

Installation and Operation Instructions

Directional LED

Available in various color combinations, the Directional LED is a surface mount, dual color warning light that is ideal for a wide variety of auxiliary warning applications. Featuring a linear optic, 12 high intensity LEDs (6 per color), 11 flash patterns, synchronization capability and an aluminum housing with encapsulated electronics, the is an extremely bright, versatile and robust warning light.



WARNING!

Failure to install or use this product according to manufacturers 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 understand 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 you and those you are seeking to protect.
2. 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 are 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 s/he 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 during use 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 a warning signal. Never take the right-of-way for granted. It is your responsibility to be sure you can proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, or walking 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 warning signal 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.

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2	Screws
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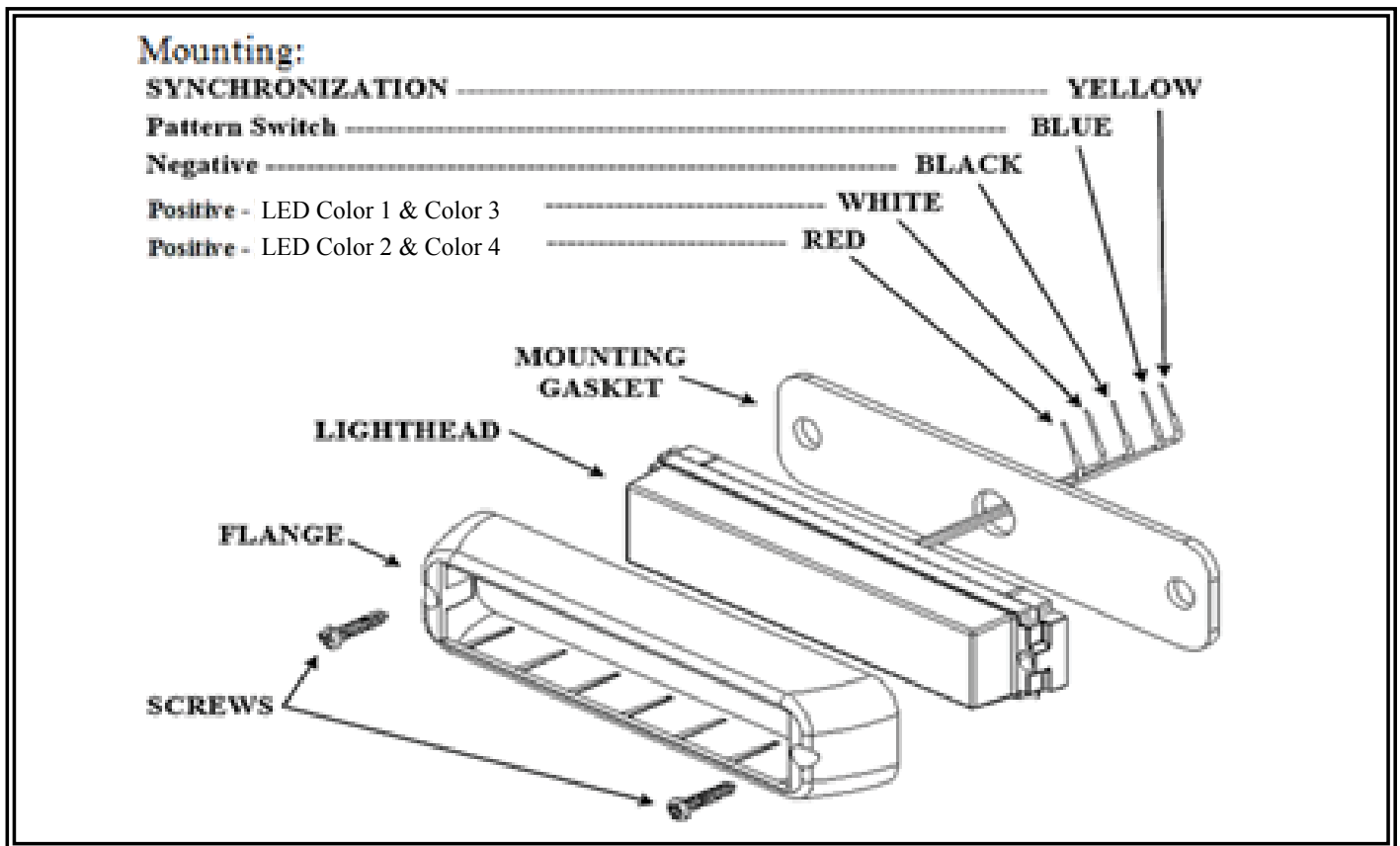
Important! This unit is a safety device and it must be connected to its own separate, fused power point to assure its continued operation should any other electrical accessory fail.

SPECIFICATIONS:

Input Voltage	12-24VDC
Work Current	0.9A Max @ DC12V 0.5A Max @ DC24V
Physical H x W x L	1.07 in x 1.48 in x 6.38 in 2.76 cm x 3.75 cm x 16.2 cm
Ship Weight	0.463 lb (0.21 Kg)

Caution: When drilling into any vehicle surface, make sure the area is free from any electrical wires, fuel lines, vehicle upholstery, etc. that could be damaged

Mounting:



Wire:

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

Phase Operation:

Phase 1 (Ph1) flashes simultaneously with Ph1
 Phase 2 (Ph2) flashes simultaneously with Ph2
 Ph1 alternates with Ph2
 (Up to 8 units can be Synchronized)

Apply BLUE TO BLACK wire:

-Less than 1 sec. for next pattern
 -Between 1-3 sec for previous pattern
 -Between 3-5 sec. for factory default (P64)
 -More than 5 sec. for turn off

Flash Pattern

						SAE J595				CAT13			ECE R65			
Pattern	LED Color 1 & 3 White Wire	LED Color 2 & 4 Red Wire	LED Color 1 & 3 LED Color 2 & 4 White and Red Wire	FLASH PATTERN	SYNC	RED	AMBER	BLUE	WHITE	RED	AMBER	BLUE	RED	AMBER	BLUE	
1	1- Default		1	SAE/T13 Single 75FPM Ph1 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	
	2		2	SAE/T13 Single 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	
	3		3	SAE/T13 Single 75FPM Ph1 Color 1 Alternately Color 3	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
	4		4	SAE/T13 Single 75FPM Ph2 Color 1 Alternately Color 3	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
		1-Default		5	SAE/T13 Single 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
		2		6	SAE/T13 Single 75FPM Ph2 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
		3		7	SAE/T13 Single 75FPM Ph1 Color 2 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		4		8	SAE/T13 Single 75FPM Ph2 Color 2 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
				9	SAE/T13 Single 75FPM (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	SAE/T13 Single 75FPM (Color 1 Synchronous Color 4) Alternately (Color 2 Synchronous Color 3)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
				11	SAE/T13 Single 75FPM (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
2	5		12	Single 375 Ph1 Color 1 Synchronous Color 3	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
	6		13	Single 375 Ph2 Color 1 Synchronous Color 3	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
	7		14	Single 375 Ph1 Color 1 Alternately Color 3	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
	8		15	Single 375 Ph2 Color 1 Alternately Color 3	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
		5		16	Single 375 Ph1 Color 2 Synchronous Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
		6		17	Single 375 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	
		7		18	Single 375 Ph1 Color 2 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
		8		19	Single 375 Ph2 Color 2 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
				20	Single 375 (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	
				21	Single 375 (Color 1 Synchronous Color 4) Alternately (Color 2 Synchronous Color 3)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
				22	Single 375 (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	
3	9		23	SAE/T13 Double 75FPM Ph1 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	
	10		24	SAE/T13 Double 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	
	11		25	SAE/T13 Double 75FPM Ph1 Color 1 Alternately Color 3	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
	12		26	SAE/T13 Double 75FPM Ph2 Color 1 Alternately Color 3	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
		9		27	SAE/T13 Double 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
		10		28	SAE/T13 Double 75FPM Ph2 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
		11		29	SAE/T13 Double 75FPM Ph1 Color 2 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		12		30	SAE/T13 Double 75FPM Ph2 Color 2 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	SAE/T13 Double 75FPM (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
				32	SAE/T13 Double 75FPM (Color 1 Synchronous Color 4) Alternately (Color 2 Synchronous Color 3)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
				33	SAE/T13 Double 75FPM (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
4	13		34	ECER65 Double 120FPM Ph1 Color 1 Synchronous Color 3	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	Class 1	Class 1	Class 1	
	14		35	ECER65 Double 120FPM Ph2 Color 1 Synchronous Color 3	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	Class 1	Class 1	Class 1	
	15		36	ECER65 Double 120FPM Ph1 Color 1 Alternately Color 3	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
	16		37	ECER65 Double 120FPM Ph2 Color 1 Alternately Color 3	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
		13		38	ECER65 Double 120FPM Ph1 Color 2 Synchronous Color 4	no	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	Class 1	Class 1	Class 1
		14		39	ECER65 Double 120FPM Ph2 Color 2 Synchronous Color 4	no	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	Class 1	Class 1	Class 1
		15		40	ECER65 Double 120FPM Ph1 Color 2 Alternately Color 4	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		16		41	ECER65 Double 120FPM Ph2 Color 2 Alternately Color 4		N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
				42	ECER65 Double 120FPM (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)		N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
				43	ECER65 Double 120FPM (Color 1 Synchronous Color 4) Alternately (Color 2 Synchronous Color 3)		N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
				44	ECER65 Double 120FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4)		N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C

Pattern	LED Color 1 & 3 White Wire	LED Color 2 & 4 Red Wire	LED Color 1 & 3 LED Color 2 & 4 White and Red Wire	FLASH PATTERN	SYNC	SAE J595				CA T13			ECE R65		
						RED	AMBER	BLUE	WHITE	RED	AMBER	BLUE	RED	AMBER	BLUE
5	17		45	SAE/T13 Triple 75FPM Ph1 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
	18		46	SAE/T13 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
	19		47	SAE/T13 Triple 75FPM Ph1 Color 1 Alternately Color 3	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	20		48	SAE/T13 Triple 75FPM Ph2 Color 1 Alternately Color 3	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	17		49	SAE/T13 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
	18		50	SAE/T13 Triple 75FPM Ph2 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
	19		51	SAE/T13 Triple 75FPM Ph1 Color 2 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	20		52	SAE/T13 Triple 75FPM Ph2 Color 2 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
			53	SAE/T13 Triple 75FPM (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
			54	SAE/T13 Triple 75FPM (Color 1 Synchronous Color 4) Alternately (Color 2 Synchronous Color 3)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		55	SAE/T13 Triple 75FPM (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	
6	21		56	SAE/T13 Quad 75FPM Ph1 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
	22		57	SAE/T13 Quad 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
	23		58	SAE/T13 Quad 75FPM Ph1 Color 1 Alternately Color 3	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	24		59	SAE/T13 Quad 75FPM Ph2 Color 1 Alternately Color 3	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	21		60	SAE/T13 Quad 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
	22		61	SAE/T13 Quad 75FPM Ph2 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
	23		62	SAE/T13 Quad 75FPM Ph1 Color 2 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	24		63	SAE/T13 Quad 75FPM Ph2 Color 2 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-DEFAULT	SAE/T13 Quad 75FPM (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
			65	SAE/T13 Quad 75FPM (Color 1 Synchronous Color 4) Alternately (Color 2 Synchronous Color 3)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		66	SAE/T13 Quad 75FPM (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	
7	25		67	ECER65/SAE Quad 120FPM Ph1 Color 1 Synchronous Color 3	yes	Class 1	Class 1	Class 1	Class 2	N/C	N/C	N/C	Class 1	Class 1	Class 1
	26		68	ECER65/SAE Quad 120FPM Ph2 Color 1 Synchronous Color 3	yes	Class 1	Class 1	Class 1	Class 2	N/C	N/C	N/C	Class 1	Class 1	Class 1
	27		69	ECER65/SAE Quad 120FPM Ph1 Color 1 Alternately Color 3	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	28		70	ECER65/SAE Quad 120FPM Ph2 Color 1 Alternately Color 3	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	25		71	ECER65/SAE Quad 120FPM Ph1 Color 2 Synchronous Color 4	yes	Class 1	Class 1	Class 1	Class 2	N/C	N/C	N/C	Class 1	Class 1	Class 1
	26		72	ECER65/SAE Quad 120FPM Ph2 Color 2 Synchronous Color 4	yes	Class 1	Class 1	Class 1	Class 2	N/C	N/C	N/C	Class 1	Class 1	Class 1
	27		73	ECER65/SAE Quad 120FPM Ph1 Color 2 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	28		74	ECER65/SAE Quad 120FPM Ph2 Color 2 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
			75	ECER65/SAE Quad 120FPM (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
			76	ECER65/SAE Quad 120FPM (Color 1 Synchronous Color 4) Alternately (Color 2 Synchronous Color 3)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		77	ECER65/SAE Quad 120FPM (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	
8		78	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	
9		79	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	
10		80	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		81	1 Double, 1 Triple, 1 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	
N/A	29	29	82	OFF	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	

Trouble Shooting

The series has been factory tested and approved. If the functions of the device fail, please check the following:

1. After connecting with the power supply, be sure that the power source end is joined correctly. Make sure there is not a short circuit.
2. Plug in the device; ensure the LED power switch is on.
3. Press the Pattern Switch to ensure "OFF" pattern is not selected. If the blue wire touches the black wire over 5 seconds, it would switch to the OFF pattern. It will light up again when the blue wire touches the black wire continuously for less than 1 second.

Manufacturer Limited Warranty and Limitation of Liability:

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), and Manufacturer further warrants that this product is free from defects in materials and workmanship. This Limited Warranty extends for thirty-six (36) months from the date of purchase. Other warranties may apply, call Manufacturer for details. Manufacturer will, at its discretion, repair or replace any product found by the Manufacturer to be defective and subject to this Limited Warranty.

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