



## Addressable Multi Candela Horn/Strobe, Strobe, and Horn

FW963AGR, FW963AGW, FW973AGR, FW973AGW, FW983AGR, FW983AGW

### DESCRIPTION

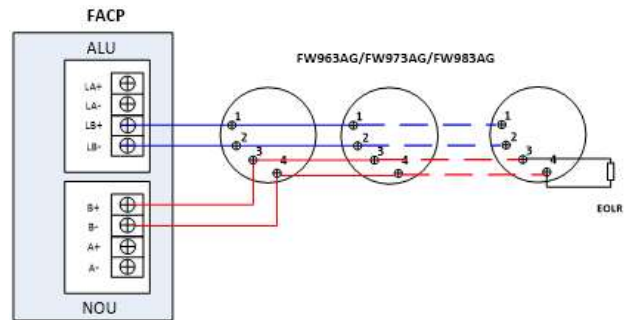
The FW963AGR/FW963AGW Horn Strobes and FW983AGR/FW983AGW Strobes are a family of addressable multi-candela visual and audible signal appliances with light sources generated from a white LED, listed according to UL 1971, UL 1638, UL 464, ULC-S525, and ULC-S526 for indoor use. The LED light source offers superior performance, including low power consumption and long operating life. Each appliance has the intelligence to report its location (the device address) and status to the FireWatcher series fire alarm control panels. 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 requirements. The appliance has the feature that can synchronize multiple horns and/or strobes in a complete fire alarm system.

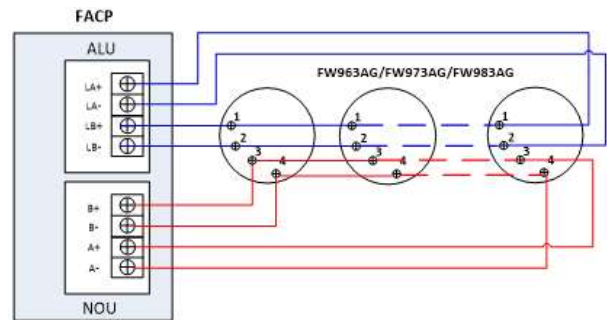
The FW973AGR/FW973AGW Horns are addressable audible signal appliances listed according to UL 464 and ULC-S525 for indoor use. The temporal tone generated by the horn portion is designed as per ANSI and NFPA72 for standard emergency evacuation signaling requirements. The horn has a feature that can synchronize multiple horns in a complete fire alarm system.

|                                    |                                |          |            |        |       |       |       |
|------------------------------------|--------------------------------|----------|------------|--------|-------|-------|-------|
| <b>Operating Voltage</b>           | 16 to 33 VDC (regulated 24VDC) |          |            |        |       |       |       |
| <b>NOU RMS Operating Current</b>   |                                | 177 cd   | 130 cd     | 100 cd | 75 cd | 45 cd | 15 cd |
|                                    | FW963AGR<br>FW963AGW           | 218      | 164        | 129    | 98    | 70    | 55    |
|                                    | FW983AGR<br>FW983AGW           | 210      | 145        | 114    | 84    | 55    | 40    |
|                                    | FW973AGR<br>FW973AGW           | 48       |            |        |       |       |       |
| <b>ALU RMS Operating Current</b>   | 112 $\mu$ A                    |          |            |        |       |       |       |
| <b>Sound Level (dBA)</b>           | Voltage                        | 16V dc   | 24V dc     | 33V dc |       |       |       |
|                                    | UL Reverberant                 | 85       | 89         | 93     |       |       |       |
|                                    | ULC Anechoic                   | 89       | 92         | 95     |       |       |       |
| <b>Directional Characteristics</b> | Horizontal Axis                | Angle    | OSPL (dBA) |        |       |       |       |
|                                    |                                | 0° (ref) | 0 (ref)    |        |       |       |       |
|                                    |                                | ± 49°    | -3         |        |       |       |       |
|                                    |                                | ± 53°    | -6         |        |       |       |       |
|                                    |                                | ± 90°    | -6.9       |        |       |       |       |
|                                    | Vertical Axis                  | Angle    | OSPL (dBA) |        |       |       |       |
|                                    |                                | 0° (ref) | 0 (ref)    |        |       |       |       |
|                                    |                                | ± 20°    | -3         |        |       |       |       |
|                                    | ± 28°                          | -6       |            |        |       |       |       |
|                                    | ± 90°                          | -15      |            |        |       |       |       |

## SPECIFICATION




CLASS B circuit

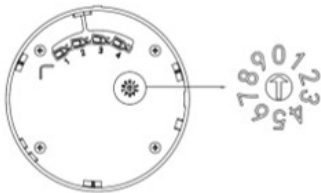


CLASS A circuit

|                              |   |
|------------------------------|---|
| <b>Effective Light (cd)</b>  | 177, 130, 100, 75, 45, 15<br>(See Figure 3 for candela selection) |
| <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>      | FW106 / FW106C FACP   |

### ATTENTION

 The product must be used within its published specifications and properly installed, operated, and maintained, following 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.



| Switch  | 1  | 2  | 3  | 4   | 5   | 6   | 7        | 8        | 9        | 0        |
|---------|----|----|----|-----|-----|-----|----------|----------|----------|----------|
| Candela | 15 | 45 | 75 | 100 | 130 | 177 | not used | not used | not used | not used |