

SEQUENCE FUNCTIONS
Three relay controller functions

1. US standard, Green, to Yellow, to Red and back to Green. Switch setting 1 and wiring diagram A.
2. EUR, Red, to Red + Yellow, to Green, to yellow, to Red. Switch setting 2 and diagram A.
green trim pot controls RED & Green lights, red pot the RED/YELLOW, yellow pot, YELLOW lite.
3. Early US, Green, to Yellow, to Red back to Yellow, to Green. Switch setting 3 and diagram A.
4. Green, to Green flash, to Red, and back to Green. Use as Arrow to flashing arrow. Use switch setting 4 and wiring diagram B.
5. Hand-Man crossing signal with counter only. Use switch setting 5 and wiring diagram F
6. Hand-Man crossing signal with countdown counter plus traffic light controller. Switch setting 6 and wiring diagram W.
7. Single light flashing. Adjustable flash rate with Red & Gr. pot., switch setting 17 and diagram C.
8. Two light alternating flashing, adjust flash rate both lights with Red pot. Use switch setting 7 and wiring diagram B. Uses: RR grade crossing, hazardous intersection warning.
9. Two light alternating flashing with independent flash rate of each light with Green and Red pots. Use switch setting 20 and wiring diagram B.
10. Early US, Green, to Green + Yellow, to Red and back to Green. switch setting 15, diagram A.
11. Three light cascading cycle, Red, Yellow and Green. Each light remains ON until the cycle is complete as in a Turn Signal. Set cycle speed with green pot. Use switch setting 18, and diagram A
12. Three relay controller with traffic light and walk, don't walk control. No flashing of don't walk Use switch setting 1 and diagram J.
13. Random flashing with equal color flash rate, timing controlled by red pot Use switch setting 60 and wiring diagram A.
14. Red, to flashing green, to steady green, to yellow, back to red. Green pot controls green flash, Red pot controls steady red & green. Use switch setting 30 and diagram A. Old Canadian sequence.
15. Old style walk, don't walk with red light. Walk, to flashing don't walk, to steady don't walk + Red light, back to walk. Use switch setting 33, diagram. P
16. UK Pelican crossing. Green pot controls Red & Green lite, yellow pot controls steady Yellow, and red pot controls flashing Yellow. Use switch setting 35 and wiring diagram A.
17. Green, Green + Red, Red. Green pot controls Green light, yellow pot controls Green + Red and red pot controls Red light. Use wiring diagram B and switch setting 36.
18. Red, to Yellow, to Green and back to Red. Add a note if you intend to use as a three light tree for race starting and we will add leads and a NC starting switch to your order. Use switch setting 26

- and wiring diagram A.
19. "Walk, don't walk" signal only no traffic light with flashing "don't walk", use switch setting 38 and diagram E. Green pot controls "walk" time, Yellow pot controls "don't walk" flash time, Red pot controls "don't walk steady time.
 20. Red, to Red + Amber, to Green, to flashing Green, to Amber, Use diagram A and switch setting 19.
 21. Green, to Yellow, to Red, each ON and OFF one at a time then all ON at once then OFF. Switch setting 41, diagram A.
 22. Red, to Yellow, Yellow with flashing Red, to Green with flashing Red, to Red. Switch. setting 42, diagram A
 23. UK RR crossing signal. Yellow, to Red + Red, to alternating flashing Red. Green timing pot sets alternating speed. Yellow pot sets yellow light ON time. Use setting 52 and wiring diagram A.
 24. Red, to flashing Yellow, to Green, to no flash Yellow, back to Red. Part or all can be arrows. Use switch setting 22 and wiring diagram K.
 25. Green, to Red, to flashing Red, to Yellow, to flashing Yellow, Use switch setting 44 and wiring diagram A.
 26. Red, to Green, to flashing Green, back to Red. Use switch setting 56, wiring diagram A.

Four relay controller functions

1. Green, to Yellow steady W/relay 4 flashing, to Red W/relay 4 steady and back to Green. Use this sequence for traffic light control with walk, and flashing don't walk signals. Use switch setting 8 and wiring diagram D.
2. Same as number above except EUR traffic light switching Red+Yellow. Use switch setting 9.
3. Green, to Red, to Yellow, Yellow + relay 4 and back to Green. Use switch setting 12 and use diagram D.
4. Green, to Yellow, to relay 4, to Red and back to Green. Relay 4 can be an arrow or another light. Use switch setting 13 and wiring diagram D.
5. Green, to Yellow + relay 4, to Red + relay 4 and back to Green. Relay 4 can be a sign, arrow or light. Use switch setting 16 and wiring diagram D.
6. Green, to Yellow, to Red, to light 4 plus Red, to flashing light 4 plus Red, back to Green. Use switch setting 21, diagram K Light 4 can be a light or arrow.
7. All lights turn on at the start, then turn off one at a time. As in formula 1 starting lights. Use switch setting 23, diagram K. Timing set by red control only.
8. Two light, Red and Green. Old New York Style sequence 3 or four direction. 1. Red, north & south, Green east & west. 2. Red all directions, Green east & west. 3. Green, north & south, Red east & west. 4. Red all directions, Green north & south. Sequence repeats. Switch setting 29, diagram N.
9. Relay 4, Relay 4 flashing, Green, Yellow, Red. Switch setting 32 diagram K

10. Sequence for a four light arrow or arrow plus light operation. Flashing Yellow arrow, steady Yellow arrow, steady Red arrow, steady Green arrow, steady Yellow arrow, steady Red arrow, repeat. Colors can be changed and lights and arrows mixed. Switch setting 34, and wiring diagram K. Change colored wires from controller to desired lights or arrows.
11. Red, Green arrow, Yellow arrow, Relay #4, light or arrow. Switch setting 39, wiring diagram K
12. Red north & south + Green east & west, Red flashing east & west + steady Red north & south + steady Green east & west, Red steady east & west + steady Green north & south, Red flashing north & south + steady Red east & west + steady Green north & south, repeats. Diagram N switch setting 40.
13. Red, to Red + Yellow, to Green, to Green + Arrow, to Yellow, repeat. Red timer pot controls Red light, Yellow pot controls Yellow light, Green pot controls Green lights. switch setting 50, diagram K.
14. Red, to Red + Arrow, to Red + Yellow + Arrow, to Green, to Yellow, and repeat. Use switch setting 51, diagram K.

Six relay controller functions

1. Full intersection control. North, south lights Red, east, west lights Green. Green to Yellow, N,S stays Red, Yellow to Red, both sides stay Red a short time then north, south goes to Green. Switch setting 10 for US or 11 UK, diagram G.
2. Full intersection control with "walk" "don't walk" signals, one or two signals. Use switch setting 10 or 11, diagram H. (No flashing "don't walk")
3. Grand Prix style staging tree. Lights five stages of lights starting at the top and working down. Each light pair remains on until the fifth pair, all turn off and starts over. Use switch setting 14, diagram I.
4. Red light + red arrow or light. Green light + green arrow or light. Green light + amber arrow or light. Green light + red arrow or light. Amber light + red arrow or light. Cycle repeats. Wiring diagram G, switch setting 28.
5. Three light with Green and Yellow arrows. Red lite steady, Red lite W/ flashing Yellow, steady Green Light W/ Steady Green arrow, steady Green lite W/flashing Yellow arrow, steady Yellow. Switch setting 25, diagram R.
6. Six light traffic light. Red Arrow 1, Green Arrow 1, Yellow Arrow 1. Red Arrow 2, Green Arrow 2, Yellow arrow 2. Switch setting 27, wiring diagram G.
7. Five light staging tree, one light on at a time. Time for lights 1, 2, and 3 set by green timer control, all three will have the same time. Light 4 set by yellow timer control and light 5 set by red timer control. Relay 6 turns ON when 5 turns OFF and can be connected another light or sign and stays ON until next race starts. Use switch setting 24 and wiring diagram M.
8. PUFFIN. Red + Green Man, to Red, to Red + Red Man, to Red + Yellow + Red Man, to Green + Red Man, to Yellow + Red Man, to Red + Red Man, to Red + Green Man. Wires on the "B" side of the circuit board are lights, on the "A" side, Man lights. Use setting 54 and diagram G.
9. PELICAN. Red + Green Man, to Red + flashing Green Man, to Yellow flashing + Green Man flashing,

to Green + Red Man, to Yellow + Red Man, to Red + Red Man, repeat. Circuit board side "B" are lights, and side "A" are Man lights. Use setting 53 and diagram G.

10. Six light staging tree. Each light turns ON and stays ON until all are ON then all OFF. Be sure to state on order for race starting light tree and we will modify controller and add a NC switch to your order for single cycle operation. Use switch setting 58 and wiring diagram M.
11. Three, two light RR signal. One Red and one Green light per panel. Sequence is Lite 1 Red, Lite 2 Red, Lite 3 Green. to Lite 1 Red, Lite 2 Green, Lite 3 Red. To Lite 1 Green, to Lite 2 Red, to Lite 3 Red. Use Switch setting 63, wiring diagram BB
12. Round RR signal with four double lights, Green, Yellow, White (clear), Red. One white on top and one White on bottom of circle. Sequence is Green+top White, Green+flashing bottom White, Green +bottom White, Flashing Green, Green, Yellow+top White, Yellow+ flashing bottom White, Yellow +White, Yellow, White, Red+top White, Red. Use switch setting 57 and wiring diagram RR.

If you do not see the switch setting diagram shown by the wiring diagram you are going to use, see the page 12 for the additional diagrams.

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