

Models 2820 & 2821 Sync Temporal Horns and 2824 Horn Strobes

Features

- Low current draw, 23 mA @ 24V
- Units available with 15/75, 30/75, 60/75, 75 or 110 candela strobes
- Sync strobes and sync temporal horns, with horn silence on 2 wires
- Distinctive Temporal sound horn, 95 db @ 10 ft.
- Single gang or universal mount
- UL 1971 & UL 464 listed. CSFM listed, ULC and MEA approvals, FM pending
- UL 1971 listed for both wall and ceiling mount
- Screw terminals accept 12 awg wire
- Synchronization requires 5406 Sync Control Module
- Made in U.S.A., ISO 9001 quality crafted

Description

Faraday's **2820 & 2821** Sync Electronic Horns and **2824** Horn Strobes provide synchronous strobes with synchronous temporal tone signals on one pair of wires.

The models 282x horns draw 23 mA at 24 Vdc. The audio portion of the signal provides 95 dB @ 10'. The 2820 mounts to a single gang box, the 2821 and 2824 have a universal mounting plate for 1 gang, 2 gang or 4" square box mounting.

Faraday notification devices are designed with the installer in mind. The 282x devices are constructed with the electronics in the housing and not in the box. This design eliminates possible ground faults from crowded electrical boxes.

Engineering Specifications

Notification device shall be a Faraday model 2820 or 2821 listed to standard UL 464 and model 2824 listed to UL 1971 & UL 464 and shall be approved for fire protective service. The 282x notification appliances shall be used on circuits with the 5406 Sync Control unit which shall synchronize the strobes and synchronize the horns in the temporal pattern, all on 2 wires. Strobe shall be wired as a Primary Signaling Notification Appliance.



The 2824 strobe construction consists of a Xenon flashtube with solid state circuitry for maximum reliability and efficiency. The "M" (15/75 cd), "R" (30/75 cd), "T" (60/75 cd), "Y" (75 cd), "Z" (110 cd) series strobe has a rounded dome shape made of clear polycarbonate. "FIRE" letters are visible on the strobe housing. The overall lens is 2.0" x 2-7/8" with a height of 1-3/8".

The 2820, 2821 and 2824 are used on circuits with a 5406 Sync Controller.

Strobe shall also comply with the Americans with Disabilities Act (ADA) requirements for visible signaling appliances. Strobe shall operate on 24 Vdc from a regulated DC power supply or full-wave rectified, unfiltered supply without change in current draw.

The strobe light shall consist of a xenon flash tube and associated lens with flash system. 2821 and 2824 shall have a universal mounting plate capable of mounting to a standard 1 gang, 2 gang or 4" square box. The horn shall provide a temporal tone at 95 dBA at 10' typical rating with a current draw of not more than 23 mA.

Specifications

Environmental

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

Primary Input Voltage

24 Vdc

Mounting

2820B, mounts to a 1 gang box
 2821B & 2824B, have a universal mounting plate for 1gang, 2 gang or 4" square box

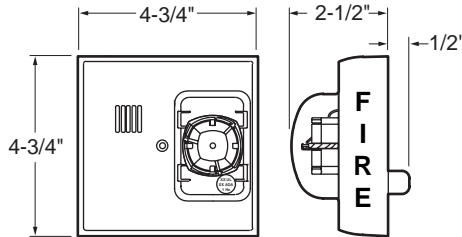
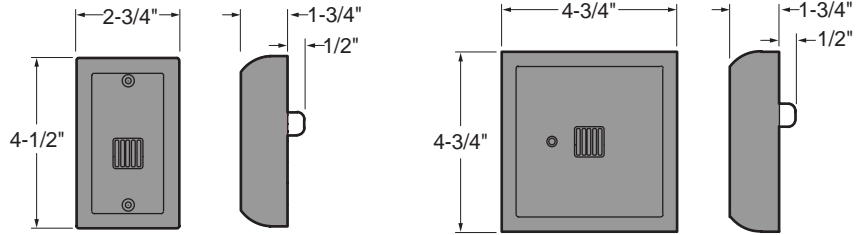
Typical Horn Ratings at 10 Feet**

Temporal Horn - 95 db @ 23 mA

Shipping Weight

2820B, 8 oz. approx.
 2881B, 8 oz. approx.
 2824B, 12 oz. approx.

Physical Dimensions



Ordering Information

Synchronized Silenceable Temporal Horns & Horn Strobes, 24 Vdc

Part Number	Candela	Strobe Current	Horn Current
2820B-0-(*)-24-DC	n/a	n/a	23 mA
2821B-0-(*)-24-DC	n/a	n/a	23 mA
2824B-M-(*)-24-DC	15/75 Cd Strobe	59 mA	23 mA
2824B-R-(*)-24-DC	30/75 Cd Strobe	88 mA	23 mA
2824B-T-(*)-24-DC	60/75 Cd Strobe	154 mA	23 mA
2824B-Y-(*)-24-DC	75 Cd Strobe	170 mA	23 mA
2824B-Z-(*)-24-DC	110 Cd Strobe	249 mA	23 mA

Accessories

Part No.	Description
5406-0-(*)-DC	Sync Control unit
3046B-0-(*)	2" Deep flush or surface box
3047B-0-(*)	2.-3/4" Deep flush or surface box
3048B	2.-3/4" Deep Flush box

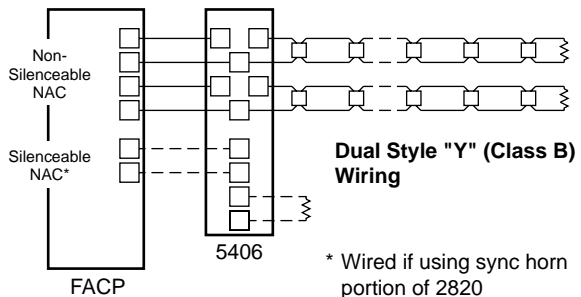
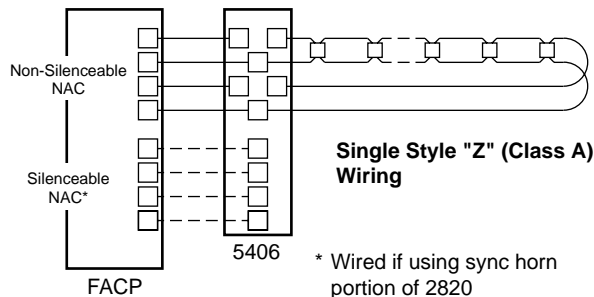
• For ceiling mount, add "A" after candela letter (e.g. 2824B-MA-(*)-24 DC)

* (14) red & (21) off-white

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

• Listed operating range is 20 to 31 Vdc regulated or FWR.

Wiring



Notes:

- 5406 Sync Module must be connected to 2 compatible non-pulsing signal circuits with a steady current output and appropriate voltage.
- Audible and visual currents are combined together.

- The 5406 sync strobe control unit must be wired electrically before the strobes/signals.



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