

Genesis Signal Master Module Installation Sheet

Description

The Genesis Signal Master Module provides precision synchronization and independent horn control for Genesis strobes and horns. It mounts on the back of the first appliance on the notification appliance circuit. Model numbers are listed below.

Table 1: Models

Description	Number
Genesis Signal Master [1]	ADTG1M, EG1M, G1M, MG1M, XLSG1M, ZG1M

[1] This module is compatible with Genesis devices. For specific models and quantities, see the compatibility list referenced on the control panel.

The Signal Master Module only synchronizes appliances that are electrically connected to, and electrically downstream from it.

Installation

Install in accordance with applicable requirements in the latest editions of the NFPA codes and standards and *Canadian Electrical Code*, Part 1, Section 32, and in accordance with the local authorities having jurisdiction.

To install the module:

- Slide the spade connectors of the Genesis Signal Master Module into the terminals on the back of the first Genesis appliance on the notification appliance circuit. See Figure 1.
- Observing polarity, connect the wires for the remaining appliances under the same terminals as the spade lugs. See the wiring diagrams.
- Connect the wires to the Genesis Signal Master. (See Figure 2 through Figure 4).

Wiring

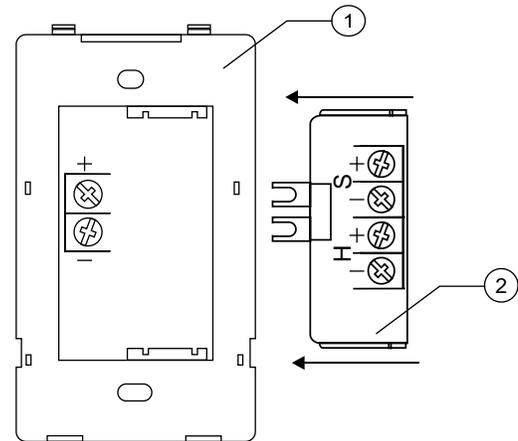
Only one Genesis Signal Master is required for each notification appliance circuit.

The strobe input of the Genesis Signal Master requires a dedicated NAC whereas the horn input of the Genesis Signal Master can be cascaded with other Genesis Signal Master modules on one NAC.

The strobe input source must supply a continuous 24 VDC when active.

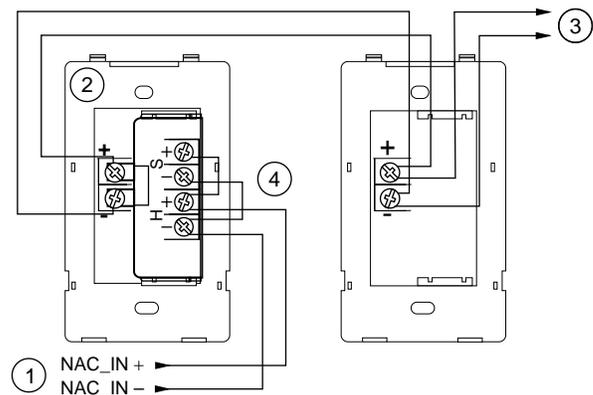
When determining allowable wire resistance, refer to the voltage rating of the Genesis Signal Master Module, the signaling appliance, and the control panel specifications.

Figure 1: Mounting the Genesis Signal Master Module



- Genesis appliance
- Genesis Signal Master Module

Figure 2: Synchronization using one NAC

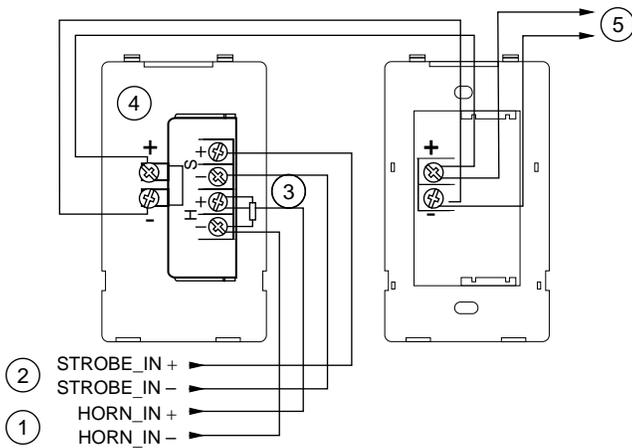


- From previous appliance or control panel
- Genesis appliance with Genesis Signal Master
- To next appliance, EOL resistor, or Class A circuit return. EOL resistor value is determined by the control panel requirements.
- Jumpers: when using a single horn and strobe NAC circuit, attach the NAC circuit to the bottom two terminals of the Genesis Signal Master. Install jumper H- to S- and H+ to S+, as shown.

Notes

- Polarity shown in alarm condition
- The horns cannot be silenced without turning off the strobes

Figure 3: Horn silence / synchronization using two NACs

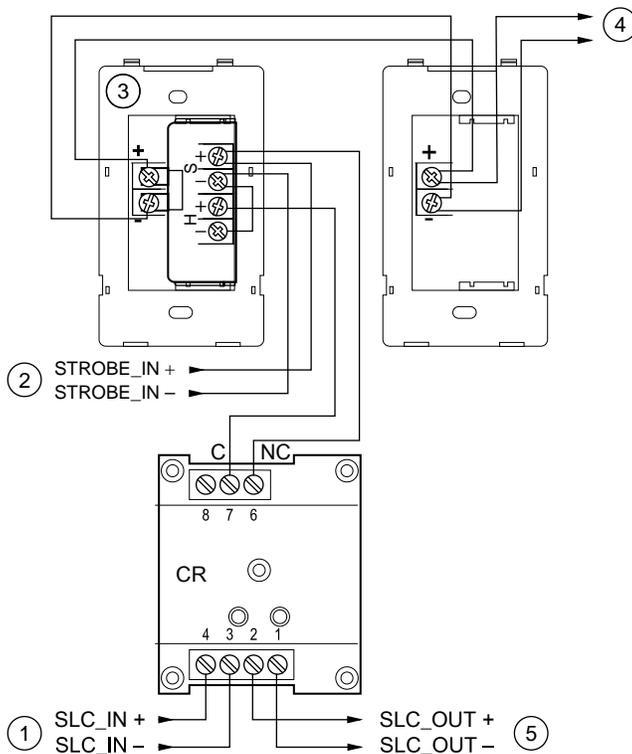


1. NAC 1 horn in
2. NAC 1 strobe in
3. Horn resistor, value determined by the control panel
4. Genesis appliance with Genesis Signal Master
5. To next appliance. EOL resistor or Class A circuit return

Notes

- Polarity shown in alarm condition
- The horn circuit can be silenced without turning off strobes

Figure 4: Horn silence / synchronization using one NAC



1. Signature data circuit from loop controller or previous device
2. From previous appliance or control panel
3. Genesis appliance with Genesis Signal Master
4. To next appliance, EOL resistor or Class A circuit return
5. To next device or Class A circuit return

Notes

- EOL resistor is determined by the control panel requirements
- Polarity shown in alarm condition
- The horn circuit can be silenced without turning off strobes
- CR module must be located in the same electrical box as the Genesis Signal Master

Specifications

Operating voltage	16 to 33 VDC or 16 to 33 VFWR
Operating current	33 mA
Output rating	2 A max. Actual value limited by system NAC and power outputs.
Synchronization	
Flash	1/s, within 10 ms indefinitely
Resistance between two appliances	20 Ω max.
Wire size	12 to 18 AWG (0.75 to 2.50 mm ²)
Mounting	Snaps to back of Genesis appliance
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Relative humidity	0 to 93% noncondensing

Regulatory information

Manufacturer	Edwards, A Division of UTC Fire & Security Americas Corporation, Inc. 8985 Town Center Parkway, Bradenton, FL 34202, USA
Year of manufacture	The first two digits of the product serial number (located on the product identification label) are the year of manufacture.
UL rating	Regulated 24 DC, Regulated 24 FWR [1]
Synchronization	UL 1971 compliant
Environmental class	UL: Indoor
North American standards	UL 1971, UL 1638, UL 464, CAN/ULC S525, CAN/ULC S526

[1] This module was tested to the regulated 24 VDC/FWR operating voltage limits of 16 V and 33 V. Do not apply 80% and 110% of these values for system operation.

Contact information

For contact information, see www.utcfireandsecurity.com.