

Models 6225/6245/6230/6250 DC Electron-Mechanical Horns & 6234/6238/6254/6258 Horn Strobes (Adapter Series)

Features

- Contactless Electro-Mechanical design, resulting in no contact generated interference and high reliability (Patent #5,596,477)
- **The Adapter™** feature offers four field selectable candela values - 15/75, 30/75, 75 or 110
- Strobe operates in either sync or non-sync modes
- Strobe synchronization requires the 5406 Sync Control Module
- UL 1971 & UL 464 listed for both wall and ceiling mount – all other listings pending
- ADA/NFPA/ANSI compliant
- Horn/strobe can be wired together or independently
- Screw Terminals accept #12 Awg.
- Made in USA, ISO 9001 quality crafted

Description

The Electron-Mechanical Horns & Horn Strobes combine state of the art electronics with the rugged proven durability of a mechanical horn. The combination of electronics and mechanics provide the maximum penetrating sound power while eliminating problems associated with mechanical contacts. The Adapter feature offers four field selectable candela settings - 15/75, 30/75, 75 or 110.



Detail - Adapter selector switch

All models remove the effects of inrush and RFI noise associated with contact operated mechanical devices. This design also eliminates the possibility of dust and dirt contaminating the contacts.

The construction of the horn and horn strobe allows for flush mounting on a standard 4-inch square back box or surface mounting on a 3046 or 3047 surface box.

Screw terminals are provided for the horn and strobe. The strobe can be configured to operate independently from the horn. The strobe has a Xenon flashtube with solid state circuitry for maximum reliability and efficiency, and a rounded dome shape made of clear polycarbonate.

Models 6234 & 6254 Horn Strobe



Models 6230 & 6250 Horn

Models 6238 & 6258 Horn Strobe



Models 6225 & 6245 Horn

Engineering Specifications

The audible/visual notification appliances shall be Faraday Series 6234, 6238, 6254, or 6258 Selectable Candela Strobe - Electron Mechanical Horn, or approved equal. The audible appliances shall be Faraday 6225, 6230, 6245, or 6250 Electron Mechanical Horns, or approved equal. The Series 6234, 6238, 6254, and 6258 visual segment shall be the Adapter Selectable Candela Strobe and shall be listed to UL1971 (Standard for Safety Signaling Devices for the Hearing Impaired). Audibles shall be UL listed under Standard 464 (Fire Protective Signaling). In addition to indoor applications, the 6230 and 6250 shall also be UL listed for outdoor applications, when mounted in a Faraday 3014 or 3015 Surface Box. All other appliances shall be listed for indoor applications,

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and shall be ADA/NFPA/ANSI compliant. The strobe segment 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 110 candela. 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. Inputs shall be compatible with standard reverse polarity circuit supervision by an FACP.

The appliances shall combine electronics with the rugged durability and maximum penetrating sound power of a mechanical horn. To eliminate the effects of inrush and RFI noise, the appliances shall not have any mechanical contacts.

The Series 6225, 6230, 6234, and 6238 shall have a typical sound output rating of 96dBa at 10 feet. The Series 6245, 6250, 6254, and 6258 shall have a typical sound output rating of 100dBa at 10 feet.

The Series 6230, 6234, 6250, and 6254 shall have a square grille for mounting to a 4" square backbox, as well as Faraday 3046 and 3047 Surface Boxes.

The Series 6225, 6245, 6238 and 6258 shall have a round grille for mounting to a 4" square backbox.

Specifications

Environmental

Indoor: 32°F to 120°F (0°C to 49°C) at 85% RH
 Weatherproof (6230 & 6250 only): -31°F to 150°F (-35°C to 66°C) at 95% RH

Primary Input Voltage

Horn: 21-30 Vdc or VFWR
 Strobe: Operating Voltage Range Limits
 16-33 Vdc or VFWR

Horn Current

see ordering information on page 3

Typical dB Rating at 10 Feet

6225, 6230, 6234, 6238: 96 dB
 6245, 6250, 6254, 6258: 100 dB

Note: Typical dB ratings are frontal readings taken with a dB meter with signal mounted on wall.

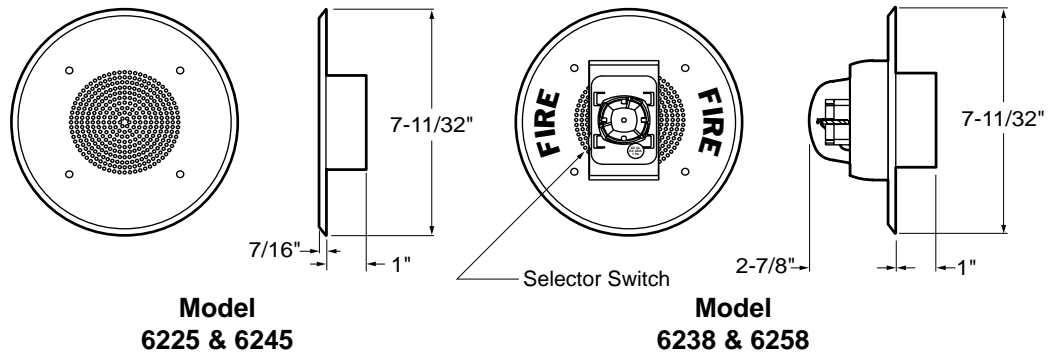
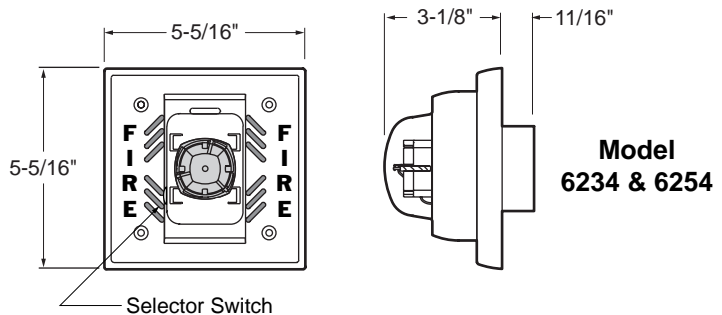
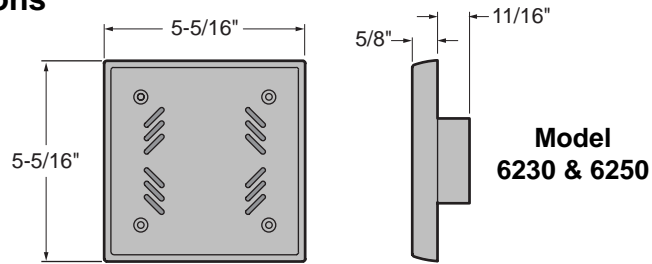
Mounting

Flush Indoor: 4" square box
 Surface Indoor: 3046 or 3047 box
 Weatherproof (6230 & 6250 only): 3014 or 3015 WP box

Shipping Weight

Horn: 1-1/2 lbs. approx.
 Horn/Strobe: 2 lbs. approx.

Dimensions



Ordering Information

Mechanical Horn & Horn Strobes, 24 Vdc

Part Number	Candela	Strobe Current	Horn Current
6230B-0-(*)-24-DC	n/a	n/a	38 mA
6234B-(*)-24	15/75 Cd Strobe	63 mA	38 mA
	30/75 Cd Strobe	84 mA	38 mA
	75 Cd Strobe	143 mA	38 mA
	110 Cd Strobe	178 mA	38 mA

Mechanical Horns & Horn Strobes, 24 Vdc, White (Ceiling Mount)

6225B-0-21-24-DC	n/a	n/a	38 mA
6238B-21-24	15/75 Cd Strobe	63 mA	38 mA
	30/75 Cd Strobe	84 mA	38 mA
	75 Cd Strobe	143 mA	38 mA
	110 Cd Strobe	178 mA	38 mA

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

Accessories

Part No.	Description
3014B-0-(*)	Weatherproof box 1/2" NPT
3015B-0-(*)	Weatherproof box 3/4" NPT
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
PM-6933	Pendent wall or ceiling housing

Ordering Information

Mechanical Hi dB Horn & Horn Strobes, 24 Vdc

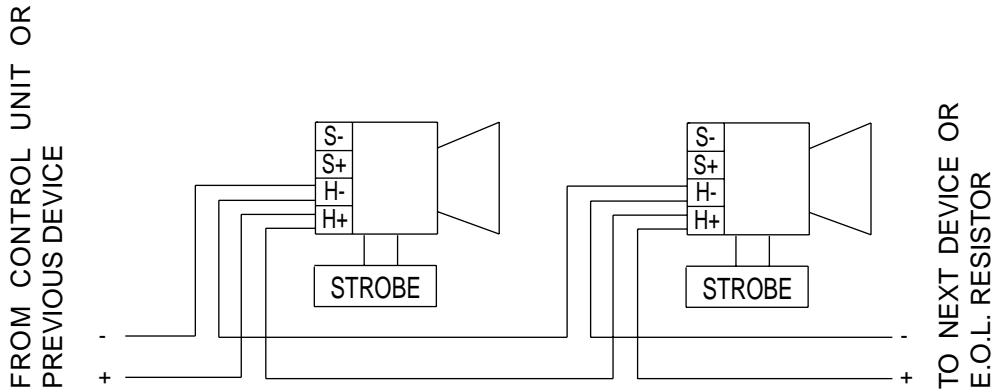
Part Number	Candela	Strobe Current	Horn Current
6250B-0-(*)-24-DC	n/a	n/a	65 mA
6254B-(*)-24	15/75 Cd Strobe	63 mA	65 mA
	30/75 Cd Strobe	84 mA	65 mA
	75 Cd Strobe	143 mA	65 mA
	110 Cd Strobe	178 mA	65 mA

DC Mechanical High dB Horns & Horn Strobes, 24 Vdc, White (Ceiling Mount)

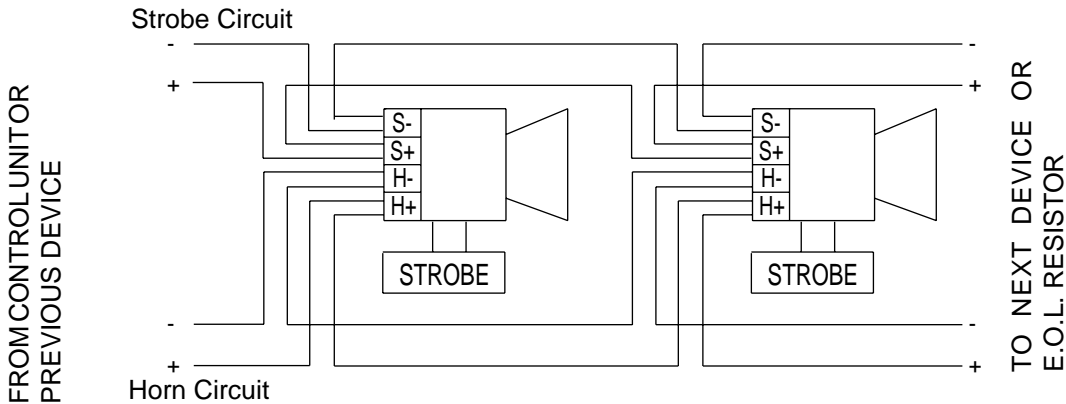
6245B-0-21-24-DC	n/a	n/a	65 mA
6258B-21-24	15/75 Cd Strobe	63 mA	65 mA
	30/75 Cd Strobe	84 mA	65 mA
	75 Cd Strobe, white	143 mA	65 mA
	110 Cd Strobe	178 mA	65 mA

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

Wiring



Wiring for 6234, 6238, 6254 & 6258 Horn Strobes where horns and strobes connect to the same circuit.



Wiring for 6234, 6238, 6254 & 6258 Horn Strobes where horns and strobes connect to separate circuits. (Cut Jumpers J1 and J2)

Sync strobes must be connected to a compatible signal circuit with a steady current output and appropriate voltage, with a 5406 Sync Control Module or other source of Faraday Sync Protocol wired electrically before the sync strobes.

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 Specifications subject to change without notice



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