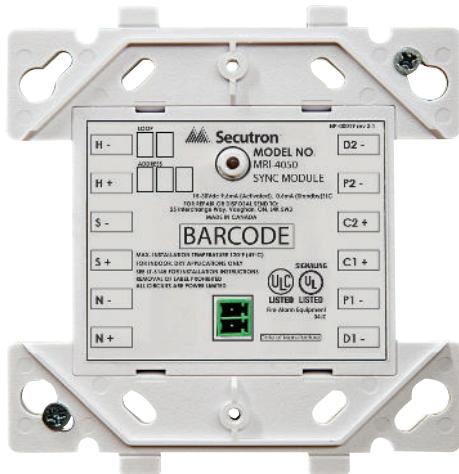


## MRI-4050 SYNC MODULE



### Description

The MRI-4050 Sync Module is designed to be used with MGC NAC devices.

The Sync Module is used to synchronize the strobe flashes with the audio signal pattern. The same protocol is used to silence the horn while maintaining the strobe flashes. It also supports two stage alarm function of Alert (20 strokes per minute) and Evac (temp 3).

The sync module is installed between a fire alarm system NAC line and the NAC devices. When there is no alarm, the NAC line connected to the sync module is off and no power is applied to the device. When the NAC line turns on, the device is powered and becomes operational.

Up to 20 modules can be interconnected to achieve synchronization without the need to program or select a master unit. An LED will indicate activation and master/slave status. Master will flash intermittently while slave will flash at a fast rate. Correct interconnection of devices can be checked by ensuring only one device flashes at the master rate.

The silence input can be used to silence the NAC devices on one MRI-4050 without affecting the other MRI-4050 devices that are interconnected.

The module can synchronize one (1) class A or two (2) class B NAC lines without the need for programming.

This is a hardware only device and does not require programming or setting of switches or jumpers.

### Features

- The module can synchronize one (1) class A or two (2) class B NAC lines without the need for programming
- The module is fail-safe and will provide power to the NAC line by default through a relay
- The module has an isolated sync input/output to link up to 20 modules together
- Mounts in a standard 4" square or double gang electrical back box
- Supports two-stage alarm function of Alert (20 strokes per minute) and Evac (temp 3)

### Benefits

- The Sync module uses no power during standby
- Does not require addressing
- An LED will indicate activation and master/ slave status
- The Sync module is compatible with any UL/ULC listed panels and power supplies capable of providing regulated 24VDC or FWR for NACs
- The interconnected MRI-4050 devices synchronize automatically without the need of programming or jumper setting

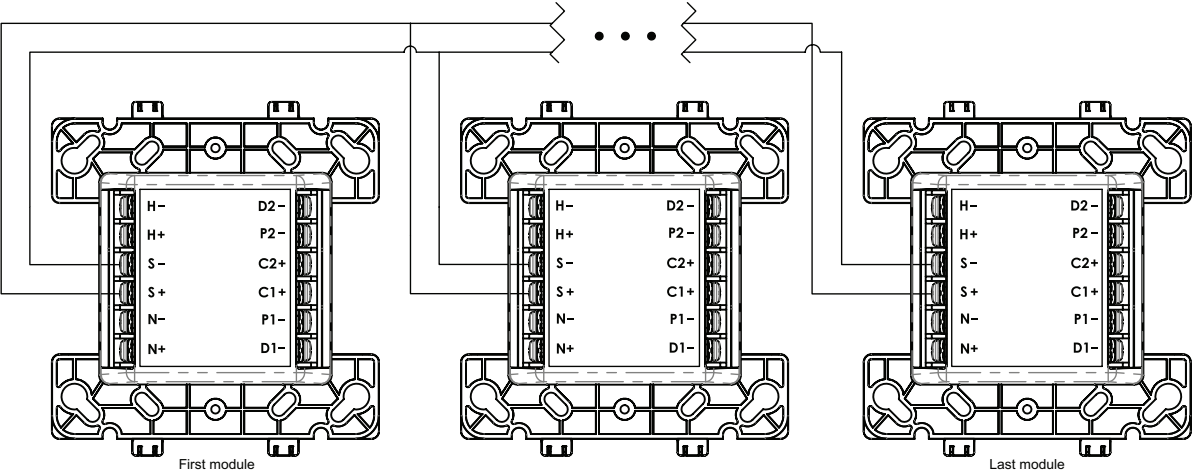
### Compatible Devices

- MGC FH-400 Series
  - Horns
  - Strobes
- MGC FHS-400 Series Horn Strobes
- MGC SPPS Series
  - Speakers
  - Speaker Strobes

# Technical Specifications

|  |   |
|--|---|
| Operating Voltage                                | 24V regulated (16 to 33V DC filtered or FWR)          |
| Alarm supply current                             | Maximum 25mA average                                  |
| NAC lines current                                | 3A for class A , 2 x 3A for class B lines             |
| First stage and Silence input activation voltage | 16 to 33V DC filtered or FWR                          |
| First stage and Silence input current            | 3.5mA max @ 33VDC                                     |
| Sync link  | Internally limited current and voltage                |
| Temperature Range                                | 32°F to 120°F (0°C to 49°C)                           |
| Humidity:  | 10% to 93% Non-condensing                             |
| Dimensions                                       | 4.625" H x 4.25" W x 1.125" D                         |
| Mounting   | 4" square by 2 1/8" deep box or BB-400 Electrical Box |
| Wiring range on all terminals                    | 22 to 12 AWG  |

# Interconnection



SYNC MODULES INTERCONNECTION (20 MODULES MAXIMUM):  
For more details refer to Installation Manual LT-6151

# Ordering Information

| Model    | Description              |
|----------|--------------------------|
| MRI-4050 | Sync Module White Finish |
| BB-400   | Surface mount back box   |