

## FW962, FW982 Multi Candela (Horn) Strobe



**FW962 Horn strobe**

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### DESCRIPTION

The FW962 Horn Strobe and FW982 Strobe are a family of multi-candela visual and/or audible signal appliances with light sources generated from white Light Emitting Diodes (LEDs), listed according to UL 1971, UL 1638, UL 464, ULC-S525, and ULC-S526 for indoor use. The LED light source offers superior performance, including low power consumption and long operating life. Five levels of light output are selectable. The default setting is highest level. Figure 1 shows relative light outputs in horizontal and vertical dispersion from strobes mounted on walls.

The strobe appliances produce a flash rate of one flash per second over the Regulated Voltage Range. The temporal tone generated by the horn portion is designed as per ANSI and NFPA72 for standard emergency evacuation signaling requirement.

The (horn) strobe has the feature that can synchronize multiple horn and/or strobes in a complete fire alarm system.

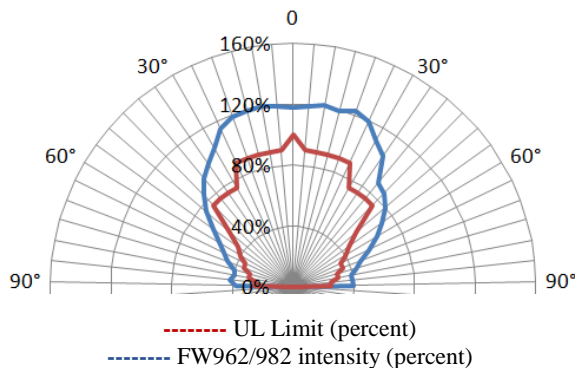


Figure 1. Horizontal and Vertical Light Outputs

### ATTENTION



The product must be used within its published specifications and properly installed, operated, and maintained, in accordance with these instructions. Users are solely responsible for determining whether a product is suitable for the user's purposes or achieves the intended results. Read the instructions carefully before using this product. Failure to comply with any of the instructions, cautions, and warnings could result in improper application, installation and/or operation of these products in an emergency situation. This could result in property damage and serious personal injury or death.

### NOTE

Do not paint this device.

Any material extrapolated from this document or from Maple Armor's instructions or other documents describing the product for use in promotional or advertising claims, or for any other use, including description of the product's application, operation, installation, and testing is the sole responsibility of the user. Maple Armor will not assume any liability for such use. In no case will Maple Armor's liability exceed the purchase price paid for a product.

### SPECIFICATION

<b>Operating Voltage</b>	16 to 33 VDC/FWR						
<b>RMS Operating Current @16 Vdc (mA)</b>		160 cd	130 cd	110 cd	70 cd	50 cd	30 cd
	FW962	162	129	87	59	52	35
<b>RMS Operating Current @16Vfwr (mA)</b>		160 cd	130 cd	110 cd	70 cd	50 cd	30 cd
	FW962	195	155	102	71	62	42
<b>Sound Level (dBA)</b>							
	FW982	182	154	102	66	58	36
<b>Sound Level (dBA)</b>	85.6 at Reverberant 97.2 at Anechoic						
<b>Effective Light (cd)</b>	160,130, 110, 70, 50, 30						
<b>Operating Temperature</b>	0° C to 49° C (32° F to 120° F)						
<b>Operating Humidity</b>	0 to 93% RH						
<b>Horn Pattern</b>	Temporal 3						
<b>Strobe Pattern</b>	1 flash per second						
<b>Wire Size</b>	12 to 18 AWG						
<b>Location</b>	Indoor wall/ceiling						
<b>Compatible Model</b>	FW951 Sync Module, FW106 FACP						

### CAUTION

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- To avoid electrocution that could result in personal injury or death, remove all sources of power and allow 10 minutes to discharge stored energy prior to installing or removing equipment. Install this device in accordance with all applicable codes and the Local Authorities Having Jurisdiction.
- Electrical supervision requires breaking the wire run at each terminal. Do not loop the signaling circuit field wires around the terminals.
- Check the manufacturer’s installation instructions for other equipment used in the system for any guidelines or restrictions on wiring and/or locating NACs and notification appliances. Some system communication circuits and/or audio circuits, for example, may require special precautions to assure electrical noise immunity (e.g., audio crosstalk).
- Check that the installed product will have sufficient clearance and wiring room prior to installing bases. Do not over tighten mounting screws as this can deform the base and may affect operation.

**INTALLATION**

1. Mount the FW900 base onto a 4x4 electrical box, see Figure 2.

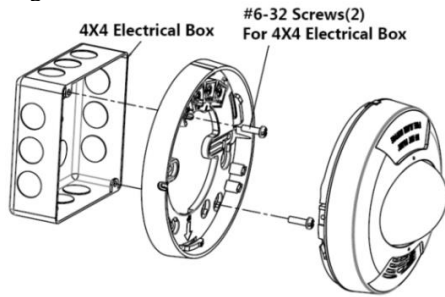


Figure 1. Base Installation

2. Set the strobe signal level to the desired setting. See Figure 3.

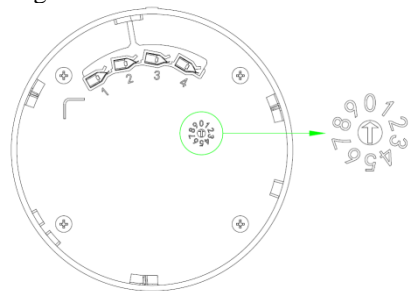
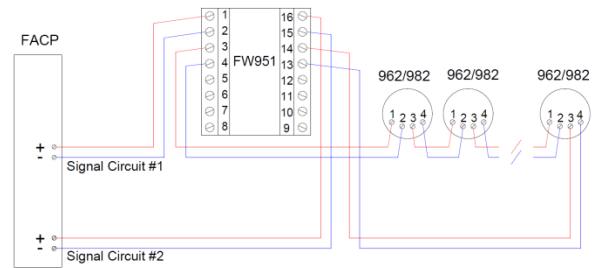


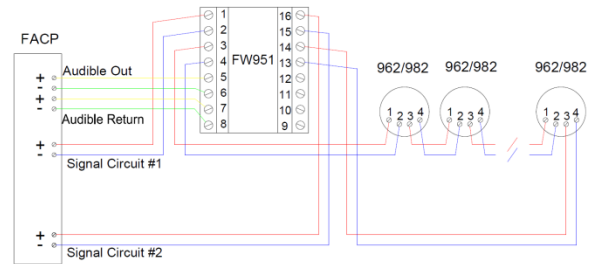
Figure 2. Candela Selector

Switch 1 for 30cd, switch 2 for 50cd, switch 3 for 70cd, switch 4 for 110cd, switch 5 for 130cd, and switch 6 for 160cd.

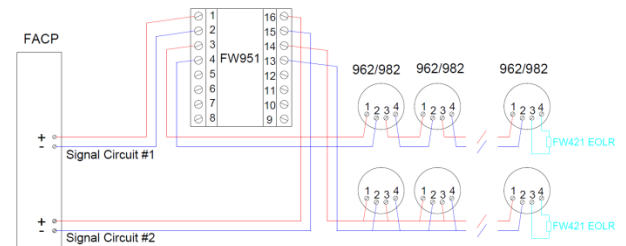
3. Connect the wires. See Figure 4 and Figure 5.



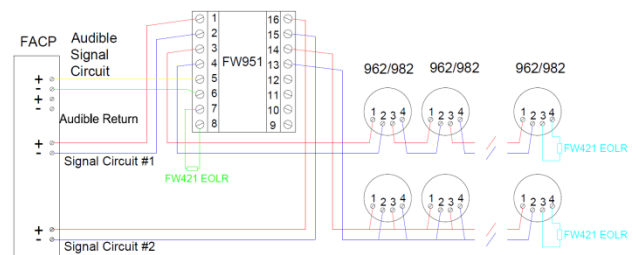
(a) Class A Circuit without Audible Silence Feature



(b) Class A with Audible Silence Feature

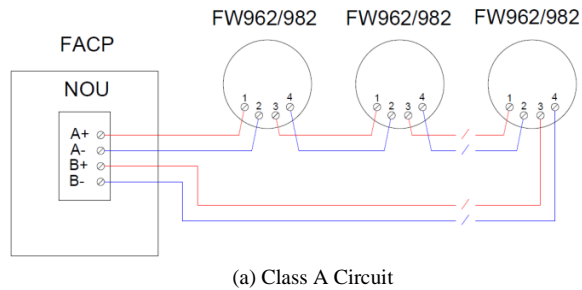


(c) Class B without Audible Silence Feature



(d) Class B with Audible Silence Feature

Figure 4 Wiring Diagram with FW951 Sync Module



### INSTALLATION - continued

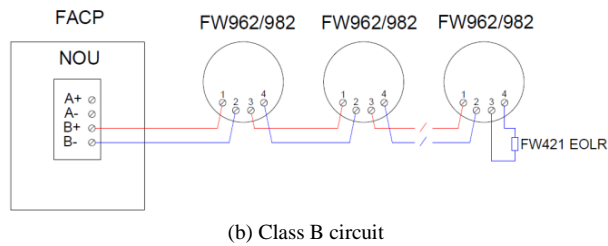


Figure 5 Wiring Diagram with FW106 FACP

4. Combine the (horn) strobe with base – Align the (horn) strobe onto the base then and twist it in clockwise.
5. Test for proper operation. Initiate this unit from the connected FACP and observe for proper operation.

### MAINTENANCE

Scheduled inspection and operational test should be carried as per requirement set out by Local Authority Having Jurisdiction.

Return the device for reparation if it fails to alarm during testing. Do not disassemble the detector without permission.