

3) Drill two mounting holes in the marked surface as well as a 0.5" diameter hole for wire passage (if mounting on a vehicle). Use the rubber pad to position the 0.5" hole for the wires. Make sure to deburr holes thoroughly. Use a grommet if needed.

4) Pass the wires through the 0.5" diameter hole, and secure the light head to the mounting surface with the provided hardware.

