



# FW29 Series Horn Strobe

A family of indoor signal appliances that combine LED-based visual signals with audible alerts.



FW2961  
Horn Strobe



FW2971  
Horn



FW2981  
Strobe

## FEATURE

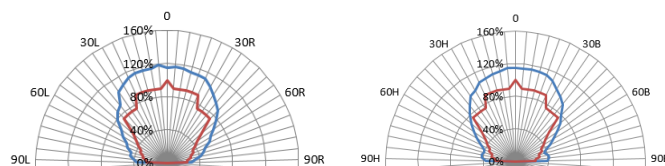
- Addressable with Maple Armor FireWatcherM control panels
- The conventional mode works within the NAC loop (NOU FW2331) or output module on SLC.
- High-intensity LED light source.
- Configurable with both panel and handheld programmer
- Adjustable LED light intensity
- Switchable buzzer tones
- Sound and light synchronization under both addressable and conventional modes with Maple Armor FireWatcherM control panels
- Synchronization under stand-alone mode (set by handheld programmer) is not available

## GENERAL

- The FW2961 Horn Strobe, FW2971 Horn, and FW2981 Strobe form a family of signal appliances that provide both visual and audible notifications. These devices utilize white LED light sources to generate their visual signals and are listed in compliance with various UL and ULC standards (UL 1971, UL 1638, UL 464, ULC-S525, and ULC-S526) for indoor use.
- Conventional and Addressable Functionality: These appliances can operate in both conventional and addressable modes, offering flexibility in system design and implementation.
- 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 a feature that can synchronize multiple horns and/or strobes in the loop (Automatic sync. Is only available with installed in the Maple Armor NOU loop).



**Agency Listings and Approvals**  
UL Listed: **S35539**



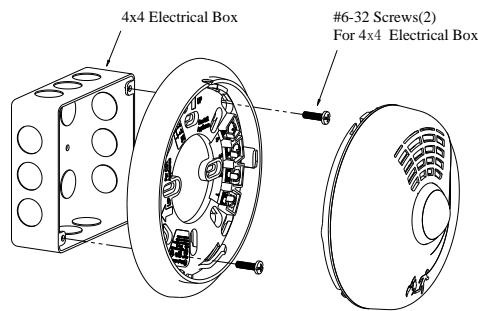
The light outputs compared to the UL minimum requirement  
 - - - - UL Limit (percent)  
 - - - - appliance intensity (percent)

**SPECIFICATION**

<b>Operating Voltage</b>	16 to 33 VDC (regulated 24VDC)		
<b>Effective Light (cd)</b>	177, 140, 110, 75, 30, 15		
<b>Sound Level (dBA) @24Vdc</b>	92, 89, 86, 83, 80, 75, 70		
<b>Directional Characteristics</b>	Horizontal Axis	Angle	OSPL (dBA)
		0° (ref)	0 (ref)
		± 49°	-3
		± 53°	-6
	Vertical Axis	Angle	OSPL (dBA)
		0° (ref)	0 (ref)
		± 20°	-3
		± 28°	-6
± 90°	-15		
<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, temporal 4, continuous, 20bpm, 60bpm, 120bpm, Gentex		
<b>Strobe Pattern</b>	1 flash per second		
<b>Wire Size</b>	12 to 18 AWG		
<b>Location</b>	Indoor wall/ceiling		
<b>Compatible FACP</b>	FW2106		
<b>Compatible Base</b>	FW900 & FW901		

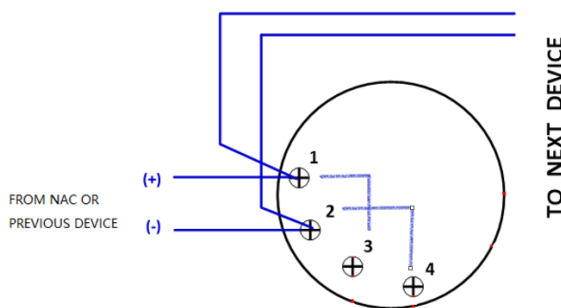
Read user manual MKT-DOC-FW2961, FW2971, FW2981-UM-R0.2 for RMS Operating Current

- Mount the FW900/FW901 base onto a 4x4 electrical box, see [Figure 1](#).



**Figure 1. Base Installation**

- Connect the wires. See [Figure 2](#).



**Figure 2. Wiring Diagram**

- Combine the (horn) strobe with the base – Align the (horn) strobe onto the base and twist it in clockwise.
- Test for proper operation. Initiate this unit from the connected FACP and observe for proper operation.
- For wiring detail under addressable, conventional and stand-alone modes, please read through MKT-DOC-FW2961, FW2971, FW2981-UM-R0.2

**ORDERING INFORMATION**

**MOUNTING & WRITING**

Model	Description	COO	UOM	MOQ	MPQ	Carton size and weight
<b>FW2961</b>	Horn Strobe, Ivory	China	Ea.	10	10	600x360x315mm
<b>FW2971</b>	Horn, Ivory	China	Ea.	10	10	600x360x315mm
<b>FW2981</b>	Strobe, Ivory	China	Ea.	10	10	600x360x315mm
<b>FW900</b>	Installation base for the family	China	Ea.	10	10	
<b>FW901</b>	Installation base with flange for the family	China	Ea.	10	10	