

FW961, FW971, FW981 HORN and/or STROBE SYNC MODULE



FW 961 Horn and Strobe **FW 971 Horn**

FW981 Strobe

DESCRIPTION

The FW961/971/981 Horn and/or Strobe is a family of visual and/or audible signal appliances with light sources generated from white Light Emitting Diodes (LEDs) for indoor use. The LED light source offers superior performance, including low power consumption and long operating life.

The FW961 combines both functions of horn and strobe in which two levels of light output is field selectable. The default setting is High, but where allowed, the users may select the Low setting. 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 and/or Strobe has a built-in synchronization circuit that can synchronize multiple horn and/or strobes in a complete fire alarm system. There are up to 64 Notification Appliance Circuits (NAC), networked, stand alone or interfacing with the FW951.

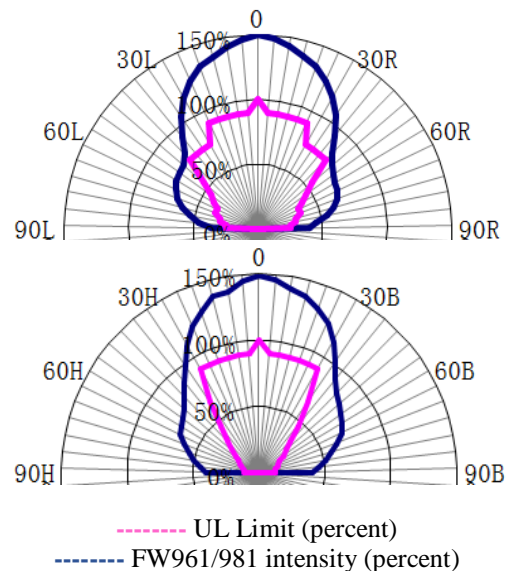


Figure 1. Horizontal and Vertical Light Outputs

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

Operating Voltage	16 - 33 VDC/VFWR			
Operating Current (mA)	FW961	DC	117	
		FWR	124	
	FW971	DC	17	
		FWR	35	
FW981	DC	75		
	FWR	75		
Sound Level (dBA)	Voltage	16V	24V	33V
	Reverberant	83.1	85.6	88.2
	Anechoic	94.3	97.2	99.2
Effective Light	50cd at default setting			
Wire Size	12 - 18 AWG			
Operating Temperature	0° C -49° C (32° F - 120° F)			
Operating Humidity	0 - 93% RH non-condensing			
Horn Pattern	Temporal tone as ANSI and NFPA72 Evacuation Signal pattern			
Strobe Pattern	1 flash per second			
Synchronization	32 NACs (Class A) or 64 NACs (Class B)			
Compatible Model	FW951 Sync Module			
Location	Indoor walls			
Compliance	UL 1971, UL 1638, UL 464 ULC S525, ULC S526			

INSTALLATION and WIRING
CAUTION

- 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 manufacturers 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.

1. Mount the base onto a 4x4 electrical box using the screws provided, see Figure 2.

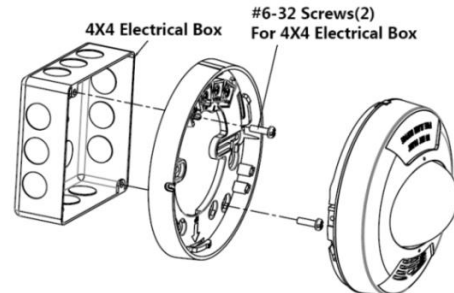


Figure 2. Base Installation

2. Set the strobe signal level to the desired settings, see Figure 3.

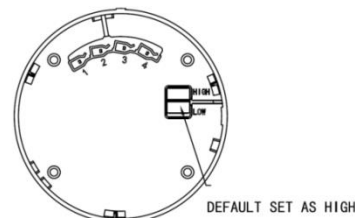
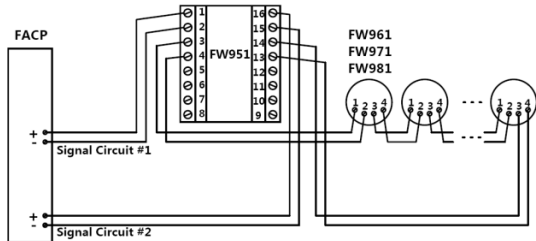


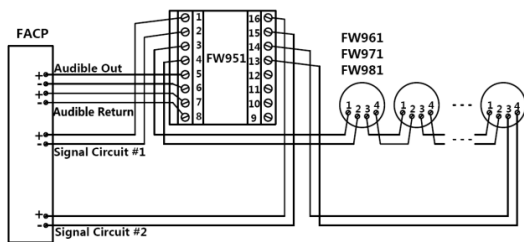
Figure 3. Candela Selector

INSTALLATION and WIRING, Continued

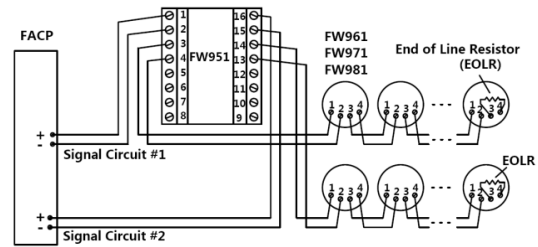
3. Connect the wires, see Figure 4.



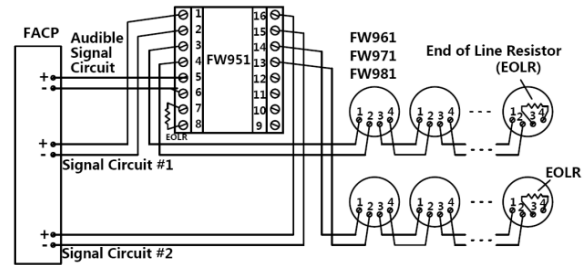
(a) Class A Circuit without Audible Silence Feature



(b) Class A with Audible Silence Feature



(c) Class B without Audible Silence Feature



(d) Class B with Audible Silence Feature

Figure 4. Single Module Wiring Diagram

4. Combine cover and base. Align the unit onto the base and twist the unit in.
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.

To maintain agency listing, do not change factory applied finishes.