

## Models 2880 & 2881 8-Tone Horns and 2884 Horn Strobes (Adapter Series)

### Features

- **The Adapter™** feature offers four field selectable candela strobe values – 15/75, 30/75, 75 or 110
- Strobe operates in either sync or non-sync modes
- Selectable: steady horn, temporal horn, vibrating bell, hi-lo, chime, siren, slow-whoop and single stroke bell
- Internal volume control
- Low current draw
- Single gang and universal mount configurations
- UL 1971 & UL 464 listed – all other listings pending
- UL 1971 listed for for both wall and ceiling mount
- ADA/NFPA/ANSI compliant
- Screw terminals accept 12 awg wire
- Strobe synchronization requires the 5406 Sync Module
- Made in U.S.A., ISO 9001 quality crafted

### Description

Depending upon the sound selected, the 8-tone horn draws 20 to 40 mA and has a sound output of 91 to 97 dBA. The **2880** mounts on a single gang box, while the **2881** and **2884** models have a universal mounting plate which mount to a 1 gang, 2 gang or 4" square box.

Faraday notification devices are designed with the installer in mind. They are constructed with all the electronics in the housing and not in the box. This design helps eliminate possible ground faults from crowded electrical boxes. The Adapter feature offers four field selectable candela settings – 15/75, 30/75, 75 or 110.



**Detail** – Adapter selector switch

An internal volume control provides adjustment of dB output levels. See detail on page 2.



The strobe construction consists of a Xenon flashtube with solid state circuitry for maximum reliability and efficiency. The strobe has a rounded dome shape made of clear polycarbonate.

Strobe synchronization requires the **5406** Sync Control Module.

### Engineering Specifications

The audible/visual notification appliances shall be Faraday Series 2884 Selectable Candela Strobe - Selectable 8 Tone Audible appliances, or approved equal. The audible appliances shall be Faraday 2880 or 2881 Selectable 8 Tone appliances, or approved equal. The Series 2884 visual segment shall be the Adapter Selectable Candela Strobe and shall be listed to UL1971 (Standard for Safety Signaling Devices for the Hearing Impaired). The Series 2884, 2880 and 2881

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audibles shall be UL listed under Standard 464 (Fire Protective Signaling). The appliances shall be listed for indoor applications and shall be ADA/NFPA/ANSI compliant.

The strobe segment of the Series 2884 shall produce a flash rate of one (1) flash per second over the Operating Voltage Range Limits. The strobe shall consist of a xenon flash tube enclosed in a rugged clear polycarbonate lens. The strobe shall be of a low current design, and shall provide a minimum of four (4) field selectable strobe intensity settings, 15/75, 30/75, 75, and 110candela. All settings shall be UL1971 listed for both wall and ceiling mount applications. The selector switch shall be tamper resistant. It shall not be necessary to remove the appliance from the mounting surface to select the strobe intensity. When strobe synchronization is required, the Strobe shall be compatible with the Faraday 5406 Sync Module, or other source of Faraday Sync Protocol, and shall not drift out of synchronization.

The Series 2884 audible segment, and the Series 2880, and 2881 audibles shall provide at least the following eight (8) field selectable sounds: *Temporal Tone, Steady Tone, Slow Whoop, Siren, Vibrating Bell, Single Stroke Bell, Chime, and Hi-Lo*. Each sound shall be selectable using internal dip switches. An internal volume control shall provide adjustment of dBA output levels, Inputs shall be compatible with standard reverse polarity circuit supervision by an FACP.

The Series 2884, and the Series 2881 shall include a Universal Mounting Plate that shall allow mounting to single -gang, two-gang, and 4" square backboxes, as well as Faraday 3046 and 3047 Surface Boxes.

The Series 2880 shall be designed specifically for mounting to a single-gang backbox.

### Specifications

**Environmental**

32°F to 120°F (0°C to 49°C) with 85% humidity

**Primary Input Voltage:**

Horn: 20-31 Vdc or VFWR  
 Strobe: Operating voltage range limits 16-33 Vdc or VFWR

**Mounting**

2880: mounts to a 1 gang box  
 2881 & 2884: have a universal mounting plate for 1 gang, 2 gang or 4" square box

**Typical Max. Audible Ratings @ 10 ft.**

- Vibrating Bell** - 91 db @ 20 mA
- Hi-Lo** - 96 db @ 25 mA
- Chime** - 93 db @ 28 mA
- Single stroke bell** - 93 db @ 26 mA
- Steady Horn** - 97 db @ 23 mA
- Temporal Horn** - 97 db @ 23 mA
- Siren** - 96 db @ 40 mA
- Slow whoop** - 96 db @ 40 mA

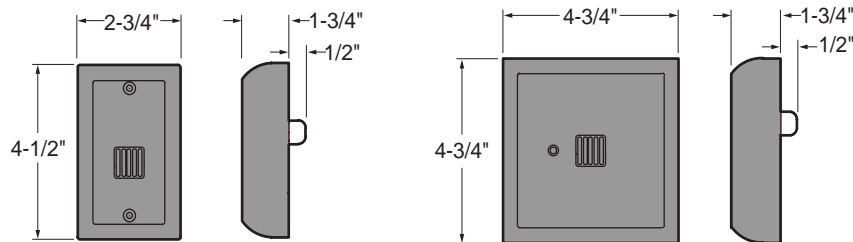
**Note:** With volume control in minimum position, ratings are reduced by 5 dB.

**Note:** Minimum UL measurements are 82dB. Typical dBA ratings are frontal sound readings taken with a dB meter with signal mounted on wall.

**Shipping Weight**

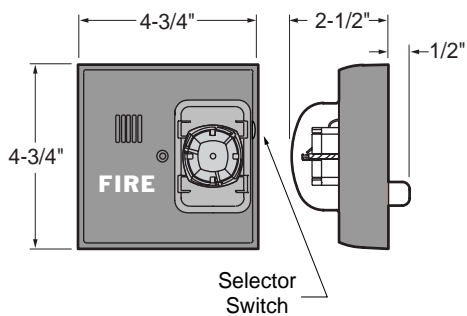
- 2880: 5 oz. approx.
- 2881: 8 oz. approx.
- 2884: 12 oz. approx.

### Physical Dimensions



**Model 2880**

**Model 2881**



**Model 2884**



**Detail – Volume adjust**  
 (factory set at max. volume)

## Ordering Information

### DC 8-Tone Horns and Horn Strobes

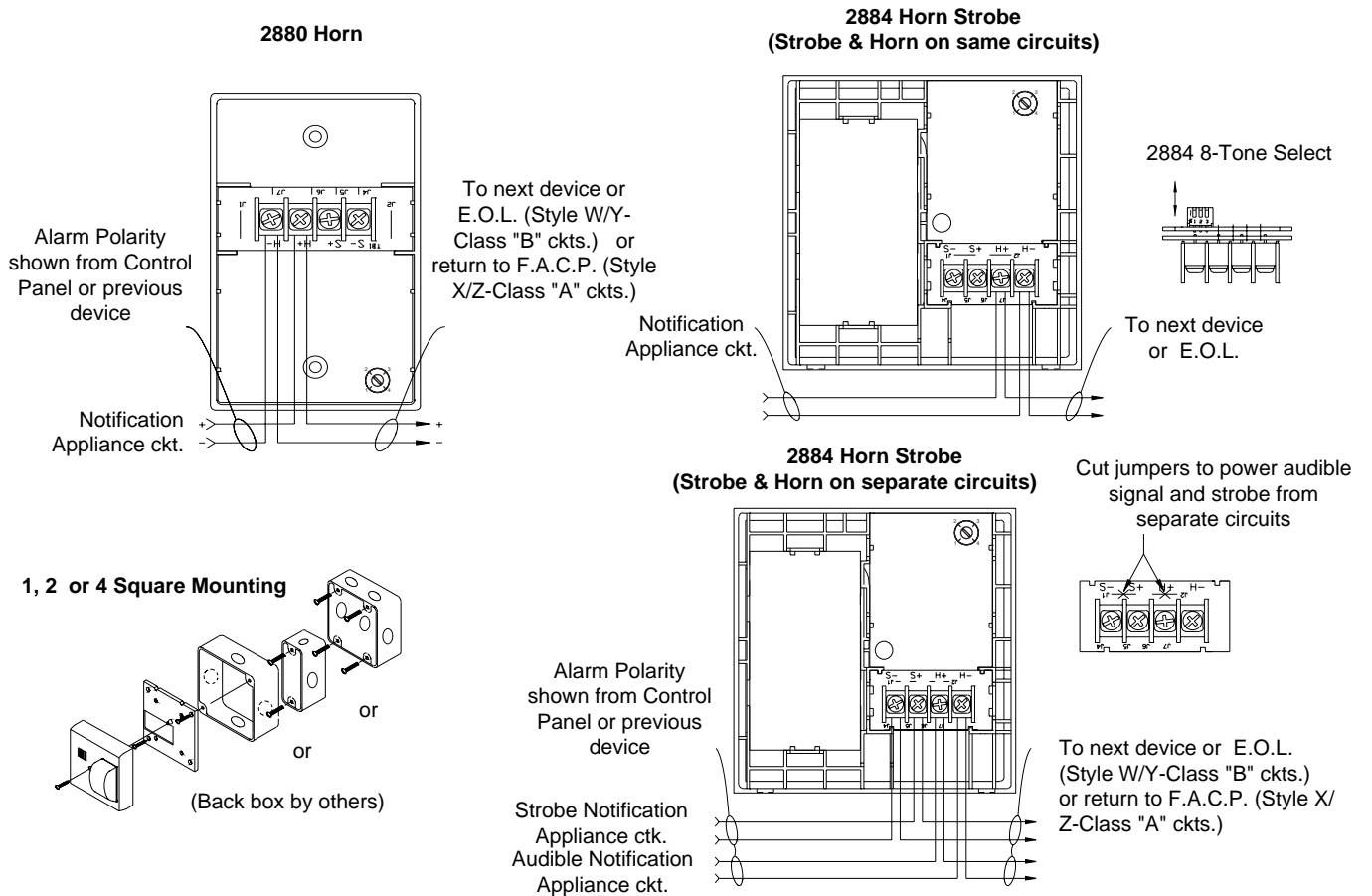
Part Number	Candela	Strobe Current @ 24 Vdc	Horn Current (max. volume)
2880B-(*)-24	n/a	n/a	see page 2
2881B-(*)-24	n/a	n/a	see page 2
2884B-(*)-24	15/75 Cd Strobe	63 mA	see page 2
	30/75 Cd Strobe	84 mA	see page 2
	75 Cd Strobe	143 mA	see page 2
	110 Cd Strobe	178 mA	see page 2

### Accessories

Part No.	Description
3017B-0-(*)	Flush or surface box, 1-9/16" (D)
3046B-0-(*)	Surface box, 2" (D)
3047B-0-(*)	Surface box, 2-3/4" (D)
3048B	Flush box, 2-3/4" (D)
5406B-0-(*)-24-DC	Sync control module

\* Color: (14) red or (21) off-white.

## Wiring



### Notes:

2880, 2881, 2884 devices must be connected to compatible non-pulsing signal circuits when temporal tone is chosen. Steady current output and appropriate voltage required. When audible signal and strobe are connected to same notification appliance circuit, current rating is combination of audible signal and strobe current.

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