AX-LPD Module

Advanced CAX-LPD module provides SLC and NAC circuit expansion of an existing CAX-CTL-2 Intelligent Fire Alarm Control Panel. The module provides two Style 4 or Style 6/7 Signaling Line Circuits (SLCs) and two notification appliance circuits (NACs). Communications to field devices attached to the SLCs is via an advanced, 100% digital protocol with advantages of being highly immune to noisy environments and will operate over non-shielded cable without causing interference problems with sensitive electronic equipment. The NAC circuits are filtered and regulated, capable of being wired Class A or B, each rated 2 Amp @ 24 VDC. Due to exceptional regulation and high rating, the NAC outputs provide compatibility with virtually any Listed notification appliance.

Each SLC circuit supports up to 126 analog addressable devices (any combination of intelligent detectors, input and/or output devices, including loop powered technology devices), for a total expansion capacity of 252 points. In addition, the SLC circuits support the Advanced unique sub-addressing of various input and/or output devices, expanding system capacities further.

Advanced CAX-NAC module provides NAC circuit expansion of an existing CAX-CTL-2 Intelligent Fire Alarm Control Panel. The module provides two notification appliance circuits (NACs). The NAC circuits are filtered and regulated, capable of being wired Class A or B, each rated 2 Amp @ 24 VDC. Due to exceptional regulation and high rating, the NAC outputs provide compatibility with virtually any Listed notification appliance.

Features

- 2 SLC/NAC or 2 NAC Expansion
- “DynamiX” I/O Relationship Programming
- Multi-Pattern & Two-Stage NAC Control
- 252 Analog Addressable Point Expansion
- Automatic Detector Testing with Maintenance Alert
- Automatic Drift Compensation per Detector
- Alarm Verification and PAS
- Style 4, 6 & 7 SLC Operation (126 devices per SLC)
- SLC’s Support Loop Powered Technology
- Class A or B NAC Circuits
- Multi-Pattern and Two-Stage NAC Circuit Control
- Synchronized Audibles and Visuals (Panel or Network Wide)
- Programmable Silenceable & Non-Silenceable NACs
- Voltage Regulated NACs (Compatible with many Listed NAC devices)
- “Auto-Learn/Loop Detection” Programming

Listings and Approvals

- CAN/ULC-S527-11 & CAN/ULC-S559-04 Listed: 100780709NYM-001

Wiring Diagrams
## Specification

### SLC Loop
- **Class (Style)**: Class A or B (Style 4, 6 or 7)
- **Voltage**: 24 VDC
- **Minimum Return Voltage**: 17 VDC
- **Current**: .5A

### NAC Circuits
- **Class (Style)**: Class A or B
- **Voltage**: 24 VDC (Filtered and regulated)
- **Minimum Return Voltage**: 16 VDC
- **Current**: 2A (each)
- **Maximum Voltage Drop**: 3 VDC
- **Maximum Line Impedance**: 1.5 Ω
- **End of Line Resistor**: 10K

### Environment
- **Indoor. Dry**
- **Operating Temperature**: 32°F-120°F (0°C-48°C)
- **Humidity**: 10-95% (Non-condensing)

### Dimensions
- **47 / 8” W x 51 / 2” L x 11 / 2” D**

### Weight
- **4.5 oz**

## Order Codes and Options

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAX-LPD</td>
<td>2-Way SLC/NAC</td>
</tr>
<tr>
<td>CAX-NAC</td>
<td>2-Way NAC</td>
</tr>
</tbody>
</table>