TOMAR Electronics, Inc.
Clearing the Way

UC-LED Hide Away LED Lamp

ELECTRICAL

- Input Voltage Range: 12 to 24Vdc
- Input Current: Max at 12Vdc Input = .500 Amps
                 Max at 24Vdc Input = .300 Amps
- Operational Temperature: -40°C to 85°C
- Polarity Protected

Wiring:

RED   +12VDC or +24VDC to activate
BLACK   Connect to Chassis GROUND
GREEN   Secondary Flash Pattern Activation
WHITE   Synchronization

INSTALLATION

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 head light or turn signal housings verify that the lamp cable will not obstruct the re-installation of the signal housing. Drill a 1.00 inch diameter hole and insert the LED lamp into the hole, oriented in such a way that the middle of the Fresnel face is aimed at the center of the desired area of coverage. 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.

PROGRAMMING INSTRUCTIONS

Selecting Primary Flash Rate
With the WHITE wire shorted to +VDC, turn the unit on. Continue to apply +VDC to the WHITE wire for at least 2 seconds. All LEDs will flash 3 times to indicate you have entered flash rate selection mode.

Cycle Forward
Intermittently short the GREEN wire once to +VDC then release. Repeat until the desired flash rate is selected.

Cycle Backward
Intermittently short the GREEN wire twice to +VDC in less than one second. Repeat until the desired flash rate is selected.

Reset To Flash Rate #1
Apply +VDC to the GREEN wire for at least 3 seconds then release. All LEDs will flash 2 times to indicate that you have reset the flash rate selection to rate # 1. Remove power from WHITE wire and the unit will operate in the currently selected flash rate.

Selecting Secondary Flash Rate
Attach the BLACK wire to ground, apply +VDC to the WHITE, GREEN and RED wires simultaneously, hold for at least 2 seconds. All LEDs will flash 4 times to indicate you have entered flash rate selection mode. While maintaining power to the RED and White wires, remove the GREEN wire from +VDC.

Cycle Forward
Intermittently short the GREEN wire (tap) once to +VDC then release. Repeat until the desired flash rate is selected.

Cycle Backward
Intermittently short the GREEN wire (tap) twice to +VDC in less than one second. Repeat until the desired flash rate is selected.

Reset To Flash Rate #1 and Set Reduced Intensity Mode:

Apply +VDC to the GREEN wire for at least 3 seconds then release. All LEDs will flash 2 times to indicate that you have reset the flash rate selection to rate # 1.

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 lead to Chassis Ground.

Flash Patterns:

1. NEOBE 150 FPM PHASE 0 (FACTORY SETTING)
2. NEOBE 75 FPM PHASE 0
3. DOUBLE FLASH 250 FPM PHASE 0
4. DOUBLE FLASH 125 FPM PHASE 0
5. SINGLE FLASH 375 FPM PHASE 0
6. SINGLE FLASH 150 FPM PHASE 0
7. SINGLE FLASH 75 FPM PHASE 0
8. NEOBE 150 FPM PHASE 1
9. NEOBE 75 FPM PHASE 1
10. DOUBLE FLASH 250 FPM PHASE 1
11. DOUBLE FLASH 125 FPM PHASE 1
12. SINGLE FLASH 375 FPM PHASE 1
13. SINGLE FLASH 150 FPM PHASE 1
14. SINGLE FLASH 75 FPM PHASE 1
15. MULTI FLASH 1 (RATE 1, 3, 5, 1) PHASE 0
16. MULTI FLASH 2 (RATE 2, 4, 6, 7) PHASE 0
17. MULTI FLASH 1 (RATE 8, 10, 12, 8) PHASE 1
18. MULTI FLASH 2 (RATE 9, 11, 13, 14) PHASE 1