



Installation and Operation Instructions 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. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.

CONTENTS:

1	Light Head
1	Gasket
2	M4x25 Sheet metal screws

SPECIFICATIONS:

Input Voltage	12-24VDC
Work Current	ED3701 = 1.0A@12VDC
	ED3702 = 1.2A@12VDC

Wire: ED3701

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

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 the area is free from any electrical wires, fuel lines, vehicle upholstery, etc. that could be damaged

Wire: ED3702

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)

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:

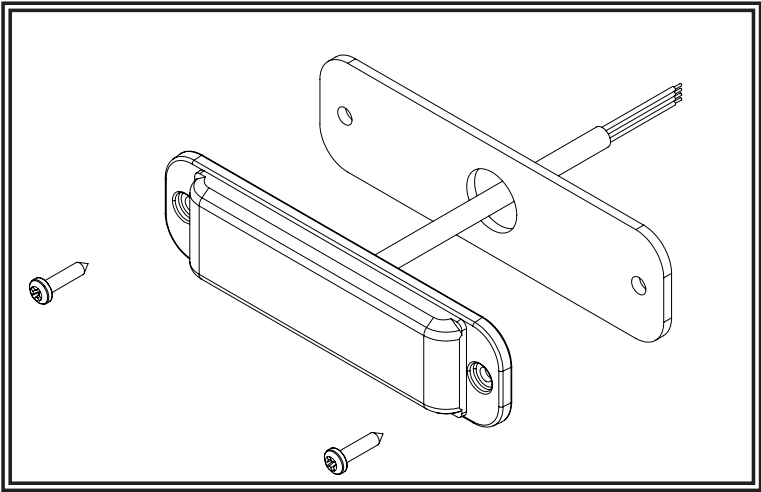
- Less than 1 sec. for next pattern
- Between 1-3 sec for previous pattern
- Between 3-5 sec. for factory default pattern
- More than 5 sec. for pattern 12 (ED3702) and pattern 13 (ED3701)

Operation Environment:

Ambient Temperature: -30 to 50°C

Mounting:

1. The ED3700 series directionals should be mounted to a flat surface or one with the least amount of curvature. The mounting location should allow the maximum visibility of the warning device to other road users, while allowing for sufficient wire access.
2. Mark drill hole locations on the mounting surface using the directional as a template.
3. Drill mounting holes using a #31[0.120"] drill bit.
4. Drill a 25/64"[10mm] hole for the wires protruding from the rear of the unit at the location. Remove any sharp edges from this hole.
5. Mount the directional along with the mounting gasket, routing the wires through the 10mm hole and use additional grommets or cable protection as necessary to protect the wiring from any sharp edges. Secure the directional to the surface using the #6 self-tapping screws.



ED3701 Series Flash Pattern Chart

Diagrama de patrones de intermitencia de la Serie ED3701

Tableau des modes de clignotement de la série ED3701

SINGLE COLOR Flash Pattern Chart/DE UN SOLO COLOR Tabla de patrones de destello/COULEUR UNIQUE Tableau des effets clignotants

Pattern	MODE	PATTERNS	Mark	SYNC.	SAE J595				CA T13			ECE R65		
					RED	AMBER	BLUE	WHITE	RED	AMBER	BLUE	RED	AMBER	BLUE
1	1	Single Flash 75FPM sim. Phase1	A	yes	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 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
2	4	Single Flash 120FPM sim. Phase1	B	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	Class 1	Class 1	Class 1
	5	Single Flash 120FPM sim. phase2		yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	Class 1	Class 1	Class 1
	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
3	7	Double Flash 75FPM sim. Phase1	A	yes	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 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
4	10	Double Flash 120FPM sim. Phase1	B	yes	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	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
5	13-Default	Quad Flash 75FPM sim. Phase1	A	yes	Class 1	Class 1	Class 1	Class 2	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 2	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
6	16	Quad Flash 150FPM sim. Phase1	C	yes	Class 1	Class 1	Class 2	Class 2	N/C	N/C	N/C	N/C	N/C	N/C
	17	Quad Flash 150FPM sim. Phase2		yes	Class 1	Class 1	Class 2	Class 2	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
7	19	Triple 75FPM sim. Phase1	A	yes	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	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
8	22	Quint Flash 150FPM sim. Phase1	C	yes	Class 1	Class 1	Class 2	Class 2	N/C	N/C	N/C	N/C	N/C	N/C
	23	Quint Flash 150FPM sim. Phase2		yes	Class 1	Class 1	Class 2	Class 2	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
9	25	Steady - Single	N/A	NO	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
11	27	Modulation		NO	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
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

