A.P.I

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FIRE STROBE 2000 INSTALLATION INSTRUCTIONS

I. SITE INSPECTION FOR INSTALLATION

1. Carefully inspect the area where the **Fire Strobe 2000** will be installed. Proper placement of the photoeye assembly is necessary for optimum performance.

2. The photoeye assembly must be mounted on a structural post to accommodate the height requirement of approximately 8' to 10'. The post should be strong enough to prevent accidental movement of the photoeye assembly after installation.

3. Avoid conflicts with buildings and trees that can obstruct the photoeye assembly. Careful consideration should be given in the event the approach is on a hill.The detector should be mounted accordingly.

4. **DO NOT** aim the photoeye detector in direct sunlight. This will cause the system to temporarily blind itself during the period of direct sunlight. Use the furnished P.V.C. hood to help shield the photoeye from the sunlight.

5. Note the direction from which the emergency vehicles will arrive at the scene. If the arrival is from two directions, you should use two photoeye detector heads to achieve bi-directional coverage.

II. PHOTOEYE ASSEMBLY POST

1. Fabricate and install a 2" x 2" x 8' mounting post. Attach the provided PEA assembly to the top of the post to mount the assembly with two screws. **DO NOT GLUE** the assembly. You must be able to aim the photoeye assembly in the direction of the approaching emergency traffic. Now, remove the assembly and complete the wiring as described below.

III. MOUNTING THE CABINET

1. We suggest that you mount the control cabinet directly below the post, possibly inside of the wall or fence line. This will help prevent vandalism. **Do not install control board in a box with another gate related circuit board.**

2. Remove the circuit board from the unit by removing the four screws and solder lug that hold the four corners. **Try to discharge any static that you may have built up before handling the board**.

3. Determine which of the two openings in the box will be used to run the wires into the cabinet. Run the wires through the ½ inch conduit into the bottom opening of the cabinet.

4. Mount the unit securely. Pull the cables described below into the cabinet and remount the circuit board.

IV. PULLING THE CABLES

1. Pull four cables to the control box: **P1)** use 18 awg, 2-conductor cable that runs the auxiliary 12v or 24v power supply terminals in the gate operator. .

P2) The **2- conductor shielded** cable provided in this kit to the photoeye **assembly. DO NOT use multi-conductor shielded cable or CAT 5.**

P3) use 18 awg, 2-conductor cable that connects to gate operator.

4) Pull a 14awg ground wire into the can.

V. MAKING CONNECTIONS

1. On the **photoeye assembly** remove the blue terminal block from the **two** pin connector at the bottom of the circuit board. Connect it to the 2-conductor shielded cable.
NOTE: Shield no connection , #1 SIG, #2 GND
Reinstall it on the terminal block pins.

2. Remove the terminal block from **P2** the **Four** pin connector at the bottom of the circuit board. Connect it to the 2-conductor shielded cable according to the following scheme if possible:

#1 PHOTOEYE DETECTOR (SIG to IN1 and GND to GND)
#2 PHOTOEYE DETECTOR (SIG to IN2 and GND to GND)

NOTE: **You must connect the shield of the photoeye cable to the PC board green ground wire, which is**

attached at one of the four corners of the board. And this ground must be attached to electric earth ground or Ground rod.
Reinstall it on the terminal block pins.

Note: to power the system, connect **P1)** to one end of the cable and the other to the provided 12v or 24v ac/dc auxiliary power supply terminals in the gate operator.
Please note the Pos or dc + is the inside fused terminal of P1 .

3. Ground the enclosure thoroughly. The detector contains a number of static-sensitive components that can be damaged destroyed by static discharge. The lug connected to the lower right stanchion is the point where connection to the earth ground should be made.

4. Plug in the **P1** blue terminal to the board the power, the red D6 LED near the middle of circuit board will light up when power is applied.

VI. RELAY CONFIGURATION

1. The system is provided with dual relay outputs, including common, N/O, and N/C terminals to be hooked up to the gate controller at either the relay or logic input. **Note:** The maximum rating of the **Fire Strobe 2000** relay is 150 ma, 24 VAC.

2. Remove the relay terminal block from the six pin connector at the bottom right corner of the circuit board. Connect your common, N/O-N/C gate controller input to these terminals.

VII. SWITCH CONFIGURATION

1. Acquisition delay time before operating the relay.

Factory setting

SW1=off SW2=off-----500 milliseconds
SW1=on SW2=off-----1 second
SW1=off SW2=on-----1.5 seconds
SW1=on SW2=on-----2 seconds

These times are nominal at 14hz or 840 flashes per minute. The times are shorter by about 20% at 1000 fpm and about 20% longer at 750 fpm.

2. **#3** on = **STROBEWATCH™** this new feature when turned on allows the **FIRESTROBE 2000** to look for both the Opticom emitter and the **STROBEWATCH™.** It is our new optical recognition firmware that searches for

Police and other **Emergency vehicle Dual** and **Quad** flash strobes and will operate the relay on valid signals. If you feel you are receiving false inputs turn #3 off to deactivate this feature.

3. To set relay approximate Hold-On-Time, set dip switch SW1 as follows:
   #4 on = 30minutes
   #5 on = 12 minutes
   #6 on = 6 minutes
   #7 on = 1.5 minutes
   #8 on = 3 seconds

4. An operational test of the system should be performed to ensure proper gate operation. To check the system's performance, aim an operational strobe light or handheld tester at the photoeye detector assembly. Be certain that the strobe frequency is set at 840 flashes per minute or the required frequency in your fire jurisdiction. **Note:** The D2 LED on the PC-board will start to blink as the strobe light is activated. The D2 LED will then lock on when the strobe light and the detector are synchronized. The D4 LED will light at the same time as the relay locks on. The D4 stays on as the duration of the relay-on-time set is on the dip switch SW1 #4 - #8.

5. # TESTING

Note: free Android or iphone tester app
located in the middle of the page
https://firestrobe.com/firestrobe- orderform.html

scroll down to item #6 are the APP links also see
item # 5 is a handheld Firestrobe tester $40.00

https://firestrobe.com/firestrobe-orderform.html

We recommend that you call your local fire department for a complete system test. **System should be tested monthly**.

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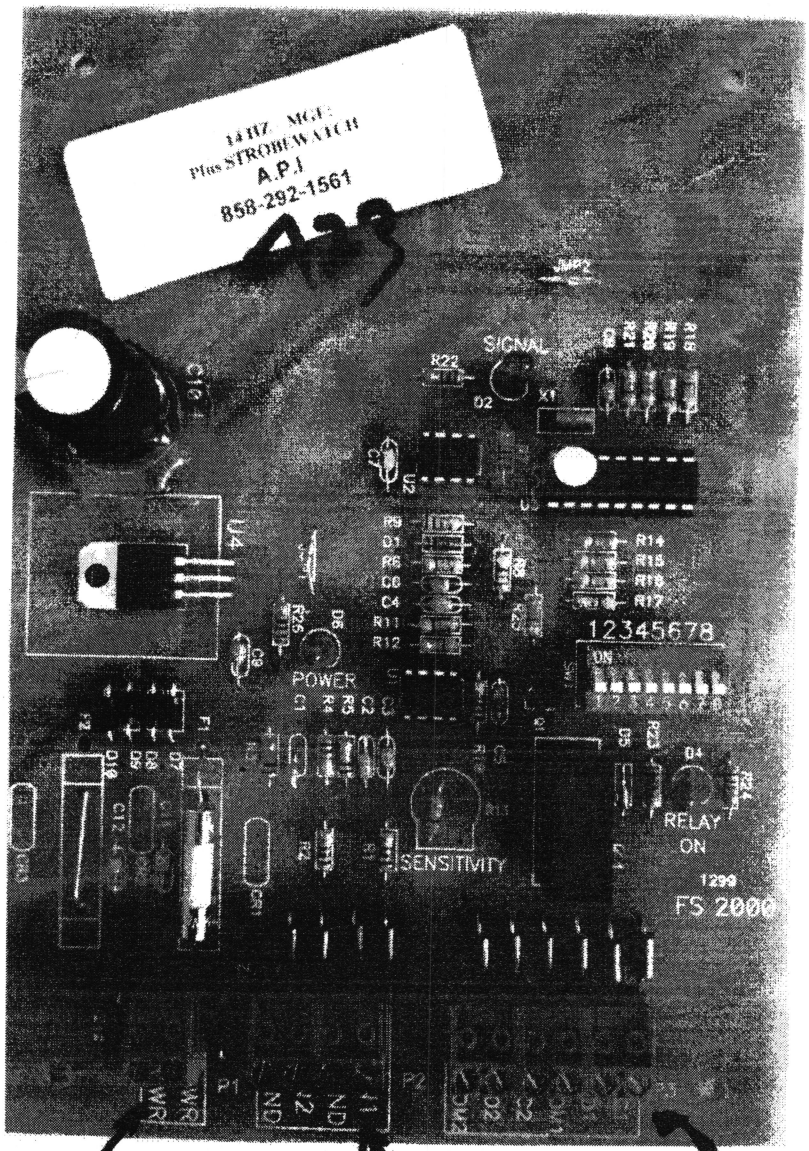

connect auxiliary operator power here 12 or 24 ac/dc note white fuse is Pos +

sheilded cable here

relay to operator here