



CODE3 MR24Q-XXXX Multi-Mount Directional LED Instruction Manual

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CODE3 MR24Q-XXXX Multi-Mount Directional LED



Product Information

The Multi-Mount Directional LED is an emergency warning device that requires proper installation, operator training, and maintenance to ensure the safety of emergency personnel and the public. This product must be

properly grounded to prevent high current arcing that can cause personal injury and/or severe vehicle damage, including fire. The device is intended for use by authorized personnel only, and the user is responsible for understanding and obeying all laws regarding emergency warning devices.

Specifications

- **Size:** MR6X – 4.3 x 0.7 x 0.9; MR6MC-XX – 5.1 x 0.7 x 1.1; MR24Q-XXXX
- **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:**

Installation and Mounting

The Multi-Mount Directional LED can be installed using one of the following methods:

- Bezel Mount
- Adhesive Mount
- Edge Mount
- Permanent Mount

Wiring Instructions

The wiring instructions for the Multi-Mount Directional LED are as follows:

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

Product Usage Instructions

Before using the Multi-Mount Directional LED, read all instructions carefully and ensure that you have understood the safety information contained in the manual. Proper installation, operator training, and maintenance are essential to ensure the safety of emergency personnel and the public.

Follow these steps to use the Multi-Mount Directional LED:

1. Ensure that the device is properly installed using one of the recommended methods.
2. Check that all features of the device work correctly before use.
3. Ensure that the projection of the warning signal is not blocked by vehicle components, people, vehicles, or other obstructions.
4. Remember that 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.
5. Understand and obey all laws regarding emergency warning devices. Check all applicable city, state, and

federal laws and regulations before use.

Exercise caution when working with live electrical connections. If you have any questions or concerns about using the Multi-Mount Directional LED, consult the user manual or contact the manufacturer for assistance.

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

WARNING!

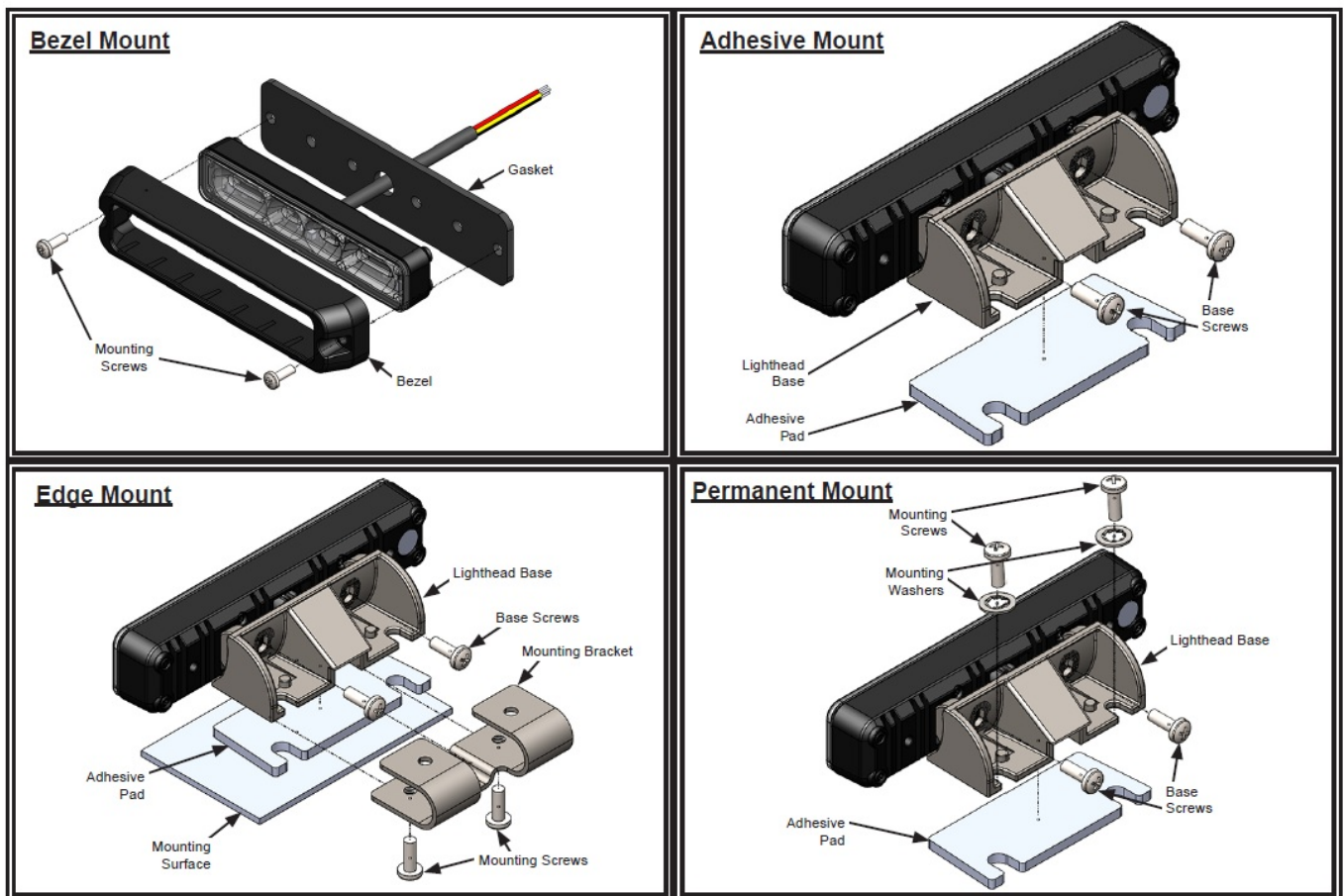
Failure to install or use this product according to manufacturer's recommendations may result in property damage, serious injury, and/or death to those you are seeking to protect! Do not install and/or operate this safety product unless you have read and understood the safety information contained in 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



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.

1. **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).
2. **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 individually 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

- ## Flash Patterns

[illegible][illegible]

5	21		37	5AET13 Triple 75FPM Ph1 Color 1 Synchronous Color 3	A	yes	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C
	22		38	5AET13 Triple 75FPM Ph2 Color 1 Synchronous Color 3		yes	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C
			39	5AET13 Triple 75FPM Ph1 Color 1 Alternately Color 4		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		21	40	5AET13 Triple 75FPM Ph2 Color 2 Synchronous Color 4		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		22	41	5AET13 Triple 75FPM Ph1 Color 2 Synchronous Color 4		yes	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C
6	23		42	5AET13 Triple 75FPM Ph2 Color 2 Synchronous Color 4	A	yes	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C
	23		43	5AET13 Triple 38FPM Ph1 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	24		44	5AET13 Triple 38FPM Ph2 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	25		45	5AET13 Triple 38FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4)		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		25	46	5AET13 Triple 38FPM Ph1 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)		yes	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C
7	26		47	5AET13 Quad 75FPM Ph1 Color 1 Synchronous Color 3	A	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
	27		48	5AET13 Quad 75FPM Ph2 Color 1 Synchronous Color 3		yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
			49	5AET13 Quad 75FPM Ph1 Color 1 Alternately Color 4		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		26	50	5AET13 Quad 75FPM Ph2 Color 1 Alternately Color 4		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		27	51	5AET13 Quad 75FPM Ph1 Color 2 Synchronous Color 4		yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
8	28		52-Default	5AET13 Quad 38FPM Ph1 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	E	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	29		53	5AET13 Quad 38FPM Ph2 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	30		54	5AET13 Quad 38FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4)		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	31		55	ECER65/SAE Quad 120FPM Ph1 Color 1 Synchronous Color 3		yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
	32		56	ECER65/SAE Quad 120FPM Ph2 Color 1 Synchronous Color 3		yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
9			57	ECER65/SAE Quad 120FPM Ph1 Color 1 Alternately Color 4	B	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
			58	ECER65/SAE Quad 120FPM Ph2 Color 1 Alternately Color 4		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		31	59	ECER65/SAE Quad 120FPM Ph1 Color 2 Synchronous Color 4		yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
		32	60	ECER65/SAE Quad 120FPM Ph2 Color 2 Synchronous Color 4		yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
	33		61	ECER65/SAE Quad 90FPM Ph1 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
10		34	62	ECER65/SAE Quad 90FPM Ph2 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	F	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		35	63	ECER65/SAE Quad 90FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4)		yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
			64	Modulation (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)		no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
			65	2 Double 2 Quad (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)		no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
			66	4 Single 2 Triple (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)		no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
11			67	1 Double 1 Triple 1 Quad (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	N/A	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
			68	Steady burn-Color 1 & 3		no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
12	36		69	Steady burn-Color 2 & 4		no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C

Quad-COLOR DIRECTIONAL [MR24QA-XXXX] Flash Pattern Chart

PATTERN	WIRE COLOR															PATTERN	MARK	SYMBOL	SAE J58			CA T10			ECR RES																																																																																																															
	Group 1 (Red wire)	Group 2 (Green wire)	Group 3 (Orange wire)	Group 4 (Blue wire)	Group 5 (Yellow wire)	Group 6 (Brown wire)	Group 7 (Black wire)	Group 8 (White wire)	Group 9 (Grey wire)	Group 10 (Light Blue wire)	Group 11 (Dark Blue wire)	Group 12 (Light Green wire)	Group 13 (Dark Green wire)	Group 14 (Light Yellow wire)	Group 15 (Dark Yellow wire)				Red	Amber	Blue	Red	Amber	Blue	Red	Amber	Blue																																																																																																													
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	A	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																		
2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			B	2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																
3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16					C	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100														
4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16							D	4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100												
5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16									E	5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100										
6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16											F	6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100								
7	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16													G	7	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100						
8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16															H	8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100				
9	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																	I	9	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100		
10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																			J	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
11	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																					K	11	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98
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Warranty

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Manufacturer warrants that on the date of purchase this product will conform to Manufacturer’s specifications for this product (which are avail-able 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 MODIFICA-TIONS, 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 WAR-RANTY.

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Documents / Resources



[CODE3 MR24Q-XXXX Multi-Mount Directional LED](#) [pdf] Instruction Manual
MR24Q-XXXX, MR24Q-XXXX Multi-Mount Directional LED, Multi-Mount Directional LED, Directional LED, LED