**Models Available**

- MDL (Red)
- MDLW (White)

**Canadian Models**

- MDLA (Red)
- MDLWA (White)

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### Product Overview

**Two wire operation from module to the devices**

**Silences horns over a two wire loop**

**Synchronizes strobes at 1 Hz**

**Synchronizes horns to temporal 3 pattern**

**Patented technology**

**Allows slave module operation**

**Generates synchronized temporal 3 tone for Multi-Alert™ and PA400 horn products**

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**Technology.** The Sync-Circuit module synchronizes SpectrAlert® strobes at 1 Hz and horns at temporal 3 over a single pair of wires. Patented module technology also allows the silencing of horns on horn/strobe models over a pair of wires.

**Application Flexibility.** The Sync-Circuit module is designed to power and synchronize either two 3-amp circuits wired in Class B or one 3-amp circuit powered as Class A. Should more than two zones require synchronization, additional modules can be added by interconnecting the “slave” input and output terminals between modules.

**Additional Capabilities.** The Sync-Circuit module is also designed to generate temporal 3 tone for System Sensor’s Multi-Alert and PA400 Mini-Alert sounders. Existing installations can be upgraded to comply with NFPA 72.

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**Engineering Specifications**

Synchronization Circuit Module shall be a System Sensor Sync-Circuit Model listed to UL464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert® strobes at 1 Hz and horns at temporal 3. Also, the module shall be capable of silencing the horns on horn/strobe models, while operating the strobes, over a single pair of wires. The module shall be capable of mounting to a 4\(1\frac{1}{8}\)"\(\times\)4\(1\frac{1}{8}\)"\(\times\)2\(\frac{3}{8}\)" back box and shall control two Style Y (class B) or one Style Z (class A) circuit. The module shall be capable of multiple zone synchronization by connecting multiple modules together via a slave-in/slave-out arrangement and re-synchronizing each other along the chain.

**Note:** The module shall not operate on a coded power supply.
### General Specifications

**Dimensions**
5\(\frac{1}{4}\)” L x 5\(\frac{1}{4}\)” W

**Mounting**
4\(\frac{1}{4}\)\(\frac{1}{2}\)” x 4\(\frac{1}{4}\)\(\frac{1}{2}\)” back box

**Indoor Operating Temperature**
32° to 120° F (0° to 49° C)

### Operating Specifications

**Operating Voltage**
12 or 24 VDC and FWR unfiltered

**Operating Voltage Range (12 V)**
9 to 17.5 VDC

**Operating Voltage Range (24 V)**
17 to 33 VDC

**Maximum Load on Loop**
3 Amps/zone

**U.S. Patent Nos.**
5,598,139     5,850,178

### Dimensions

5\(\frac{1}{4}\)” L x 5\(\frac{1}{4}\)” W

### Indoor Operating Temperature

32° to 120° F (0° to 49° C)

### Horns Silenced Over Two-Wire Circuit

1. Any mix of Horn/Strobes or Strobe only devices is acceptable
2. Horn control connects to interruptible power source

### Temp 3 Coding of Multi-Alert and PA400 Sounders

Strobes must be powered from non-coded supply

### Ordering Information/Current Draw

<table>
<thead>
<tr>
<th>Model No. (Red)</th>
<th>Model No. (White)</th>
<th>Voltage</th>
<th>Average Current (mA)</th>
<th>Peak Current (mA)</th>
<th>In-rush Current (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDL, MDLA (Canadian)</td>
<td>MDLW, MDLWA (Canadian)</td>
<td>12</td>
<td>10 DC</td>
<td>12 FWR</td>
<td>87 DC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24</td>
<td>11 DC</td>
<td>15 FWR</td>
<td>35 DC</td>
</tr>
</tbody>
</table>

### System Sensor Sales and Service

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**System Sensor in China**
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Fx: 852.22.736.6580

**System Sensor – Far East**
Ph: 613.54.281.142
Fx: 613.54.281.172

**System Sensor – India**
Ph: 91.124.237.1770 x.2700
Fx: 91.124.237.3118

**System Sensor – Russia**
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