

AVSM Control Module

Synchronization Control Module

Applications

The Gentex AVSM synchronization control module is designed to provide an easy way to synchronize multiple horns, strobes and horn/strobes using only two wires in instances where a synchronized flash is required. When synchronizing multiple horns and horn/strobes there is the ability to silence the horn while allowing the strobes to continue to flash.

Incorporating the control module as shown in the following diagrams, the control module will control the power to the signaling device to produce synchronized operation.

Standard Features

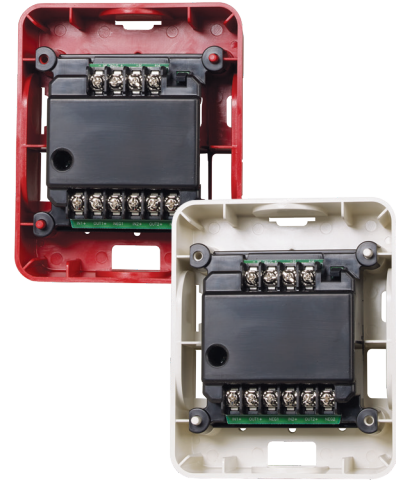
- AVSM operates with all current manufactured Gentex signals
- Synchronize horn and strobe with the use of only two wires
- No limit to the number of modules that can be synchronized together
- Module is rated for 3 amps continuous current and 5 amps surge or inrush current
- Synchronizes to 1 Hz flash rate
- Operates 1 class 'A' circuit or 2 class 'B' circuits at 3 amps per circuit
- Dual synchronization module **ONLY** when using 2 class 'B' circuits
- A green LED status indicator to signal operation of module
- Option to silence the horn while strobes continue to flash when using temporal 3 mode
- Three year warranty from date of purchase

Model Number	Part Number
AVSM-R	904-1243-002
AVSM-W	904-1244-002

AVSM Series Operating Current (mA)	
Voltage	UL Max
12 VDC (8-17.5 volts)	31 mA
24 VDC (16-33 volts)	45 mA

Notes

- The AVSM module shipped with back box and cover plate
- Dimensions of module: 3.85" (9.78 cm) high x 3.82" (9.70 cm) wide x 1.32" (3.35 cm) deep
- Dimensions of box: 5.57" (14.15 cm) high x 4.55" (11.56 cm) wide x 2.39" (6.07 cm) deep
- A green LED status indicator will flash once every four seconds if zone 1 is operational
- The LED will flash twice every four seconds if zones 1 and 2 are operational
- Strobes should not be used on coded or pulsing signaling circuits



Product Listings

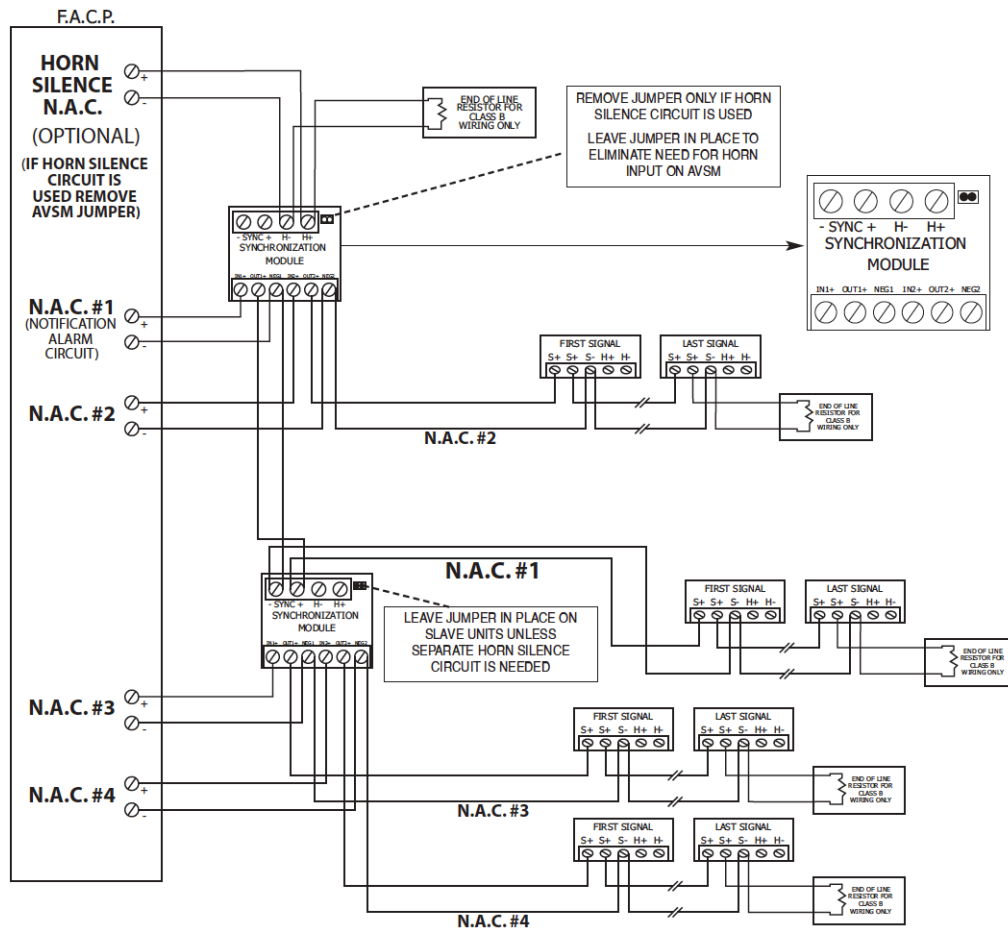


- ANSI/UL 464 and ANSI/UL 1971 Listed
- CAN/ULC S525 and/or CAN/ULC S526 Listed
- CSFM: 7125-0569:123
- MEA #285-91-E Vol. XVII

Product Compliance

- NFPA 72
- IBC/IFC/IRC
- City & State Ordinances/Laws/Regulations
- Quality Management System is certified to: ISO 9001:2008

Wiring for Multiple CLASS B Circuit and Use of a Slave Module



Additional AVSM wiring diagrams available on Gentex website: www.gentex.com

Wiring for Synchronized Strobes and Horns

Using this method you may:

- Use only two wires to synchronize the temporal horn and strobe with the ability to mute the horn
- Mute the horn only when the temporal horn option has been selected.
- Use the Gentex synchronization protocol to provide synchronization and mute the horn, if available

Wiring for Synchronized Parallel (Unison) Horn/Strobe Operation

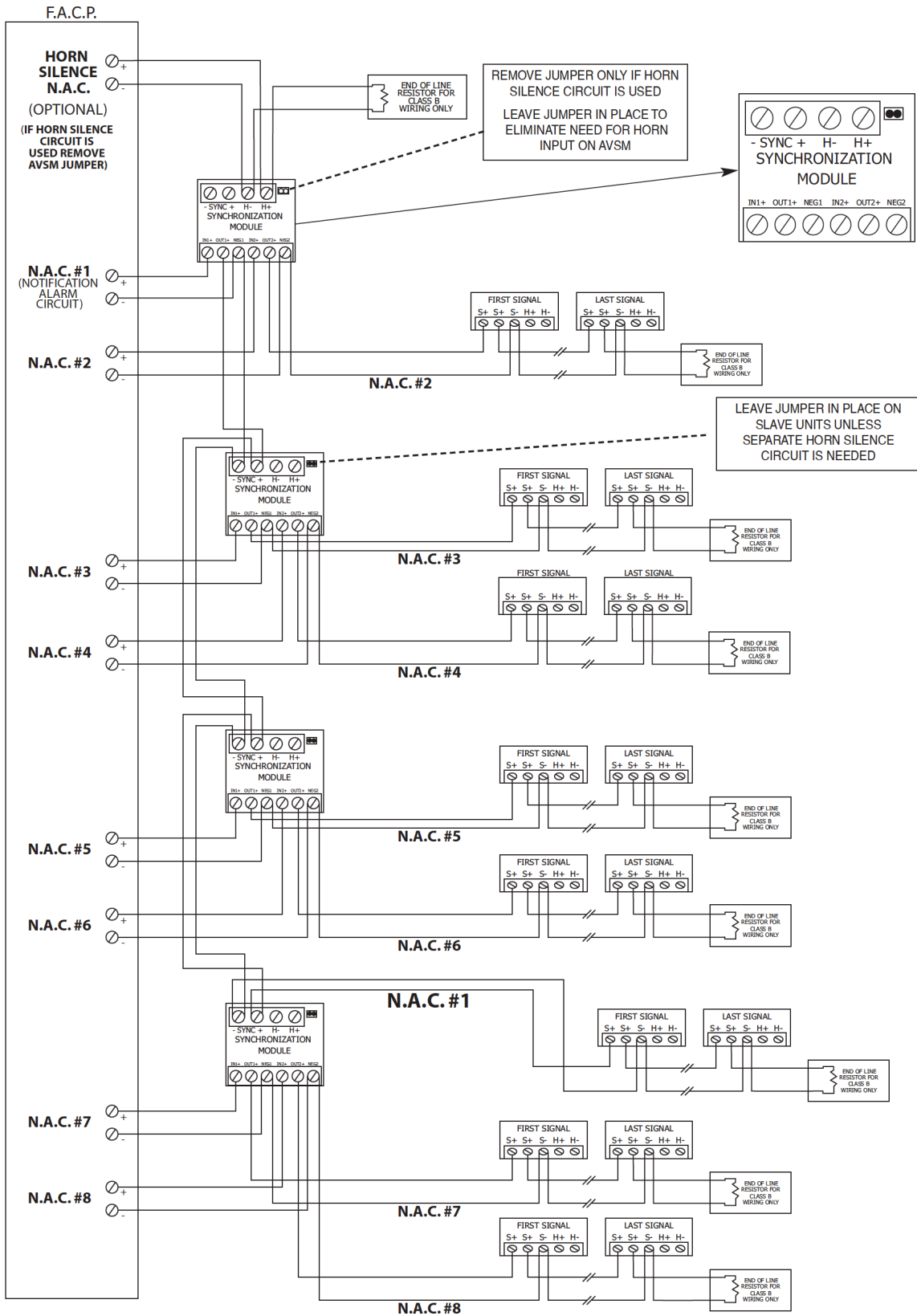
Using this method you may:

- Use four wires where two wires are used to power and synchronize the strobe and two additional wires are used to power and synchronize the horn
- Choose either continuous horn and allow the FACP to control the horn or choose temporal horn and synchronize the horns with the Gentex synchronization protocol
- Use the Gentex synchronization protocol to provide synchronization and mute the horn, if available

Notes

- CROSSING LINES DO NOT INDICATE CONNECTIONS
- The incoming positive power lead must be broken and each lead is to be inserted into each of the top two terminals. If two power runs are made to the signal, one for the strobe and one for the horn, only one of the runs must have its positive lead broken and placed under the two separate top terminals. A barrier is provided to prevent both leads from being placed under the same terminal.
- The AVSM module is listed per ANSI/UL 1971 and CAN/ULC S525 and/or CAN/ULC S526 with a voltage range of 8-33 VDC/FWR. The AVSM module was tested to the stated voltage range(s); do not apply 80% and 110% of this range for system operation. It is for indoor use only, with a temperature range of 0°C - 49°C (32°F - 120°F) and a maximum humidity of 93% humidity.
- **CAUTION:** The AVSM module is to be connected only to circuits that provide continuously applied voltage. Do not use this module on coded or interrupted circuits in which the voltage is cycled on and off.
- A steady DC power is to be applied, without any other protocol (including temporal 3).

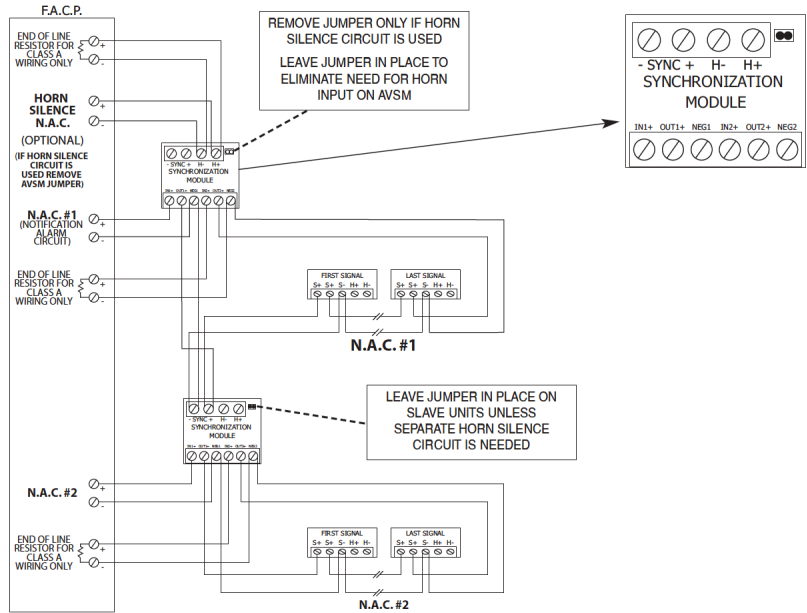
Wiring for Multiple CLASS B Circuits and Use of Multiple Slave Modules



AVSM Control Module

Gangable Synchronization Control Module

Wiring for Multiple CLASS A Circuits and Use of a Slave Module



Additional AVSM wiring diagrams available on Gentex website: www.gentex.com

Wiring for Synchronized Parallel (unison) Horn/Strobe Operation

Using this method you may:

- Use four wires where two wires are used to power and synchronize the strobe and two additional wires are used to power and synchronize the horn
- Choose either continuous horn and allow the FACP to control the horn or choose temporal horn and synchronize the horns with the Gentex synchronization protocol
- Use the Gentex synchronization protocol to provide synchronization and mute the horn, if available

Wiring for Synchronized Strobes and Horns

Using this method you may:

- Use only two wires to synchronize the temporal horn and strobe with the ability to mute the horn
- Mute the horn only when the temporal horn option has been selected.
- Use the Gentex synchronization protocol to provide synchronization and mute the horn, if available

Notes

- CROSSING LINES DO NOT INDICATE CONNECTIONS
- The incoming positive power lead must be broken and each lead is to be inserted into each of the top two terminals. If two power runs are made to the signal, one for the strobe and one for the horn, only one of the runs must have its positive lead broken and placed under the two separate top terminals. A barrier is provided to prevent both leads from being placed under the same terminal.
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GENTEX
CORPORATION

Fire Protection Products Group | 10985 Chicago Drive | Zeeland, MI 49464
gentex.com | Phone: 616.392.7195 | Toll-free: 800.436.8391 | Fax: 616.392.4219

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