

UCD-LED 2-Color Hide Away LED Lamp

ELECTRICAL

- Input Voltage Range: 12 to 24Vdc
- Input Current: Max at 12Vdc Input = .45 Amps
Max at 24Vdc Input = .30 Amps
- Operational Temperature: -40°C to +70°C
- Polarity Protected

WIRING

RED +12VDC or +24VDC to activate (First Color Flash Pattern Activation)
BLACK Connect to Chassis GROUND
GREEN Second Color Flash Pattern Activation
BROWN Two Color Flash Pattern Activation
WHITE Synchronization

INSTALLATION

To rear-mount lamps: Remove the signal housings from the vehicle; consult the Owner's Manual for proper removal of the head light or turn signal housing. Carefully determine the desired lamp installation location. When possible, place the LED lamp insertion hole through a flat surface of the signal housing such that the lamp will be in an upright position. Before modifying the headlight or turn signal housings, verify that the lamp cable will not obstruct the re-installation of the signal housing. Drill a 1" diameter hole. Place the provided gasket over the LED lamp and insert the LED lamp into the hole. Mark the location of the mounting holes, then using a # 28 or 9/64 drill bit, drill two pilot holes. With the gasket in place, secure the LED lamp to the signal housing using the (2) #6x1/2 Pan HD thread forming screws provided.

To top-mount lamps with optional bezel: Determine mounting location on a flat surface. Drill a 1 1/8" hole. Using the bezel as a template, drill 2 pilot holes for mounting with #8 screws provided. Thread the cable and overmolded controller through the hole. Place the included oval gasket between the mounting surface and the lamp. Attach the bezel with (2) #8 screws provided.

PROGRAMMING INSTRUCTIONS

Selecting the First Color Flash Pattern

Attach the BLACK wire to ground, apply +VDC to the WHITE and RED wires simultaneously, hold for at least 2 seconds. The First Color LEDs will flash 3 times to indicate you have entered flash pattern selection mode. While maintaining power to the RED wire, remove the WHITE wire from +VDC.

Cycle Forward

Intermittently short the WHITE wire once to +VDC then release. Repeat until the desired flash pattern is selected.

Cycle Backward

Intermittently short the WHITE wire twice to +VDC in less than one second. Repeat until the desired flash pattern is selected.

Reset To Flash Pattern #1 and Set Reduced Intensity Mode

Apply +VDC to the WHITE wire for at least 3 seconds then release. The First Color LEDs will flash 2 times to indicate that you have reset the flash pattern selection to pattern # 1. Remove power from WHITE wire and the unit will operate in the currently selected flash pattern.

Note: If the unit was in normal brightness mode it will now be in reduced brightness mode. Repeat the above step to place the unit back into normal brightness mode.

Selecting the Second Color Flash Pattern

Attach the BLACK wire to ground, apply +VDC to the WHITE, GREEN and RED wires simultaneously, hold for at least 2 seconds. The Second Color LEDs will flash 4 times to indicate you have entered flash pattern selection mode. While maintaining power to the RED and GREEN wires, remove the WHITE wire from +VDC.

Cycle Forward

Intermittently short the WHITE wire (tap) once to +VDC then release. Repeat until the desired flash pattern is selected.

Cycle Backward

Intermittently short the WHITE wire (tap) twice to +VDC in less than one second. Repeat until the desired flash pattern is selected.

Reset To Flash Pattern #10 and Set Reduced Intensity Mode

Apply +VDC to the WHITE wire for at least 3 seconds then release. The Second Color LEDs will flash 2 times to indicate that you have reset the flash pattern selection to pattern # 10. Remove power from WHITE wire and the unit will operate in the currently selected flash pattern.

Note: If the unit was in normal brightness mode it will now be in reduced brightness mode. Repeat the above step to place the unit back into normal brightness mode.

Selecting the Two Color Flash Pattern

Attach the BLACK wire to ground, apply +VDC to the WHITE, BROWN and RED wires simultaneously, hold for at least 2 seconds. The First Color LEDs will flash 5 times to indicate you have entered flash pattern selection mode. While maintaining power to the RED and BROWN wires, remove the WHITE wire from +VDC.

Cycle Forward

Intermittently short the WHITE wire (tap) once to +VDC then release. Repeat until the desired flash pattern is selected.

Cycle Backward

Intermittently short the WHITE wire (tap) twice to +VDC in less than one second. Repeat until the desired flash pattern is selected.

Reset To Flash Pattern #1 and Set Reduced Intensity Mode

Apply +VDC to the WHITE wire for at least 3 seconds then release. The First Color LEDs will flash 2 times to indicate that you have reset the flash pattern selection to pattern # 1. Remove power from WHITE wire and the unit will operate in the currently selected flash pattern.

Note: If the unit was in normal brightness mode it will now be in reduced brightness mode. Repeat the above step to place the unit back into normal brightness mode.

Synchronize iLED Warning Lamps

To synchronize, first select a flash pattern and program each lamp to the same flash pattern. Unpredictable results will occur if synchronized lamps have different flash patterns selected. Connect the WHITE Sync wire to the Sync wires of up to 10 synchronizable iLED lamps. The 7x9 lamps are equivalent to 2 lamp units, when determining the number of lamps to synchronize. Do not exceed 100 feet of wire between the furthest synchronized units. For best results connect the BLACK wire to Chassis Ground.

FLASH PATTERNS - Individual Color (First or Second):

1. **NEOBE FLASH 150 FPM PHASE 0 (First Color Default)**
2. NEOBE FLASH 120 FPM PHASE 0
3. NEOBE FLASH 75 FPM PHASE 0
4. DOUBLE FLASH 250 FPM PHASE 0
5. DOUBLE FLASH 125 FPM PHASE 0
6. DOUBLE FLASH 75 FPM PHASE 0
7. SINGLE FLASH 375 FPM PHASE 0
8. SINGLE FLASH 150 FPM PHASE 0
9. SINGLE FLASH 120 FPM PHASE 0
10. **SINGLE FLASH 75 FPM PHASE 0 (Second Color Default)**
11. NEOBE FLASH 150 FPM PHASE 1
12. NEOBE FLASH 120 FPM PHASE 1
13. NEOBE FLASH 75 FPM PHASE 1
14. DOUBLE FLASH 250 FPM PHASE 1
15. DOUBLE FLASH 125 FPM PHASE 1
16. DOUBLE FLASH 75 FPM PHASE 1
17. SINGLE FLASH 375 FPM PHASE 1
18. SINGLE FLASH 150 FPM PHASE 1
19. SINGLE FLASH 120 FPM PHASE 1
20. SINGLE FLASH 75 FPM PHASE 1
21. STEADY BURN
22. MULTI FLASH 1 PHASE 0 (PATTERNS 1, 4, 7, 1)
23. MULTI FLASH 2 PHASE 0 (PATTERNS 3, 5, 8, 10)
24. MULTI FLASH 1 PHASE 1 (PATTERNS 11, 14, 17, 11)
25. MULTI FLASH 2 PHASE 1 (PATTERNS 13, 15, 18, 20)

FLASH PATTERNS - Two Colors (First and Second):

- | | | | | |
|-----------------------|----------------|--------------------|----------------|----------------------------|
| 1. NEOBE FLASH | 150 FPM | ALTERNATING | PHASE 0 | (Two Color Default) |
| 2. NEOBE FLASH | 120 FPM | ALTERNATING | PHASE 0 | |
| 3. NEOBE FLASH | 75 FPM | ALTERNATING | PHASE 0 | |
| 4. DOUBLE FLASH | 250 FPM | ALTERNATING | PHASE 0 | |
| 5. DOUBLE FLASH | 125 FPM | ALTERNATING | PHASE 0 | |
| 6. DOUBLE FLASH | 75 FPM | ALTERNATING | PHASE 0 | |
| 7. SINGLE FLASH | 375 FPM | ALTERNATING | PHASE 0 | |
| 8. SINGLE FLASH | 150 FPM | ALTERNATING | PHASE 0 | |
| 9. SINGLE FLASH | 120 FPM | ALTERNATING | PHASE 0 | |
| 10. SINGLE FLASH | 75 FPM | ALTERNATING | PHASE 0 | |
| 11. NEOBE FLASH | 150 FPM | ALTERNATING | PHASE 1 | |
| 12. NEOBE FLASH | 120 FPM | ALTERNATING | PHASE 1 | |
| 13. NEOBE FLASH | 75 FPM | ALTERNATING | PHASE 1 | |
| 14. DOUBLE FLASH | 250 FPM | ALTERNATING | PHASE 1 | |
| 15. DOUBLE FLASH | 125 FPM | ALTERNATING | PHASE 1 | |
| 16. DOUBLE FLASH | 75 FPM | ALTERNATING | PHASE 1 | |
| 17. SINGLE FLASH | 375 FPM | ALTERNATING | PHASE 1 | |
| 18. SINGLE FLASH | 150 FPM | ALTERNATING | PHASE 1 | |
| 19. SINGLE FLASH | 120 FPM | ALTERNATING | PHASE 1 | |
| 20. SINGLE FLASH | 75 FPM | ALTERNATING | PHASE 1 | |
| [NO STEADY BURN] | | | | |
| 21. MULTI FLASH 1 | | | PHASE 0 | (PATTERNS 1, 4, 7, 1) |
| 22. MULTI FLASH 2 | | | PHASE 0 | (PATTERNS 3, 5, 8, 10) |
| 23. MULTI FLASH 1 | | | PHASE 1 | (PATTERNS 11, 14, 17, 11) |
| 24. MULTI FLASH 2 | | | PHASE 1 | (PATTERNS 13, 15, 18, 20) |