

FW962R, FW962W, FW982R, FW982W Multi Candela Horn and/or Strobe



FW962R Horn Strobe



FW962W Horn Strobe



FW982R Strobe



FW982W Strobe

DESCRIPTION

The FW962R/W Horn Strobes and FW982R/W Strobes are a family of multi-candela visual and audible signal appliances with light sources generated from white LED, 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. Six levels of light output are selectable. Figure 1 shows relative light outputs in horizontal and vertical dispersion from strobes mounted on walls/ceilings.

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 appliance has the feature that can synchronize multiple horn and/or strobes in a complete fire alarm system.

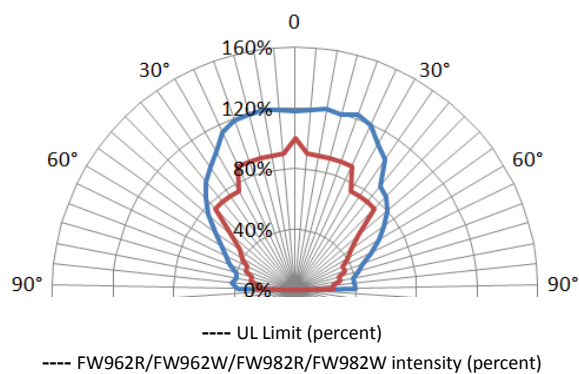


Figure 1. Horizontal and Vertical Light Outputs

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

Operating Voltage	16 to 33 VDC/FWR						
RMS Operating Current @16 Vdc (mA)		130 cd	105 cd	85 cd	50 cd	35 cd	20 cd
	FW962R FW962W	164	126	85	55	47	30
	FW982R FW982W	156	119	80	49	43	28
RMS Operating Current @16Vfwr (mA)		130 cd	105 cd	85 cd	50 cd	35 cd	20 cd
	FW962R FW962W	187	158	102	66	58	38
	FW982R FW982W	154	150	97	61	53	35
Sound Level (dBA)	Voltage	16V dc/fwr		24V dc/fwr		33V dc/fwr	
	UL Reverberant	77		81		85	
	ULC Anechoic	85		88		91	
Directional Characteristics	Horizontal Axis	Angle	OSPL (dBA)				
		0° (ref)	0 (ref)				
		± 44°	-3				
		± 54°	-6				
	± 90°	-10.5					
	Vertical Axis	Angle	OSPL (dBA)				
		0° (ref)	0 (ref)				
		± 52°	-3				
± 55°		-6					
± 90°	-12						
Effective Light (cd)	130, 105, 85, 50, 35, 20 (See Figure 3 for candela selection)						
Operating Temperature	0° C to 49° C (32° F to 120° F)						
Operating Humidity	0 to 93% RH						
Horn Pattern	Temporal 3						
Strobe Pattern	1 flash per second						
Wire Size	12 to 18 AWG						
Location	Indoor wall/ceiling						
Compatible Model	FW951 Sync Module, FW106 FACP						

- 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.

INSTALLATION

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

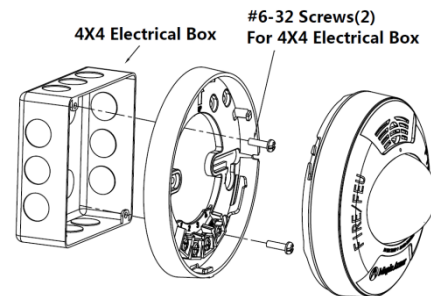
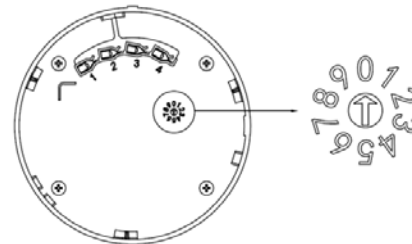


Figure 2. Base Installation

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



Switch	1	2	3	4	5	6	7	8	9	0
Candela	20	35	50	85	105	130	not used	not used	not used	not used

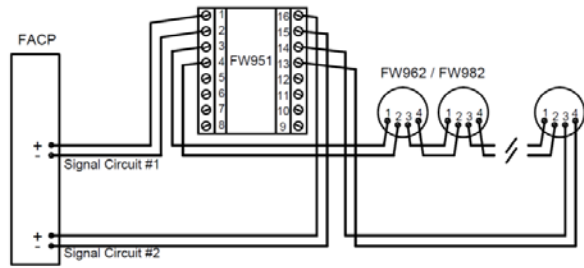
Figure 3. Candela Selector

CAUTION

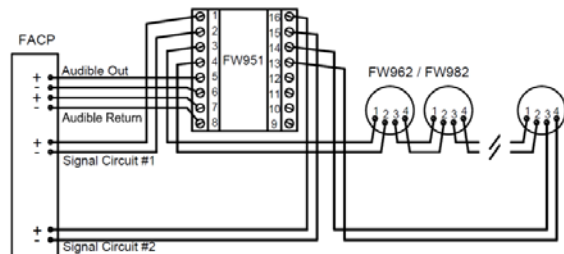
- To avoid electrocution that could result in personal injury or death, remove all sources of power and allow 10 minutes to discharge stored energy prior to installing or removing equipment. Install this device in accordance with all applicable codes and the Local Authorities Having Jurisdiction.
- Electrical supervision requires breaking the wire run at each terminal. Do not loop the signaling circuit field wires around the terminals.

INSTALLATION - continued

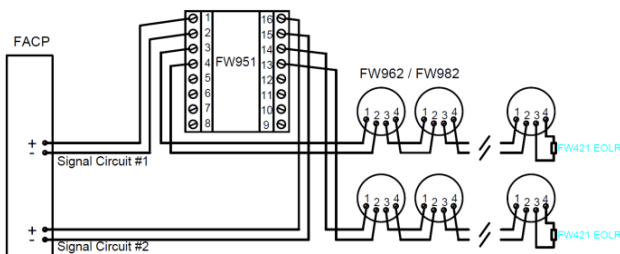
3. Connect the wires. See Figure 4 and Figure 5.



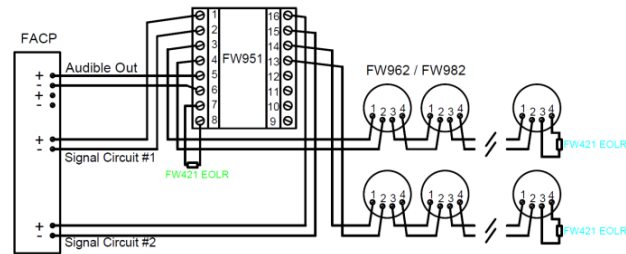
(a) Class A Circuit without Audible Silence Feature



(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

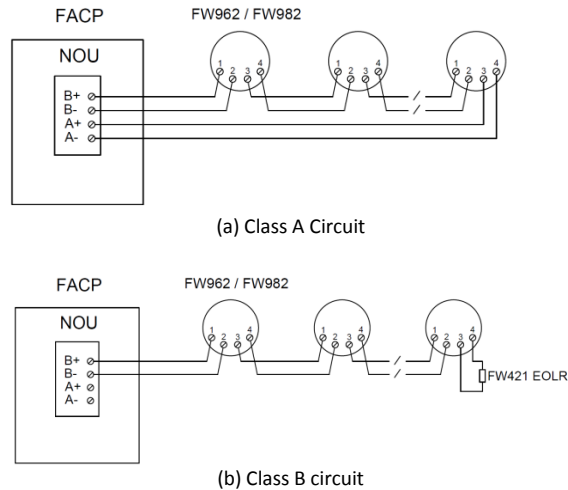


Figure 5. Wiring Diagram with FW106 FACP

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.