

Installation and Operation Instructions




Multi-Mount Directional LED

IMPORTANT! Read all instructions before installing and using. Installer: This manual must be delivered to the end user.



WARNING!

Failure to install or use this product according to manufacturer's recommendations may result in property damage, serious injury, and/or death to those you are seeking to protect!

 **Do not install and/or operate this safety product unless you have read and understood the safety information contained in this manual.**

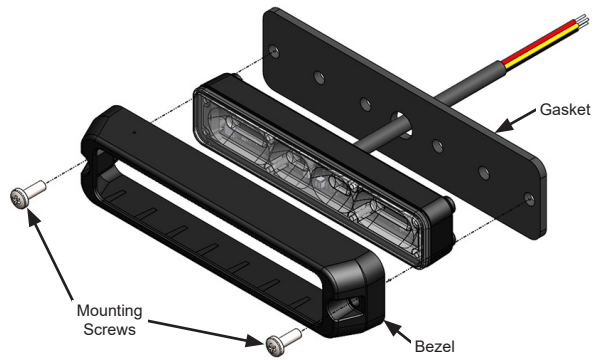
1. Proper installation combined with operator training in the use, care, and maintenance of emergency warning devices are essential to ensure the safety of emergency personnel and the public.
2. Emergency warning devices often require high electrical voltages and/or currents. Exercise caution when working with live electrical connections.
3. This product must be properly grounded. Inadequate grounding and/or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.
4. Proper placement and installation is vital to the performance of this warning device. Install this product so that output performance of the system is maximized and the controls are placed within convenient reach of the operator so that they can operate the system without losing eye contact with the roadway.
5. Do not install this product or route any wires in the deployment area of an air bag. Equipment mounted or located in an air bag deployment area may reduce the effectiveness of the air bag or become a projectile that could cause serious personal injury or death. Refer to the vehicle owner's manual for the air bag deployment area. It is the responsibility of the user/operator to determine a suitable mounting location ensuring the safety of all passengers inside the vehicle particularly avoiding areas of potential head impact.
6. It is the responsibility of the vehicle operator to ensure daily that all features of this product work correctly. In use, the vehicle operator should ensure the projection of the warning signal is not blocked by vehicle components (i.e., open trunks or compartment doors), people, vehicles or other obstructions.
7. The use of this or any other warning device does not ensure all drivers can or will observe or react to an emergency warning signal. Never take the right-of-way for granted. It is the vehicle operator's responsibility to be sure they can proceed safely before entering an intersection, drive against traffic, respond at a high rate of speed, or walk on or around traffic lanes.
8. This equipment is intended for use by authorized personnel only. The user is responsible for understanding and obeying all laws regarding emergency warning devices. Therefore, the user should check all applicable city, state, and federal laws and regulations. The manufacturer assumes no liability for any loss resulting from the use of this warning device.

Specifications

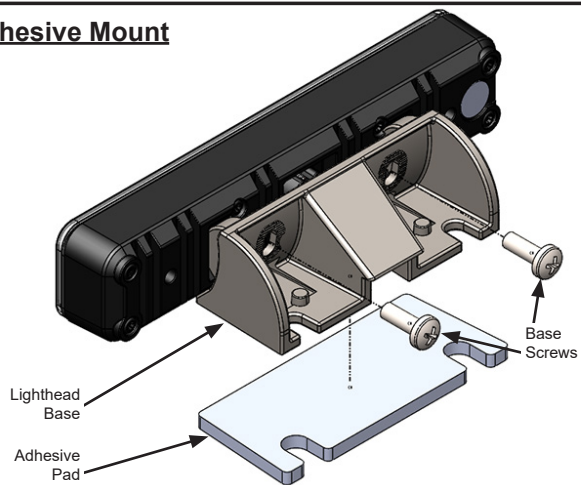
	MR6X	MR6MC-XX	MR24Q-XXXX
Size:	4.3" x 0.7" x 0.9"		
Size w/ Bezel:	5.1" x 0.7" x 1.1"		
Weight:	0.48 lbs.		
Input Voltage:	12-24 VDC		
Current:	0.9 A @ 12 VDC	1.3 A @ 12 VDC	0.9 A @ VDC
Power:	11.6 W	16.7 W	11W
Temp. Range:	-40° to 65°C -40 to 149°F		

Installation and Mounting

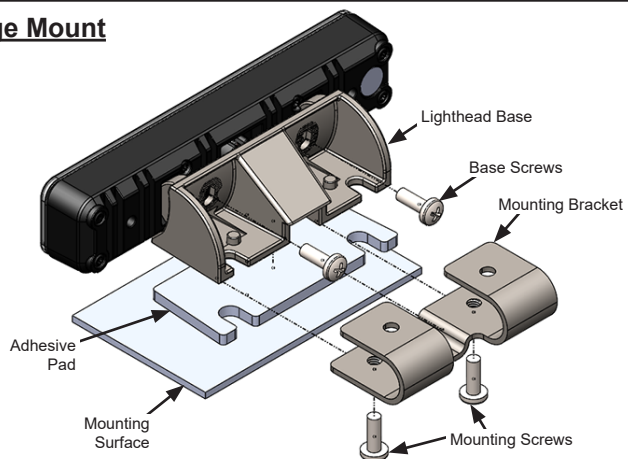
Bezel Mount



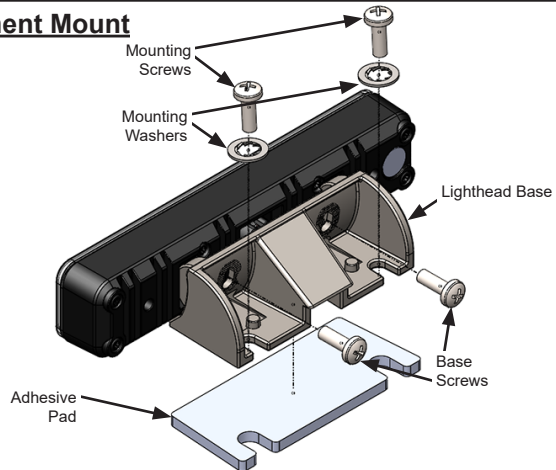
Adhesive Mount



Edge Mount



Permanent Mount



Wiring Instructions

MR6X

RED: Positive(need to add 2A Fuse)
BLACK: Negative
BLUE: Pattern Switch
YELLOW: Synchronized Function
(Up to 8 units can be Synchronized)

MR6MC-XX

RED: Positive, Colors 1 & 3 (need to add 5A Fuse)
WHITE: Positive, Colors 2 & 4 (need to add 5A Fuse)
BLACK: Negative
BLUE: Pattern Select to negative
YELLOW: Synchronized Function
(Up to 8 units can be Synchronized)

MR24Q-XXXX

RED: Group 1 to Positive
GREEN: Group 2 to Positive
ORANGE: Group 3 to Positive
WHITE: Group 4 to Positive
RED & GREEN: Group 5 to Positive
RED & ORANGE: Group 6 to Positive
RED & WHITE: Group 7 to Positive
GREEN & ORANGE: Group 8 to Positive
GREEN & WHITE: Group 9 to Positive
ORANGE & WHITE: Group 10 to Positive
RED & GREEN & ORANGE: Group 11 to Positive
RED & GREEN & WHITE: Group 12 to Positive
RED & ORANGE & WHITE: Group 13 to Positive
GREEN & ORANGE & WHITE: Group 14 to Positive
RED & GREEN & WHITE & ORANGE: Group 15 to Positive
BLACK: Negative
BLUE: Pattern Select to Negative
 Dimming to Positive (Optional)
YELLOW: Synchronized Function

Synchronization:

The directional is capable of syncing with other CODE 3 compatible products by following the steps below.

Step 1. Set the desired flash pattern on each unit individually. It is also strongly recommended that the same rate and style of flash pattern be used on all synced units to produce the most effective warning pattern. **Note: To operate simultaneously, each unit must be set to the same phase (A + A or B + B); to operate alternately, units must be set to have the opposite phase (A + B or B + A).**

Step 2. Connect the yellow sync wires together and check that the units are flashing in a synchronized manner as expected. If a pattern on one unit appears incorrect, the blue pattern select wire can be used to cycle forward or backward on that individual unit until the correct pattern is selected. **Note: This will only change the pattern in the one unit and will not affect the other units connected to the yellow sync wire.**

Pattern Selection:

Apply BLUE wire to Negative:

- Less than 1 sec. for next pattern
- Between 1-3 sec. for previous pattern
- Between 3-5 sec. for factory default pattern
- More than 5 sec. for last pattern

Flash Patterns

SINGLE COLOR DIRECTIONAL [MR6X] Flash Pattern Chart

Pattern	MODE	PATTERNS	Mark	SYNC.	SAE J595					CA T13					ECE R65				
					RED	AMBER	BLUE	WHITE	RED	AMBER	BLUE	RED	AMBER	BLUE	RED	AMBER	BLUE		
1	1	Single Flash 75FPM sim. Phase1	A	yes	Class 1	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C				
	2	Single Flash 75FPM sim. Phase2		yes	Class 1	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C				
	3	Single Flash 75FPM Alt.		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C			
2	4	Single Flash 120FPM sim. Phase1	B	yes	Class 1	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C				
	5	Single Flash 120FPM sim. Phase2		yes	Class 1	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C				
	6	Single Flash 120FPM Alt.		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C			
3	7	Double Flash 75FPM sim. Phase1	A	yes	Class 1	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C				
	8	Double Flash 75FPM sim. Phase2		yes	Class 1	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C				
	9	Double Flash 75FPM Alt.		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C			
4	10	Double Flash 120FPM sim. Phase1	B	yes	Class 1	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	Class 1	Class 1	Class 1				
	11	Double Flash 120FPM sim. Phase2		yes	Class 1	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	Class 1	Class 1	Class 1				
	12	Double Flash 120FPM Alt.		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C			
5	13-Default	Quad Flash 75FPM sim. Phase1	A	yes	Class 1	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C				
	14	Quad Flash 75FPM sim. Phase2		yes	Class 1	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C				
	15	Quad Flash 75FPM Alt.		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C			
6	16	Quad Flash 150FPM sim. Phase1	C	yes	Class 1	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C				
	17	Quad Flash 150FPM sim. Phase2		yes	Class 1	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C				
	18	Quad Flash 150FPM Alt.		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C			
7	19	Triple 75FPM sim. Phase1	A	yes	Class 1	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C				
	20	Triple 75FPM sim. Phase2		yes	Class 1	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C				
	21	Triple 75FPM Alt.		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C			
8	22	Quint Flash 150FPM sim. Phase1	C	yes	Class 1	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C				
	23	Quint Flash 150FPM sim. Phase2		yes	Class 1	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C				
	24	Quint Flash 150FPM Alt.		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C			
9	25	Steady - Single		NO	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
10	26	Steady Burn		NO	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
11	27	Modulation	N/A	NO	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
12	28	2 Double Flash, 2 Triple Alt.		NO	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
13	29	4 Single Flash, 2 Quad Flash Alt.		NO	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				

Warranty

Manufacturer Limited Warranty Policy:

Manufacturer warrants that on the date of purchase this product will conform to Manufacturer's specifications for this product (which are available from the Manufacturer upon request). This Limited Warranty extends for Sixty (60) months from the date of purchase.

DAMAGE TO PARTS OR PRODUCTS RESULTING FROM TAMPERING, ACCIDENT, ABUSE, MISUSE, NEGLIGENCE, UNAPPROVED MODIFICATIONS, FIRE OR OTHER HAZARD; IMPROPER INSTALLATION OR OPERATION; OR NOT BEING MAINTAINED IN ACCORDANCE WITH THE MAINTENANCE PROCEDURES SET FORTH IN MANUFACTURER'S INSTALLATION AND OPERATING INSTRUCTIONS VOIDS THIS LIMITED WARRANTY.

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Product Returns:

If a product must be returned for repair or replacement*, please contact our factory to obtain a Return Goods Authorization Number (RGA number) before you ship the product to Code 3®, Inc. Write the RGA number clearly on the package near the mailing label. Be sure you use sufficient packing materials to avoid damage to the product being returned while in transit.

*Code 3®, Inc. reserves the right to repair or replace at its discretion. Code 3®, Inc. assumes no responsibility or liability for expenses incurred for the removal and /or reinstallation of products requiring service and/or repair.; nor for the packaging, handling, and shipping; nor for the handling of products returned to sender after the service has been rendered.



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