



Installation and Operation Instructions ED3801 and ED3802 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:

Input Voltage:	12 - 24VDC	
Work Current:	ED3801X	0.8A @ 12VDC
	ED3802XX	0.8A @ 12VDC
	ED3802XXX	0.9A @ 12VDC
	ED3802XXXX	0.9A @ 12VDC
Temp. Range:	-40°C to 65°C	
	-40°F to 149°F	

Installation and Mounting:

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.



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

Note: It is recommended to isolate wires/blunt wires that were cut or not used.

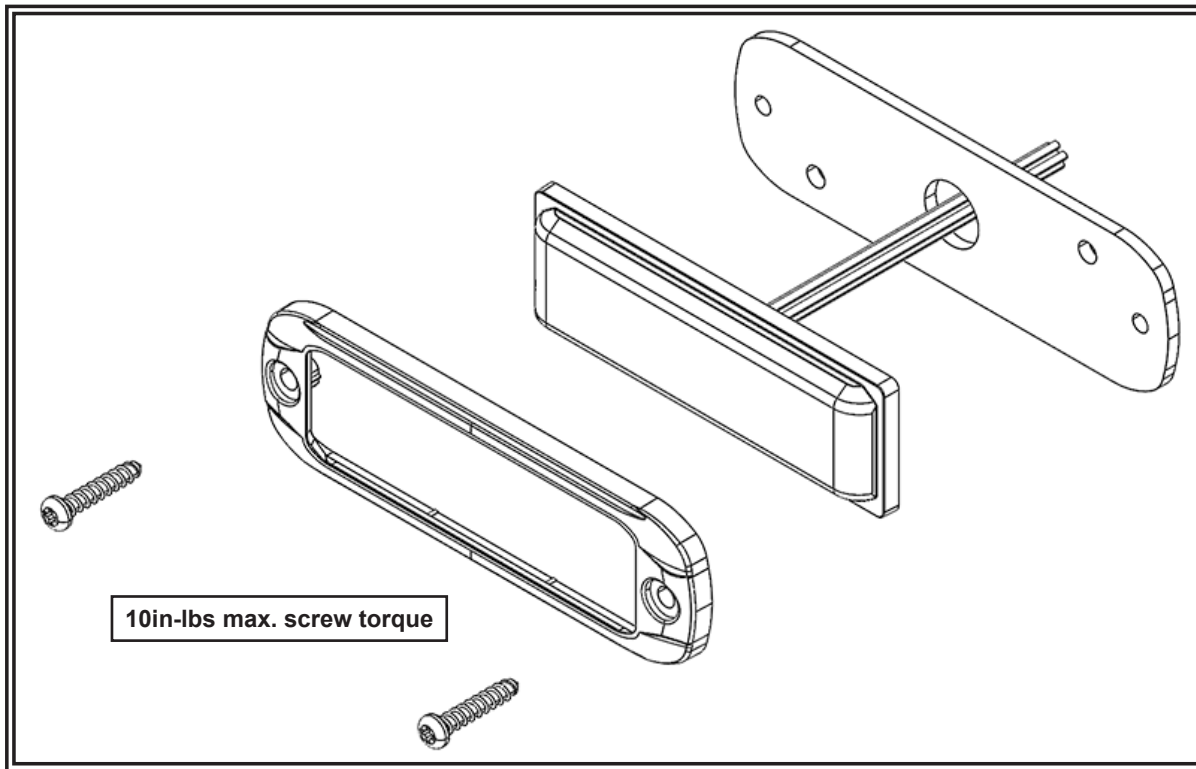


Figure 1

Wiring Instructions:

ED3801X

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

ED3802XX

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

ED3802XXX

RED Wire: Positive, Group 1 (need to add 2A fuse)
WHITE Wire: Positive, Group 2 (need to add 2A fuse)
RED & WHITE Wire: Positive, Group 3
BLACK Wire: Negative
BLUE Wire: Pattern Select to Negative
YELLOW Wire: Synchronized Function
GREEN Wire: Mode Select
(Up to 8 units can be Synchronized)

ED3802XXXX

BLACK Wire: Negative for Ground
RED Wire: Group 1 to positive (need to add 2A fuse)
GREEN Wire: Group 2 to positive (need to add 2A fuse)
ORANGE Wire: Group 3 to positive (need to add 2A fuse)
WHITE Wire: Group 4 to positive (need to add 2A fuse)
BLUE Wire: Pattern select to Negative
Dimming to positive (optional)
YELLOW Wire: Synchronized Function (up to 8 units)
RED & GREEN Wire: Group 5 to positive
RED & ORANGE Wire: Group 6 to positive
RED & WHITE Wire: Group 7 to positive
GREEN & ORANGE Wire: Group 8 to positive
GREEN & WHITE Wire: Group 9 to positive
ORANGE & WHITE Wire: Group 10 to positive
RED, GREEN & ORANGE Wire: Group 11 to positive
RED, GREEN & WHITE Wire: Group 12 to positive
RED, ORANGE & WHITE Wire: Group 13 to positive
GREEN, ORANGE, & WHITE Wire: Group 14 to positive
RED, GREEN, WHITE & ORANGE Wire: Group 15 to positive

Flash Patterns:

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 pattern
 -More than 5 sec. for pattern 12 (ED3802XX, ED3802XXX) and pattern 13 (ED3801X)

ED3801X Flash Pattern Chart

PATTERN	Flash	sim. Phase1	sim. Phase2	Alt.
1	Single Flash 75FPM	S1,C	S1,C	N/A
2	Single Flash 120FPM	S1,E1	S1,E1	N/A
3	Double Flash 75FPM	S1	S1	N/A
4	Double Flash 120FPM	S1,E1	S1,E1	N/A
5 - Default	Quad Flash 75FPM	R/B/A for S1,W for S2	R/B/A for S1,W for S2	N/A
6	Quad Flash 150FPM	R/B/A for S1,W for S2	R/B/A for S1,W for S2	N/A
7	Triple 75FPM	S1	S1	N/A
8	Quint Flash 150FPM	R/B/A for S1,W for S2	R/B/A for S1,W for S2	N/A
9	Steady - Single	N/A		
10	Steady Burn	N/A		
11	Modulation	N/A		
12	2 Double Flash,2 Triple Alt.	N/A		
13	4 Single Flash ,2 Quad Flash Alt.	N/A		

ED3802XXX Flash Pattern Chart

PATTERN GROUP	Group 1(Red line)							FLASH PATTERN	SYNC.	COMPLIES WITH
	Group 2(White line)									
	Group 3(Red & White line)									
	Mode1 Color1	Mode2 Color2	Mode3 Color3	Mode4 Color 1 & 2	Mode5 Color 1 & 3	Mode6 Color 2 & 3	Mode7 Color 1&2&3			
1	1-Default	1-Default	1-Default	1-Default	1-Default	1-Default	1-Default	Single 75FPM Ph1	yes	R/B for S1-A/W for S2
	2	2	2	2	2	2	2	Single 75FPM Ph2	yes	R/B for S1-A/W for S2
2	3	3	3	3	3	3	3	Single 120FPM Ph1	yes	R/B/A for S1-W for S2,E1
	4	4	4	4	4	4	4	Single 120FPM Ph2	yes	R/B/A for S1-W for S2,E1
3	5	5	5	5	5	5	5	Single 375FPM Ph1	yes	
	6	6	6	6	6	6	6	Single 375FPM Ph2	yes	
4	7	7	7	7	7	7	7	Double 75FPM Ph1	yes	R/B/A for S1-W for S2
	8	8	8	8	8	8	8	Double 75FPM Ph2	yes	R/B/A for S1-W for S2
5	9	9	9	9	9	9	9	Double 120FPM Ph1	yes	R/B for S1-A/W for S2,E1
	10	10	10	10	10	10	10	Double 120FPM Ph2	yes	R/B for S1-A/W for S2,E1
6	11	11	11	11	11	11	11	Triple 75FPM Ph1	yes	R/B/A for S1-W for S2,R/B for C
	12	12	12	12	12	12	12	Triple 75FPM Ph2	yes	R/B/A for S1-W for S2,R/B for C
7	13	13	13	13	13	13	13	Quad 75FPM Ph1	yes	R/B for S1-A/W for S2
	14	14	14	14	14	14	14	Quad 75FPM Ph2	yes	R/B for S1-A/W for S2
8	15	15	15	15	15	15	15	Quad 150FPM Ph1	yes	R/B for S1-A/W for S2,E1
	16	16	16	16	16	16	16	Quad 150FPM Ph2	yes	R/B for S1-A/W for S2,E1
9	17	17	17					CA T13 Single Flash 75FPM	no	S,R/B for C
10	18	18	18					CA T13 Double Flash 75FPM	no	S,R/B for C
11	19	19	19					NFPA-Quad Flash 75FPM	no	S,R/B for C
12	20	20	20					ModuFlash sim.	no	
13	21	21	21					2 Double Flash,2 Quad Flash	no	
14	22	22	22					4 Single Flash ,2 Triple Flash	no	
15	23	23	23					Autorun	no	
16	24	24	24					steady burn	no	

ED3802XX Flash Pattern Chart

Pattern	LED Color 1 & Color 3 Red line	LED Color 2 & Color 4 White line	LED Color 1 & Color 3 LED Color 2 & Color 4 Red & White line	PATTERNS	SYNC.	COMPLIES WITH
1	1-Default		1	SAE/T13 SAE/T13 Single 75FPM Ph1 Color 1 Synchronous Color 3	yes	S1,C
	2		2	SAE/T13 SAE/T13 Single 75FPM Ph2 Color 1 Synchronous Color 3	yes	S1,C
			3	SAE/T13 Single 75FPM Ph1 Color 1 Alternately Color 4	yes	
			4	SAE/T13 Single 75FPM Ph2 Color 1 Alternately Color 4	yes	
		1-Default	5	SAE/T13 Single 75FPM Ph1 Color 2 Synchronous Color 4	yes	S1,C
		2	6	SAE/T13 Single 75FPM Ph2 Color 2 Synchronous Color 4	yes	S1,C
	3	3	7	SAE/T13 Single 38FPM Ph1 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	yes	
	4	4	8	SAE/T13 Single 38FPM Ph2 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	yes	
2	5	5	9	SAE/T13 Single 38FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4)	yes	
	6		10	Single 375FPMFPM Ph1 Color 1 Synchronous Color 3	yes	
	7		11	Single 375FPMFPM Ph2 Color 1 Synchronous Color 3	yes	
			12	Single 375FPMFPM Ph1 Color 1 Alternately Color 4	yes	
			13	Single 375FPMFPM Ph2 Color 1 Alternately Color 4	yes	
		6	14	Single 375FPMFPM Ph1 Color 2 Synchronous Color 4	yes	
		7	15	Single 375FPMFPM Ph2 Color 2 Synchronous Color 4	yes	
	8	8	16	Single 187FPMFPM Ph1 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	yes	
3	9	9	17	Single 187FPMFPM Ph2 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	yes	
	10	10	18	Single 187FPMFPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4)	yes	
	11		19	SAE/T13 Double 75FPM Ph1 Color 1 Synchronous Color 3	yes	S1
	12		20	SAE/T13 Double 75FPM Ph2 Color 1 Synchronous Color 3	yes	S1
			21	SAE/T13 Double 75FPM Ph1 Color 1 Alternately Color 4	yes	
			22	SAE/T13 Double 75FPM Ph2 Color 1 Alternately Color 4	yes	
		11	23	SAE/T13 Double 75FPM Ph1 Color 2 Synchronous Color 4	yes	S1
		12	24	SAE/T13 Double 75FPM Ph2 Color 2 Synchronous Color 4	yes	S1
4	13	13	25	SAE/T13 Double 38FPM Ph1 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	yes	
	14	14	26	SAE/T13 Double 38FPM Ph2 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	yes	
	15	15	27	SAE/T13 Double 38FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4)	yes	
	16		28	ECER65/SAE Double 120FPM Ph1 Color 1 Synchronous Color 3	yes	S1,E1
	17		29	ECER65/SAE Double 120FPM Ph2 Color 1 Synchronous Color 3	yes	S1,E1
			30	ECER65/SAE Double 120FPM Ph1 Color 1 Alternately Color 4	yes	
			31	ECER65/SAE Double 120FPM Ph2 Color 1 Alternately Color 4	yes	
		16	32	ECER65/SAE Double 120FPM Ph1 Color 2 Synchronous Color 4	yes	S1,E1
5		17	33	ECER65/SAE Double 120FPM Ph2 Color 2 Synchronous Color 4	yes	S1,E1
	18	18	34	ECER65/SAE Double 60FPM Ph1 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	yes	
	19	19	35	ECER65/SAE Double 60FPM Ph2 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	yes	
	20	20	36	ECER65/SAE Double 60FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4)	yes	
	21		37	SAE/T13 Triple 75FPM Ph1 Color 1 Synchronous Color 3	yes	R/B/A for S1,W for S2
	22		38	SAE/T13 Triple 75FPM Ph2 Color 1 Synchronous Color 3	yes	R/B/A for S1,W for S2
			39	SAE/T13 Triple 75FPM Ph1 Color 1 Alternately Color 4	yes	
			40	SAE/T13 Triple 75FPM Ph2 Color 1 Alternately Color 4	yes	
6		21	41	SAE/T13 Triple 75FPM Ph1 Color 2 Synchronous Color 4	yes	R/B/A for S1,W for S2
		22	42	SAE/T13 Triple 75FPM Ph2 Color 2 Synchronous Color 4	yes	R/B/A for S1,W for S2
	23	23	43	SAE/T13 Triple 38FPM Ph1 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	yes	
	24	24	44	SAE/T13 Triple 38FPM Ph2 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	yes	
	25	25	45	SAE/T13 Triple 38FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4)	yes	
	26		46	SAE/T13 Quad 75FPM Ph1 Color 1 Synchronous Color 3	yes	R/B/A for S1,W for S2
	27		47	SAE/T13 Quad 75FPM Ph2 Color 1 Synchronous Color 3	yes	R/B/A for S1,W for S2
			48	SAE/T13 Quad 75FPM Ph1 Color 1 Alternately Color 4	yes	
7			49	SAE/T13 Quad 75FPM Ph2 Color 1 Alternately Color 4	yes	
		26	50	SAE/T13 Quad 75FPM Ph1 Color 2 Synchronous Color 4	yes	R/B/A for S1,W for S2
		27	51	SAE/T13 Quad 75FPM Ph2 Color 2 Synchronous Color 4	yes	R/B/A for S1,W for S2
	28	28	52-Default	SAE/T13 Quad 38FPM Ph1 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	yes	
	29	29	53	SAE/T13 Quad 38FPM Ph2 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	yes	
	30	30	54	SAE/T13 Quad 38FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4)	yes	
	31		55	ECER65/SAE Quad 120FPM Ph1 Color 1 Synchronous Color 3	yes	R/B/A for S1,W for S2
	32		56	ECER65/SAE Quad 120FPM Ph2 Color 1 Synchronous Color 3	yes	R/B/A for S1,W for S2
8			57	ECER65/SAE Quad 60FPM Ph1 Color 1 Alternately Color 4	yes	
			58	ECER65/SAE Quad 120FPM Ph2 Color 1 Alternately Color 4	yes	
		31	59	ECER65/SAE Quad 120FPM Ph1 Color 2 Synchronous Color 4	yes	R/B/A for S1,W for S2
		32	60	ECER65/SAE Quad 120FPM Ph2 Color 2 Synchronous Color 4	yes	R/B/A for S1,W for S2
	33	33	61	ECER65/SAE Quad 60FPM Ph1 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	yes	
	34	34	62	ECER65/SAE Quad 60FPM Ph2 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	yes	
	35	35	63	ECER65/SAE Quad 60FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4)	yes	
			64	Modulation (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	no	
9			65	2 Double,2 Quad (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	no	
10			66	4 Single,2 Triple (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	no	
11			67	1 Double 1 Triple 1 Quad (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	no	
12	36		68	Steady burn-Color 1 & 3	no	
		36	69	Steady burn-Color 2 & 4	no	

ED3802XXXX Flash Pattern Chart

PATTERN GROUP	FLASH PATTERN															SYNC		
	Group 1 (Red wire)	Group 2 (Green wire)	Group 3 (Orange wire)	Group 4 (White wire)	Group 5 (Red-Green wire)	Group 6 (Red + Orange wire)	Group 7 (Red + White Wire)	Group 8 (Green + Orange wire)	Group 9 (Green + White wire)	Group 10 (Orange + White wire)	Group 11 (Red + Green wire)	Group 12 (Red + Green + White wire)	Group 13 (Red + Orange + White wire)	Group 14 (Green + Orange + White wire)	Group 15 (Red + Green + Orange + White wire)			
1	Color 1	Color 2	Color 3	Color 4	Color 1 & 2	Color 1 & 3	Color 1 & 4	Color 2 & 3	Color 2 & 4	Color 3 & 4	Color 1, 2 & 3	Color 1, 2 & 4	Color 1, 3 & 4	Color 2, 3 & 4	Color 1, 2, 3 & 4	Single 75FPM Ph1	yes	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		Single 75FPM Ph2	yes
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		Single 120FPM Ph1	yes
2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	Single 120FPM Ph2	yes	
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		Single 375FPM Ph1	yes
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		Single 375FPM Ph2	yes
3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	Double 75FPM Ph1	yes	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		Double 75FPM Ph2	yes
	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		Double 120FPM Ph1	yes
4	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	Double 120FPM Ph2	yes	
	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		Double 375FPM Ph1	yes
	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11		Double 375FPM Ph2	yes
5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	Triple 75FPM Ph1	yes	
	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13		Triple 75FPM Ph2	yes
	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14		Triple 120FPM Ph1	yes
6	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	Triple 120FPM Ph2	yes	
	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		Triple 375FPM Ph1	yes
	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17		Triple 375FPM Ph2	yes
7	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	Quad 75FPM Ph1	yes	
	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19		Quad 75FPM Ph2	yes
	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		Quad 120FPM Ph1	yes
8	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	Quad 120FPM Ph2	yes	
	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22		Quad 375FPM Ph1	yes
																	Quad 375FPM Ph2	yes
9																NEPA-Quad Flash 90FPM	no	
																	ModuFlash sim.	no
																	2 Double Flash, 2 Quad Flash	no
10																4 Single Flash, 2 Triple Flash	no	
																	Autoturn	no
																	steady burn	no
11																steady burn	no	
																	steady burn	no
																	steady burn	no
12																steady burn	no	
																	steady burn	no
																	steady burn	no
13																steady burn	no	
																	steady burn	no
																	steady burn	no
14																steady burn	no	
																	steady burn	no
																	steady burn	no

** Default Pattern: Single Flash 75FPM Sim. Phase 1

Troubleshooting:

The ED3801X, ED3802XX, ED3802XXX, and ED3802XXXX series are factory tested and approved. If any of the functions of the device fail to operate, please check the following:

PROBLEM	QUESTION		CAUSE	SOLUTION
Product does not function when turned on	Are LEDs functioning properly?	Yes	a. Plug is loose or disconnected.	a. Reconnect plug.
			b. Poor ground connection	b. Reconnect ground.
		No	a. Power has been disconnected.	a. Check connections at the battery and plug.

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.

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