Signal Timer with 4 Outputs USER Manual

Version: Nov_2025

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Operating Modes Overview:

First: What is a 'Sequence' ?
Simply put the sequence is a comma separated list of output commands. The default 'Sequence' loaded into the Signal Timer is "1,2,3,4". This means that Output#1 is turned ON first. Then Output#2 will be turned ON. (Note: Output#1 is turned OFF, when Output#2 is turned ON). This is followed by Outputs #3 & #4. Once the end of the sequence is reached, the Signal Timer starts back at the first step in the sequence. The time between each step is called 'Dwell'. The default 'Dwell' is 10 seconds. (Note: during the Sequence Review & Edit mode the dwell is fixed at 4 seconds. This allows for easy review of the current sequence) The Sequence & Dwell are easy to change. See *Programming the Relay/Output Sequence*

Sequence Review & Edit mode
The Signal Timer with 4 Outputs has several modes of operation. The *Sequence Review & Edit mode* is in effect when power is first applied to the device. It starts about 5 seconds after power is applied. The Blue ACTIVITY LED will flash ON & OFF about twice a second. During this mode each step in the defined Sequence is output for four seconds. When the end of the Sequence is reached the Signal Timer starts back at the first step in the Sequence. This mode is in effect for about 90 seconds, During this time the Sequence can be changed. See *Programming the Relay/Output Sequence*

Sequence Playback mode
Once the Sequence Review & Edit mode is complete (~90 seconds) The Signal Timer starts the sequence playback mode. The sequence repeats until power is turned OFF. What is a sequence? See: *First: What is a 'Sequence' ?* During Sequence playback Manual Control is only available if you have programmed your home's WifI network into the Signal Timer. See: [WIP]

Operating Modes Overview: (continued)

Manual Control

Manual control is avavilable if you have programmed your home's WifI network into the Signal Timer. See: [WIP]. Access the Signal Timer's web page & control the Signal Timer's Outputs. (See: picture of web page)

ARM-C0B0F1

Sequence: 1,2,3,4

New: [   ] Submit

Dwell: 10 seconds

New: [   ] Submit

Output Control: Submit
  ○ RLY#1
  ○ RLY#2
  ○ RLY#3
  ○ RLY#4
  ○ ALL OFF
Searchlight
  ○ RED
  ○ YELLOW
  ○ GREEN
Semaphore
  ○ STOP
  ○ APPROACH
  ○ CLEAR

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⌂   🛇 192.168.4.1

[User wiring Options]

[SEARCHLIGHT]

LENS
MOTOR
10V
YELLOW
GREEN

LAMP(-)
to [BLK WAGO]
25W
LAMP(+)

OUT4 [+VIN]
OUT4 n/c
OUT3 (+)
OUT3 (-)
OUT2 (+)
OUT2 (-)
OUT1 (+)
OUT1 -VIN

[SEMAPHORE]

VERTICAL MOTOR & MAGNETS
45 DEG MOTOR & MAGNETS
MOTOR & MAGNET COMMON to [BLK WAGO]

LAMP(-) to [BLK WAGO]
10V
25W
LAMP(+)

VERTICAL
45 DEGREE

OUT1 (-)
OUT1 (+)
OUT2 (+)
OUT2 (-)
OUT3 (+)
OUT3 (-)
OUT4 n/c
OUT4 (+)

(Consult factory for other configurations)

[1/2/3/4 LIGHT SIGNAL]

Lamp Common to [BLK WAGO]

L#1 25W
L#2 25W
L#3 25W
L#4 25W

OUT1 (-)
OUT1 (+)
OUT2 (-)
OUT2 (+)
OUT3 (-)
OUT3 (+)
OUT4 n/c
OUT4 (+)

RED wire to [RED WAGO]
BLK wire to [BLK WAGO]

Do NOT over tighten screw terminals!

to RED
to BLK
n/c

Relay Board Internal wiring

5VDC Module
IN a
GND
IN b
OUT (+)
OUT (-)
+5v

4x Relay Module
(-) 5vdc GND
K1 (+)
K2 (+)
K3 (+)
K4 (+)
(+) 5vdc
+5v

[---------Relay Board header---------]
GND IN1 IN2 IN3 IN4 VCC
GND #1 #2 #3 #4 VCC

Wireless Control Module

NOTES:
10/16/25   V1.0   none

[SEARCHLIGHT] / Customer Supplied

Customer Supplied 10 to 12Volts DC
[-] to BLK
[+]
7.5a

(+)
RED RED RED RED
(-)
BLK BLK BLK BLK

WAGO Connectors

NOTE: If powering more then two bulbs at once,
change fuse to 10A.

www.ACTRONIX.net

Signal Timer 4x Relays V1		
R. Hemingway	Rev 1.0	SigTmr4rly.sch
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