

TOMAR

IS0770A-01
07-10-2020

RECT-13LS-x 4-wire Mini LED Series Operational and Programming Instructions

The TOMAR iLED™ Mini RECT-13LS-x 4-wire series LED warning lamps feature 25 programmable flash rates and can be synchronized with any of the TOMAR iLED™ family of LED warning lamps. (x = LED color)

TORQUE NOTE: Max Torque 6 in-lbs. Use torque-controlled driver or wrench when installing lamp.

Wires and Functions

RED	+12VDC/+24VDC
BLACK	Connect to chassis GROUND
YELLOW	Sync/Enter Programming Mode/Pattern Select
BLUE	Secondary Mode

Electrical

Input Voltage +12VDC/+24VDC
Installation to be completed with wire rated for 125% of amperage draw.
2.5 amp in-line fuse recommended.

Current draw: 0.40 amps in steady-burn mode at +12VDC
0.20 amps in steady-burn mode at +24VDC

Selecting Flash Pattern: Primary Mode (YELLOW wire)

Apply +12VDC/+24VDC to the YELLOW wire and RED power wire at the same time. All LEDs will flash 3 times to indicate you have entered programming mode.
Remove the YELLOW wire from +12VDC/+24VDC.
Short (TAP) the YELLOW programming wire to select the Primary flash pattern.
Note: After the unit flashes 3 times, the existing programmed Primary flash pattern will appear.

CYCLE FORWARD:

Intermittently short (TAP) the YELLOW wire once to +12VDC/+24VDC, then release.
Repeat until the desired flash rate is selected.

CYCLE BACKWARD:

Intermittently short (TAP) the YELLOW wire twice to +12VDC/+24VDC in less than one second.
Repeat until the desired flash rate is selected.

To RESET to flash rate #1 (Factory Default) and set for DIM flash mode:

RECT-13LS-x 4-wire Mini LED Series Operational and Programming Instructions

While still in programming mode, apply +12VDC/+24VDC to YELLOW wire. Hold for approximately 3 seconds. All LEDs will flash 2 times. Release the YELLOW wire to indicate you have reset the unit to flash rate #1 (factory default for Primary mode).
Note: If unit was in normal brightness mode, the unit will now be in Dim mode.
Repeat above to place unit back into normal brightness mode.

OPERATING MODE:

Disconnect YELLOW wire from power.

Restore power to unit, RED wire only.

Unit will now be in normal operation mode.

Note: In normal operation mode, do not connect the YELLOW wire to power or ground.

Selecting Flash Pattern: Secondary Mode (BLUE + YELLOW wire)

Apply +12VDC/+24VDC to the BLUE wire, YELLOW wire and RED power wire at the same time. All LEDs will flash 4 times to indicate you have entered programming mode.

Remove the YELLOW wire from +12VDC/+24VDC. Leave the BLUE wire connected to +12VDC/+24VDC.

Short (TAP) the YELLOW programming wire to select the Secondary flash pattern.

Note: After the unit flashes 4 times, the existing programmed Secondary flash pattern will appear.

CYCLE FORWARD:

Intermittently short (TAP) the YELLOW wire once to +12VDC/+24VDC, then release.

Repeat until the desired flash rate is selected.

CYCLE BACKWARD:

Intermittently short (TAP) the YELLOW wire twice to +12VDC/+24VDC in less than one second.

Repeat until the desired flash rate is selected.

To RESET to flash rate #7 (Factory Default) and SET for DIM flash mode:

While still in programming mode, apply +12VDC/+24VDC to YELLOW wire. Hold for approximately 3 seconds. All LEDs will flash 2 times. Release the YELLOW wire to indicate you have reset the unit to flash rate # 7 (factory default for Secondary mode).

Note: If unit was in normal brightness mode, the unit will now be in Dim mode.

Repeat above to place unit back into normal brightness mode.

OPERATING MODE:

Disconnect BLUE wire and YELLOW wire from power.

Restore power to unit, RED wire only.

Unit will now be in normal operation mode.

TOMAR

IS0770-00
07-10-18

RECT-13LS-x 4-wire Mini LED Series Operational and Programming Instructions

Note: In normal operation mode, do not connect the YELLOW or BLUE wire to power or ground.

RECT-13LS-x 4-wire Mini LED Series Operational and Programming Instructions

Synchronizing RECT-13LS lamps

First, select a flash pattern/rate and program each lamp to the same rate.

One flash pattern can be programmed for the Primary mode, and one for the Secondary mode. Either or both modes (Primary or Secondary) can be programmed for DIM or normal brightness operation.

If alternating lamps are desired, program one lamp to PHASE 0 and the second lamp to PHASE 1. See Flash Patterns below.

To synchronize lamps in Primary mode, connect all YELLOW wires together to a maximum of 10 RECT-13LS4 units, at a maximum distance of 100 feet of wire between the two furthest units. For best results connect the BLACK wire to chassis GROUND.

Note: When synchronizing lamps, YELLOW wire is for Sync mode only. Do not connect the YELLOW wires to power or ground.

To synchronize Secondary wire patterns, connect the BLUE wires to a switch. The Secondary wire pattern will override the Primary wire pattern when the BLUE wire is tied to +12VDC/+24VDC.

Switch Operation: Switch to +12VDC/+24VDC.

When the switch is activated, + 12VDC/+24VDC will be applied to the BLUE wires, and the pre-programmed Secondary wire pattern will now be selected and override the Primary wire pattern.

When the switch is OFF (no voltage to the BLUE wires), the pre-programmed Primary wire pattern will now be selected.

RECT-13LS-x 4-wire Mini LED Series Operational and Programming Instructions

Flash Patterns

1. NEOBE FLASH 150 FPM PHASE 0 (FACTORY DEFAULT – PRIMARY)
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 ** (FACTORY DEFAULT – SECONDARY)

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 STATE

22. MULTI FLASH 1 (RATE 1, 4, 7, 1) PHASE 0
23. MULTI FLASH 2 (RATE 3, 5, 8, 10) PHASE 0

24. MULTI FLASH 1 (RATE 11, 14, 17, 11) PHASE 1
25. MULTI FLASH 2 (RATE 13, 15, 18, 20) PHASE 1

26. DEMO

** = CA Title 13 compliant