Ceiling Mount Strobes, Horn/Strobes

AS4003 Ceiling Mount Selectable Strobe
AS4004 Ceiling Mount Selectable Horn/Strobe

Standard Features

- FM Approved, UL 464, UL 1971 & BFP Listed
- Nominal Voltage 24 VDC
- Tamperproof Field Selectable Candela options of 15, 30, 75, 95,115 & 150
- Super-Slide™ Bracket - Ease of Supervision
- Testing Checkmate™ - Instant Voltage Verification
- Unit Dimensions: 6" x 2.6"
- Synchronize AS4003 Series by using Avenger Series Control Module
- Prewire Entire System, then Install Your Signals Input Terminals 12 to 18 AWG
- Switch Selection for High or Low dBA
- Switch Selection for 2400Hz or Mechanical
- Tone Switch Selection for Continuous or Temporal 3
- Tamperproof Re-entrant Grill
- Surface Mount with the Ceiling Surface Mount Box
- Silence Horn While Strobes Remain Flashing
- Wide Voltage Range 16-33 VDC or FWR
- Faceplate available in Red or Off-White

Product Overview

The AS4003/AS4004 Series is a ceiling mount strobe or horn/strobe combination that offers dependable audible and visual alarms and the lowest current available.

The AS4003/AS4004 offers tamper field selectable candela options of 15, 30, 75, 95, 115 and 150 candelas.

The AS4004 horn offers a continuous or synchable temporal three in 2400Hz or mechanical tone. These tones are easy for the professional to change in the field by using switches. The models are shipped from the factory in the temporal three alarm mode.

The Avenger Series has a minimal operating current and has a minimum flash rate of 1Hz regardless of input voltage.

This Series comes standard with the 4" mounting plate which incorporates the popular Super-Slide™ feature that allows the installer to easily test for supervision.

The AS4003/AS4004 Series also features the Checkmate™ - Instant Voltage Verification feature which allows the installer to check the voltage without removing the signal.

The Avenger Series appliances are UL 464 and UL 1971 listed for use with fire protective systems and are warranted for three years from the date of purchase.

AS4003 Ordering Codes

Part Number	Description
AS4003-10	24V Ceiling Mount Selectable Strobe - Red Faceplate
AS4003-30	24V Ceiling Mount Selectable Strobe - Off-White Faceplate

AS4004 Ordering Codes

Part Number	Description	Reverberant dBA @ 10ft. Per UL 464[1]	In Anechoic Room dBA @ 10ft
AS4004-10	24V Ceiling Mount Selectable Horn/ Strobe - Red Faceplate	81-86	90
AS4004-30	24V Ceiling Mount Selectable Horn/ Strobe - Off-White Faceplate	81-86	90

Fire Detection System by **Avenger**, Las Vegas, Nevada 89141 U.S.A. I Phone: 1-702-513-4654
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AS4003 / AS4004 Product Strobe Current Ratings						
Candela	**15cd**	**30cd**	**75cd**	**95cd**	**115cd**	**150cd**
24 VDC	72mA	101mA	167mA	200mA	214mA	286mA
UL MAX[2]	120mA	130mA	247mA	318mA	360mA	454mA

Horn Mode	Minimum dBA @ 10ft. per UL464 (HIGH)	Minimum dBA @ 10ft. per UL464 (LOW)	Regulated 24VDC Max. Operating @ High Setting (mA)
Temp 3 2400Hz	83	75	23
Temp 3 Mechanical	81	73*	22
Continuous 2400Hz	86	78	23
Continuous	84	76	22

* Operating the horn in this mode at this voltage will result in not meeting the minimum UL reverberant sound level required for public mode fire protection service. These settings are acceptable only for private mode fire alarm use. Use the high dBA setting for public mode application.

Notes: The sound output for the temporal 3 tone is rated lower since the time the horn is off is averaged into the sound output rating.

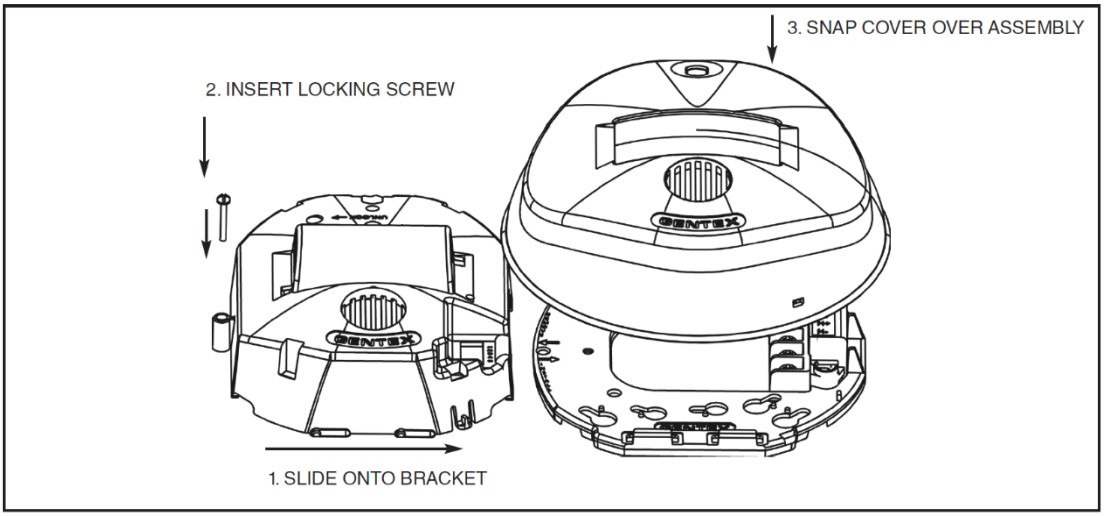
While the horn is producing a tone in the temporal 3 modes its sound pressure is the same as the continuous mode.

To obtain the horn/strobe current draw, add the strobe current draw and the horn current draw.

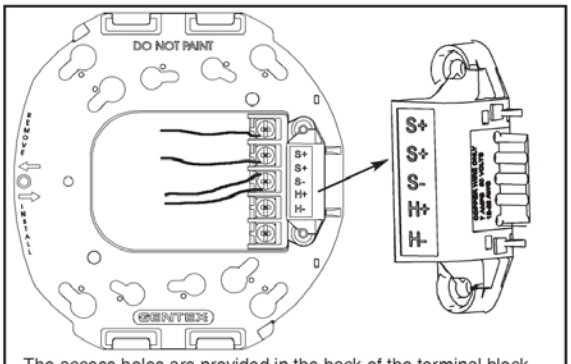
1 The listed horn current draws are for the Continuous Tone mode. The Temporal 3 Tone has a reverberant dBA @ 10ft. per UL 464 is 77-83 with a horn current draw of 34mA.

2 RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range 16-33VDC for 24VDC units. For strobes the UL max current is usually at the minimum listed voltage 16VDC for 24VDC units. For audible the max current is usually at the maximum listed voltage. For unfiltered FWR ratings, see installation manual.

Mounting Super-Slide®

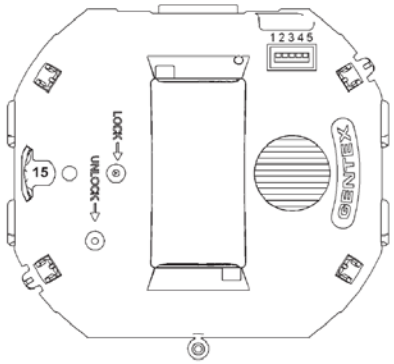


Checkmate® Instant Voltage Verification



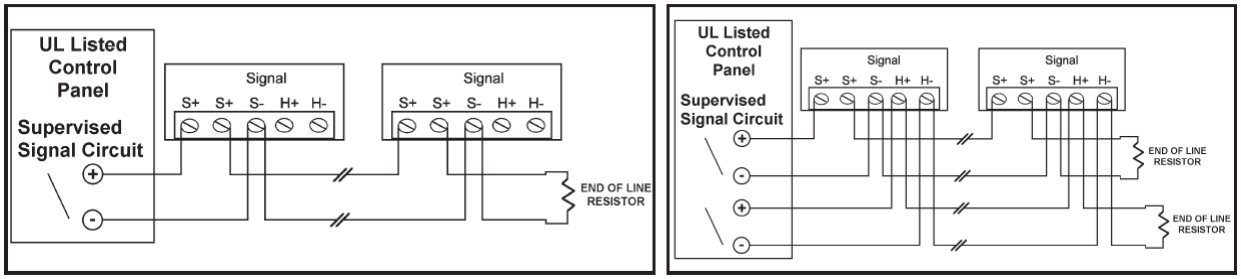
The access holes are provided in the back of the terminal block to allow the voltage to be measured directly without removing the device. Typically this would be done at the end of the line to confirm design criteria. Most measurements will be taken using the S+ and S- locations although access is provided to other locations. *NOTICE:* CARE SHOULD BE TAKEN TO NOT SHORT THE TEST PROBES.

Switch Locations

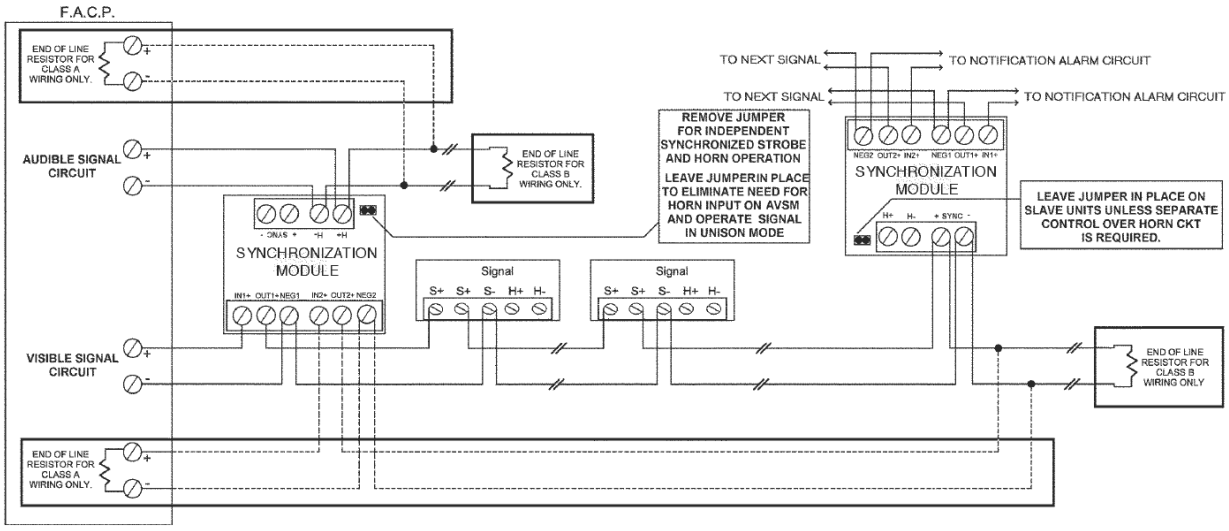


Switch positions 1 and 2 in the down position to select isolated horn and strobe power inputs. Switch 3 selects between temporal or non-temporal tone. Up is temporal. Switch 4 selects between mechanical or high frequency tone. Up is mechanical. Switch 5 selects between high or low dBA. Up is high dBA.

Conventional AS4003/ AS4004 Wiring Diagrams



Wiring Diagram AS4003/ AS4004 Series with Avenger



Engineering Specification

The visible and audible/visible signal shall be Avenger model AS4003 or AS4004 or approved equal and shall be listed by Underwriters Laboratories Inc. per UL 1971 for the AS4003 and also UL 464 for the AS4004.
The notification appliance shall also be listed with the California State Fire Marshal (CSFM) and the Bureau of Standards and Appeals (NYC). The notification appliance (combination audible/visible units only) shall produce a peak sound output of 90dBA 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 audible/visible and visible signaling appliance shall also maintain a minimum flash rate of 1Hz or up to 2Hz regardless of power input voltage. The appliance shall have an operating current of 72mA or less at 24 VDC for the 15 Cd strobe circuit.
The appliance shall be polarized to allow for electrical supervision of the system wiring. The unit shall be provided with a mounting bracket with terminals with barriers for input/output wiring and be able to mount to a single gang or double gang box or double workbox with the use of an adapter plate. The unit shall have an input voltage range of 16-33 volts with either direct current or full wave rectified power.
The appliance shall be capable of test supervision without disconnecting wires. Also the appliance shall be capable of mounting to a surface box. The unit shall also be able to verify voltage at the unit without removing unit.