

TOMAR

TOMAR Intelligent LED Series  
LED with programmable internal FLASHER

## INSTRUCTION SHEET

TOMAR iLED™ series dual channel LED warning lamps. Feature 41 programmable flash patterns, synchronization and are available in lamp sizes 3" x 7", 4" x 6" and 7" x 9".

**WIRES**

RED +12VDC to activate  
BLACK Connect to Chassis GROUND  
YELLOW Flash Pattern Selection & Sync Line

**ELECTRICAL**

Input Voltage: 12VDC thru 28VDC  
Complete installation with wire rated for 125% of amperage draw

**MOUNTING -**

Qty 4 - #6 Screws

**WARNING: Do not seal TOMAR LED Lamps. Do not seal the LED lamp to the vehicle mounting surface. Doing so will prevent water drainage and void the lamps warranty.**

**CURRENT DRAW** - in Steadyburn Mode @ 12vdc

3x7 0.8 Amps  
4x6 0.8 Amps  
7x9 1.6 Amps

**SELECTING FLASH PATTERNS**

With the YELLOW wire shorted to +12vdc, turn the unit on. Continue to apply +12vdc to the YELLOW wire for at least 2 seconds. All LEDs will flash 3 times to indicate you have entered flash pattern selection mode. While maintaining power, remove the YELLOW wire from +12vdc and the unit will operate in the currently selected flash pattern.

**CYCLE FORWARD**

Intermittently short the YELLOW wire once to +12vdc then release.  
Repeat until the desired pattern is selected.

**CYCLE BACKWARD**

Intermittently short the YELLOW wire twice to +12vdc in less than one second.  
Repeat until the desired pattern selected.

**TO RESET PATTERN #1**

Apply +12vdc to the YELLOW wire for at least 3 seconds then release. All LEDs will flash 2 times to indicate that you have reset the flash pattern selection to pattern # 1.

**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 YELLOW wires of up to qty 10 synchronized 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.

TOMAR Electronics, Inc.

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**iLED™**

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**SELECTABLE FLASH PATTERNS**

1. Neobe 150 FPM alternating (Factory Setting)
2. Neobe 150 FPM simultaneous [Phase 0]
3. Neobe 150 FPM combo (2 cycles alt + 2 cycles sim)
4. Neobe 150 FPM California steady (half 150 FPM, half steady)
5. Neobe 150 FPM simultaneous [Phase 1]
6. Neobe 75 FPM alternating
7. Neobe 75 FPM simultaneous [Phase 0]
8. Neobe 75 FPM combo (2 cycles alt + 2 cycles sim)
9. Neobe 75 FPM California steady (half 75 FPM, half steady)
10. Neobe 75 FPM simultaneous [Phase 1]
11. Double flash 250 FPM alternating
12. Double flash 250 FPM simultaneous [Phase 0]
13. Double flash 250 FPM combo (2 cycles alt + 2 cycles sim)
14. Double flash 250 FPM California steady (half 250 FPM, half steady)
15. Double flash 250 FPM simultaneous [Phase 1]
16. Double flash 125 FPM alternating
17. Double flash 125 FPM simultaneous [Phase 0]
18. Double flash 125 FPM combo (2 cycles alt + 2 cycles sim)
19. Double flash 125 FPM California steady (half 125 FPM, half steady)
20. Double flash 125 FPM simultaneous [Phase 1]
21. Single flash 375 FPM alternating
22. Single flash 375 FPM simultaneous [Phase 0]
23. Single flash 375 FPM combo (2 cycles alt + 2 cycles sim)
24. Single flash 375 FPM California steady (half 375 FPM, half steady)
25. Single flash 375 FPM simultaneous [Phase 1]
26. Single flash 150 FPM alternating
27. Single flash 150 FPM simultaneous [Phase 0]
28. Single flash 150 FPM combo (2 cycles alt + 2 cycles sim)
29. Single flash 150 FPM California steady (half 150 FPM, half steady)
30. Single flash 150 FPM simultaneous [Phase 1]
31. Single flash 75 FPM alternating
32. Single flash 75 FPM simultaneous [Phase 0]
33. Single flash 75 FPM combo (2 cycles alt + 2 cycles sim)
34. Single flash 75 FPM California steady (half 75 FPM, half steady)
35. Single flash 75 FPM simultaneous [Phase 1]
36. Neobe 150 FPM Steady Flicker
37. Neobe 75 FPM Steady Flicker
38. Steady burn
39. Multi flash 1 (Patterns 1, 12, 21, 2)
40. Multi flash 2 (Patterns 6, 17, 26, 32)
41. Demo Mode (sequences through patterns # 1 - # 38 )

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