



May 3, 1999

DN-6603 • J-114

Gentex ST/HS Series "Commander Series" Low-Current Strobe and Horn/Strobe

Section: Audio/Visual Devices

APPLICATIONS

The **Gentex Commander Series ST Strobes** or **HS Horn/Strobes** are low-profile devices that offer dependable audible and visual alarms with low current draw.

The HS horn/strobe models are easily field-changeable from a temporal 3 tone to a continuous tone by simply removing a jumper plug. HS horn/strobes are shipped from the factory in the temporal alarm mode.

Commander Series devices come standard with a 4" (10.16 cm) mounting plate.

The Commander Series has a minimal operating current and a minimum flash rate of 1 Hz regardless of input voltage. Strobes and/or horns can be synchronized with the **Gentex AVS44** control module.

Commander Series devices are UL 464 and UL 1971 listed for use with fire protective systems.

STANDARD FEATURES

- Lower installation costs — hang more signals per power source.
- Lower operating costs — 15/75 candela strobe draws only 57 mA at 24 VDC.
- Easier installation — sleek, low profile.
- Tamper-proof reentrant grille.
- Separate horn and strobe capabilities for field-modifying the signal to meet your specific applications.
- Input terminals 12 AWG (3.25 mm²) to 18 AWG (0.75 mm²).
- Temporal 3 or continuous tone.
- Synchronize strobe and/or horn by using the Gentex AVS44 control module (see DN-6172).
- Silence horn while strobes remain energized using only two power wires (when used with the Gentex AVS44 control module).
- Field-selectable for two- or four-wire operation; shipped from the factory with two-wire option.
- Available in red or off-white.
- 15/75 candela strobe option (ST24-15/75 and HS24-15/75). Meets ADA 4.28.3 requirements.
- ST24-110 and HS24-110 exceed requirements of ADA 4.28.3.
- UL 464/UL1971 listed for fire protective service/signal for hearing impaired.

ARCHITECTS' & ENGINEERS' SPECIFICATIONS

The visible and audible/visible signal shall be Gentex model ST or HS or approved equivalent and shall be listed by Underwriters Laboratories Inc. per UL 1971 and/or UL 1638 for the ST strobes and also UL 464 for the HS horn/strobes. The notification appliance shall also be listed with the California State Fire Marshal (CSFM) and the Material and Equipment Acceptance (MEA) NYC.



S3406 (HS)
S5405 (ST)

MEA
285-91-E



California
State Fire
Marshal
7135-0569:122 (HS)
7125-0569:123 (ST)

BFP
City of Chicago

ADA



HS24 Horn/Strobe



ST24 Strobe

The notification appliance (combination audible/visible units only) shall produce a peak sound output of 90 dBA or greater as measured in an anechoic chamber. The signaling appliance shall also have the capability to silence the audible signal while leaving the visible signal energized with the use of a single pair of power wires. Additionally, the user shall be able to select either continuous or temporal tone output with the temporal signal having the ability to be synchronized.

The visible signaling appliance shall also maintain a minimum flash rate of 1 Hz or greater, regardless of power input voltage. The appliance shall also be capable of meeting the candela requirements of the ADA (75 cd) for the combination-listed (UL 1971/UL 1638) listed models. The appliance shall have an operating current of 57 mA or less at 24 VDC for the 15/75 candela.

The appliance shall be polarized to allow for electrical supervision of the system wiring. The unit shall be provided with terminals with barriers for input/output wiring and be mountable to a single-gang or double-gang box, or to a double workbox with the use of an adapter plate. The unit shall have an input voltage range of 20 to 31 volts with either direct current or full-wave-rectified power.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact **NOTIFIER**. Phone: (203) 484-7161 FAX: (203) 484-7118



NOTIFIER

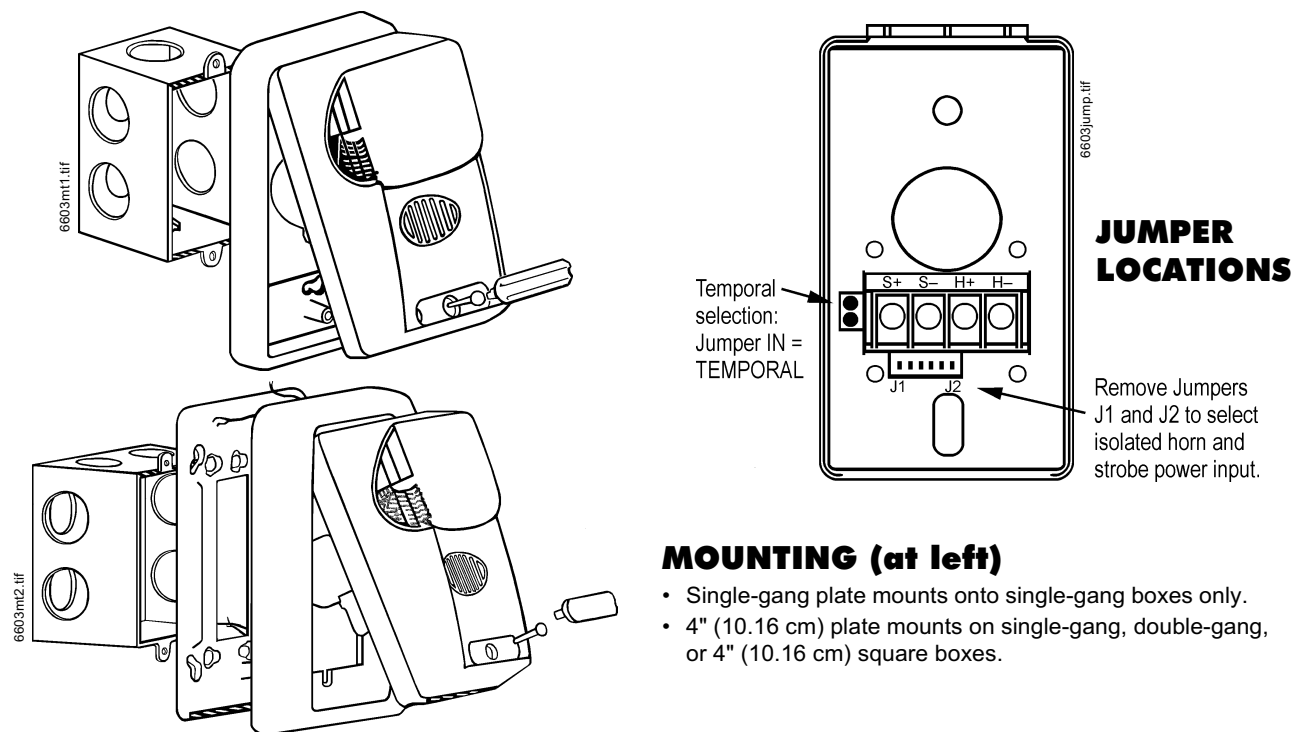
12 Clintonville Road, Northford, Connecticut 06472

ISO 9001
CERTIFIED
ENGINEERING & MANUFACTURING

AVAILABLE MODELS				STROBE RATED CURRENT @ 24 VDC			dBA @ 10 FT. (3.048 M)	
Model Number	Nominal Operating Voltage	Light Effective Intensity in Candela	Horn Current	Nominal Operating Current	Start-Up* (less than 5 ms)	Peak	In Anechoic Room	In UL Reverberant Room Per UL 464
ST24-15WR (or WW)	24 VDC	15	—	47 mA	242 mA	126 mA	—	—
ST24-15/75WR (or WW)	24 VDC	15 or 75	—	57 mA	243 mA	172 mA	—	—
ST24-30WR	24 VDC	30	—	57 mA	243 mA	172 mA	—	—
ST24-60WR	24 VDC	60	—	84 mA	292 mA	218 mA	—	—
ST24-110WR	24 VDC	110	—	110 mA	297 mA	245 mA	—	—
HS24-15WR (or WW)	24 VDC	15	30 mA	47 mA	242 mA	126 mA	92	85
HS24-15/75WR (or WW)	24 VDC	15 or 75	30 mA	57 mA	243 mA	172 mA	92	85
HS24-30WR	24 VDC	30	30 mA	57 mA	243 mA	172 mA	92	85
HS24-60WR	24 VDC	60	30 mA	84 mA	292 mA	218 mA	92	85
HS24-110WR	24 VDC	110	30 mA	110 mA	297 mA	245 mA	92	85

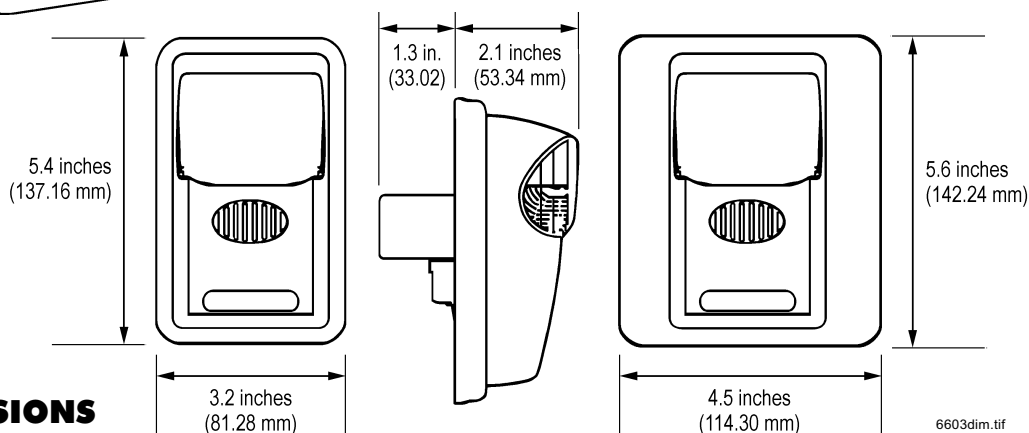
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NOTES: *START-UP CURRENT: Most control panels will ignore start-up current due to its short duration, therefore it should not limit the number of units capable of connection to a power supply. Start-up current occurs only upon initial activation. ALL 24 VDC MODELS operate from 21-30 VDC -20%/+10%. OPERATING TEMPERATURE: 32°F to 120°F (0°C to 49°C). CANDELA: light effective intensity in candela 15/75per UL 1971 (15) and UL 1638 (75). **WHEN PLACING AN ORDER:** The following letters are used at the end of the model number: "W" (WALL mount); either "R" at end (RED faceplate), or "W" at end (OFF-WHITE faceplate); "P" (PLAIN, i.e., no lettering). **STROBES ARE WALL-MOUNT ONLY.**

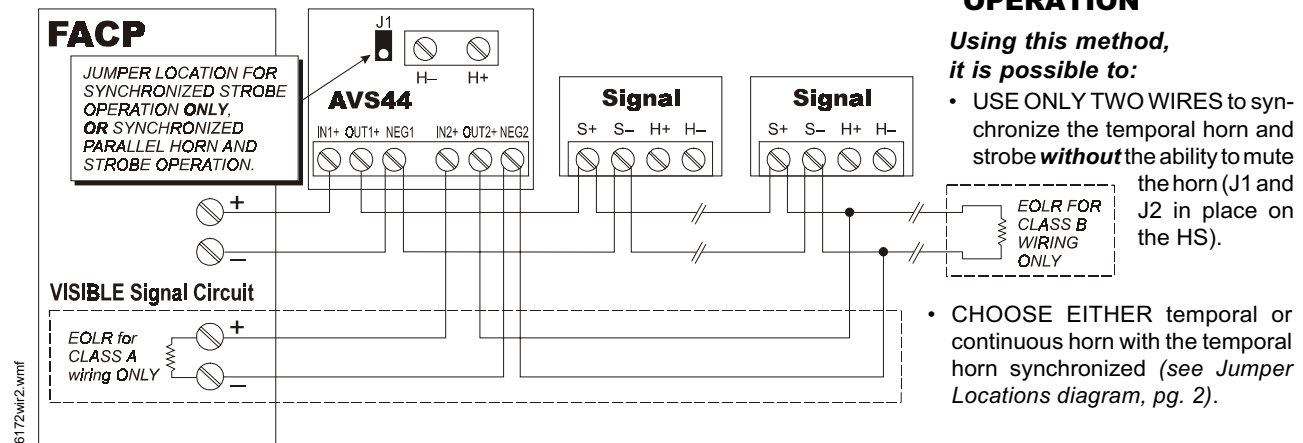
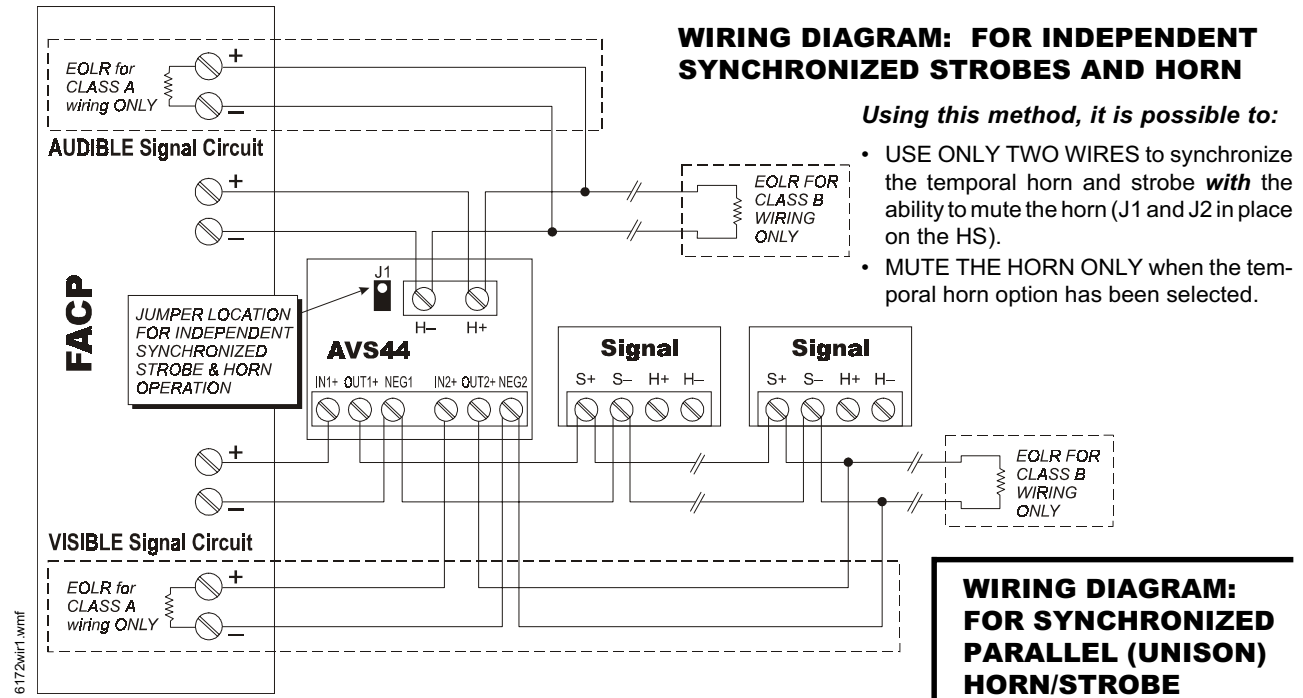


MOUNTING (at left)

- Single-gang plate mounts onto single-gang boxes only.
- 4" (10.16 cm) plate mounts on single-gang, double-gang, or 4" (10.16 cm) square boxes.



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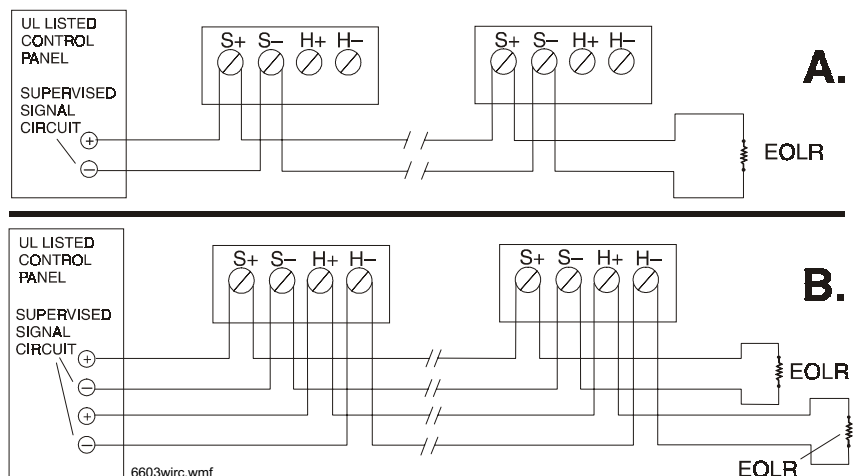


- ALSO WIRE THE CONTROL MODULE (AVS44) to only the strobe input power terminals, set the horn to continuous mode (see Jumper Locations diagram, pg. 2), and power it from a March Time source. **NOTE:** For this option, J1 and J2 on the HS must be removed to isolate power to the audible and visible portion of the circuit (see Jumper Locations diagram, pg. 2).

WIRING DIAGRAMS FOR CONVENTIONAL METHODS

- BOTH THE STROBE AND THE HORN may be **connected directly** from a source of rated power without the use of a control module. However, the horns and strobe lights will **NOT** be synchronized.
- **FIGURE A:** Leave jumpers J1 and J2 in place on the HS (see Jumper Locations diagram, pg. 2) to power both the audible and visible **from a single pair of power wires**.
- **FIGURE B:** To power the horn and strobe **from independent sources of power**, remove J1 and J2 on the HS (see Jumper Locations diagram, pg. 2) and connect power to the appropriate terminals.

NOTE: Power is supplied to devices when control panel is latched.



CAUTION When using only a single pair of terminals to power the strobe and horn (J1 and J2 in), the in/out wiring must be under the same terminal. Failure to do so may result in damage to your signal.