



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.

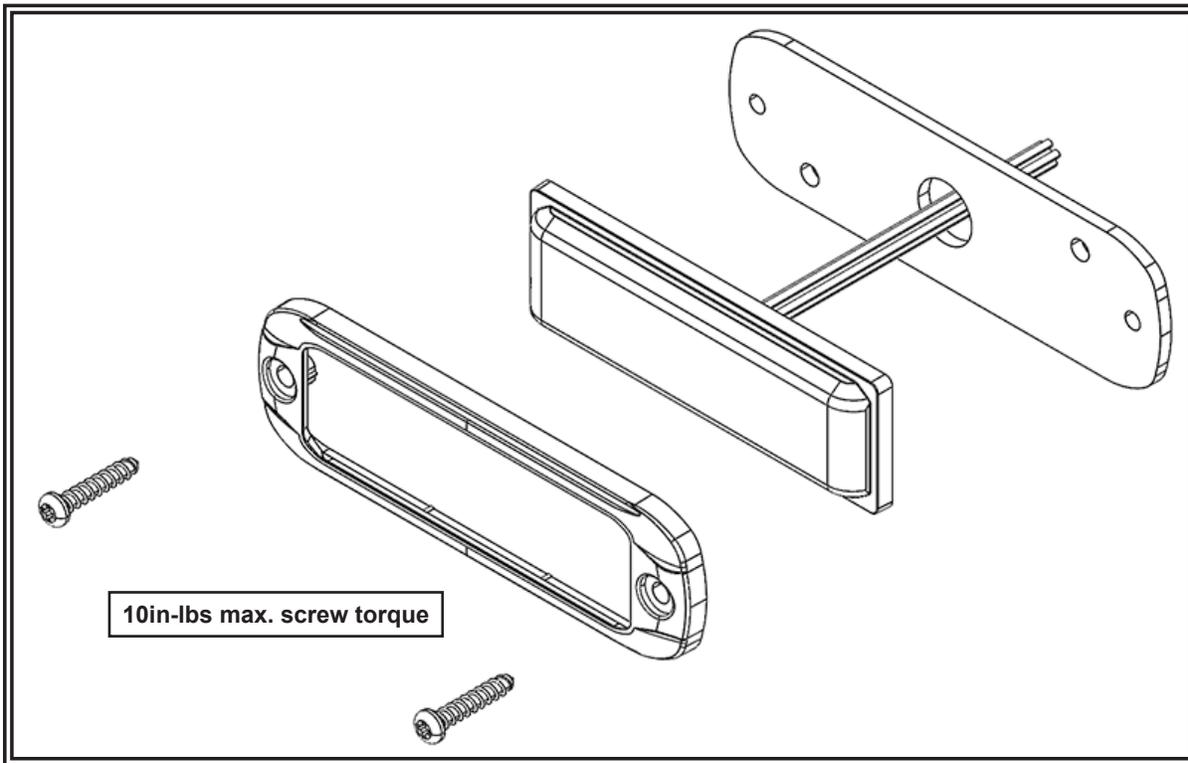


Figure 1

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 | | |

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 | |
| | 5 | 5 | 9 | SAE/T13 Single 38FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4) | yes | |
| 2 | | | 10 | Single 375FPMFPM Ph1 Color 1 Synchronous Color 3 | yes | |
| | | | 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 | |
| | 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 | |
| 3 | | | 19 | SAE/T13 Double 75FPM Ph1 Color 1 Synchronous Color 3 | yes | S1 |
| | | | 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 |
| | | 13 | 25 | SAE/T13 Double 38FPM Ph1 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4) | yes | |
| 4 | | | 26 | SAE/T13 Double 38FPM Ph2 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4) | yes | |
| | | 15 | 27 | SAE/T13 Double 38FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4) | yes | |
| | | | 28 | ECER65/SAE Double 120FPM Ph1 Color 1 Synchronous Color 3 | yes | S1,E1 |
| | | | 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 |
| | | 17 | 33 | ECER65/SAE Double 120FPM Ph2 Color 2 Synchronous Color 4 | yes | S1,E1 |
| 5 | | | 34 | ECER65/SAE Double 60FPM Ph1 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4) | yes | |
| | | 18 | 35 | ECER65/SAE Double 60FPM Ph2 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4) | yes | |
| | | 20 | 36 | ECER65/SAE Double 60FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4) | yes | |
| | | | 37 | SAE/T13 Triple 75FPM Ph1 Color 1 Synchronous Color 3 | yes | R/B/A for S1,W for S2 |
| | | | 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 | |
| | | 21 | 41 | SAE/T13 Triple 75FPM Ph1 Color 2 Synchronous Color 4 | yes | R/B/A for S1,W for S2 |
| 6 | | 22 | 42 | SAE/T13 Triple 75FPM Ph2 Color 2 Synchronous Color 4 | yes | R/B/A for S1,W for S2 |
| | | 23 | 43 | SAE/T13 Triple 38FPM Ph1 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4) | yes | |
| | | 24 | 44 | SAE/T13 Triple 38FPM Ph2 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4) | yes | |
| | | 25 | 45 | SAE/T13 Triple 38FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4) | yes | |
| | | | 46 | SAE/T13 Quad 75FPM Ph1 Color 1 Synchronous Color 3 | yes | R/B/A for S1,W for S2 |
| | | | 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 | |
| | | | 49 | SAE/T13 Quad 75FPM Ph2 Color 1 Alternately Color 4 | yes | |
| 7 | | 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 | 52-Default | SAE/T13 Quad 38FPM Ph1 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4) | yes | |
| | | 29 | 53 | SAE/T13 Quad 38FPM Ph2 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4) | yes | |
| | | 30 | 54 | SAE/T13 Quad 38FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4) | yes | |
| | | | 55 | ECER65/SAE Quad 120FPM Ph1 Color 1 Synchronous Color 3 | yes | R/B/A for S1,W for S2 |
| | | | 56 | ECER65/SAE Quad 120FPM Ph2 Color 1 Synchronous Color 3 | yes | R/B/A for S1,W for S2 |
| | | | 57 | ECER65/SAE Quad 60FPM Ph1 Color 1 Alternately Color 4 | yes | |
| 8 | | | 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 | 61 | ECER65/SAE Quad 60FPM Ph1 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4) | yes | |
| | | 34 | 62 | ECER65/SAE Quad 60FPM Ph2 (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4) | yes | |
| | | 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 | |

Quad-COLOR DIRECTIONAL [E3802XXXX] Flash Pattern Chart

| PATTERN | Group 1 (Red-White) | Group 2 (Green-White) | Group 3 (Orange-White) | Group 4 (White-White) | Group 5 (Red-Green-White) | Group 6 (Red-Orange-White) | Group 7 (Red-White-White) | Group 8 (Green-Orange-White) | Group 9 (Green-White-White) | Group 10 (Orange-White-White) | Group 11 (Red-Green-Orange-White) | Group 12 (Red-Green-White-White) | Group 13 (Green-Orange-White-White) | Group 14 (Red-Orange-White-White) | Group 15 (Red-Green-Orange-White-White) |
|---------|---------------------|-----------------------|------------------------|-----------------------|---------------------------|----------------------------|---------------------------|------------------------------|-----------------------------|-------------------------------|-----------------------------------|----------------------------------|-------------------------------------|-----------------------------------|---|
| | 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 & 3 & 4 | Color 1 & 3 & 4 | Color 2 & 3 & 4 | Color 1 & 2 & 3 & 4 |
| 4 | 7 | 7 | 7 | | | | | | | | | | | | |
| | 8 | 8 | 8 | | | | | | | | | | | | |
| | 9 | 9 | 9 | | | | | | | | | | | | |
| | 10 | 10 | 10 | | | | | | | | | | | | |
| | 11 | 11 | 11 | | | | | | | | | | | | |
| | 12 | 12 | 12 | | | | | | | | | | | | |
| | 13 | 13 | 13 | | | | | | | | | | | | |
| | 14 | 14 | 14 | | | | | | | | | | | | |
| | 15 | 15 | 15 | | | | | | | | | | | | |
| | 16 | 16 | 16 | | | | | | | | | | | | |
| | 17 | 17 | 17 | | | | | | | | | | | | |
| | 18 | 18 | 18 | | | | | | | | | | | | |
| | 19 | 19 | 19 | | | | | | | | | | | | |
| | 20 | 20 | 20 | | | | | | | | | | | | |
| | 5 | 7 | 7 | 7 | | | | | | | | | | | |
| 8 | | 8 | 8 | | | | | | | | | | | | |
| 9 | | 9 | 9 | | | | | | | | | | | | |
| 10 | | 10 | 10 | | | | | | | | | | | | |
| 11 | | 11 | 11 | | | | | | | | | | | | |
| 12 | | 12 | 12 | | | | | | | | | | | | |
| 13 | | 13 | 13 | | | | | | | | | | | | |
| 14 | | 14 | 14 | | | | | | | | | | | | |
| 15 | | 15 | 15 | | | | | | | | | | | | |
| 16 | | 16 | 16 | | | | | | | | | | | | |
| 17 | | 17 | 17 | | | | | | | | | | | | |
| 18 | | 18 | 18 | | | | | | | | | | | | |
| 19 | | 19 | 19 | | | | | | | | | | | | |
| 20 | | 20 | 20 | | | | | | | | | | | | |
| 6 | | 7 | 7 | 7 | | | | | | | | | | | |
| | 8 | 8 | 8 | | | | | | | | | | | | |
| | 9 | 9 | 9 | | | | | | | | | | | | |
| | 10 | 10 | 10 | | | | | | | | | | | | |
| | 11 | 11 | 11 | | | | | | | | | | | | |
| | 12 | 12 | 12 | | | | | | | | | | | | |
| | 13 | 13 | 13 | | | | | | | | | | | | |
| | 14 | 14 | 14 | | | | | | | | | | | | |
| | 15 | 15 | 15 | | | | | | | | | | | | |
| | 16 | 16 | 16 | | | | | | | | | | | | |
| | 17 | 17 | 17 | | | | | | | | | | | | |
| | 18 | 18 | 18 | | | | | | | | | | | | |
| | 19 | 19 | 19 | | | | | | | | | | | | |
| | 20 | 20 | 20 | | | | | | | | | | | | |

Quad-COLOR DIRECTIONAL [ED3802XXXX] Flash Pattern Chart

| PATTERN | Group 1 (Red wire) | Group 2 (Green wire) | Group 3 (Orange wire) | Group 4 (White wire) | Group 5 (Red wire) | Group 6 (Red wire) | Group 7 (Orange wire) | Group 8 (Green wire) | Group 9 (Orange wire) | Group 10 (Orange wire) | Group 11 (Orange wire) | Group 12 (Red wire) | Group 13 (White wire) | Group 14 (Red-Green-Orange-White wire) | Group 15 (Red-Green-Orange-White wire) | PATTERNS | Mark Sync | S&E 1395 | CAT 13 | ECE R65 |
|---------|-----------------------|-------------------------|--------------------------|-------------------------|-----------------------|-----------------------|--------------------------|-------------------------|--------------------------|---------------------------|---------------------------|------------------------|--------------------------|---|---|----------------------|-----------|----------|--------|---------|
| | 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 | 1, 2, 3 & 4 | | | | | |
| 14 | 22 | 22 | 22 | 22 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | Reddish-burn Color 1 | no | N/C | N/C | N/C |
| | 23 | 23 | 23 | 23 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | Reddish-burn Color 2 | no | N/C | N/C | N/C |
| | 24 | 24 | 24 | 24 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | Reddish-burn Color 3 | no | N/C | N/C | N/C |
| | 25 | 25 | 25 | 25 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | Reddish-burn Color 4 | no | N/C | N/C | N/C |
| | 26 | 26 | 26 | 26 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | Reddish-burn Color 5 | no | N/C | N/C | N/C |

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. b. Poor ground connection | a. Reconnect plug. 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.

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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This Limited Warranty defines specific legal rights. You may have other legal rights which vary from jurisdiction to jurisdiction. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages.



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