INTELLIGENT NAC EXPANDER/POWER SUPPLY  INX-10A

Description

Mircom’s INX-10A is an Intelligent NAC expander/power supply that works with listed compatible Intelligent fire alarm control panels. Available in a 10 Amp configuration, the INX-10A can extend the power capabilities of existing notification appliance circuits as well as provide power for other ancillary devices. In addition, the INX-10A has the ability to operate with any UL/ULC Listed 24 VDC fire alarm control panel to provide Notification Appliance Circuit expansion. The INX-10A is equipped with five individual Class B (Style Y) or Class A (Style Z) output circuits that can be independently configured for NAC operation or auxiliary power. The INX-10A provides the option of configuring all five circuits as an output to provide general purpose power. In addition output circuits four and five can be configured to provide auxiliary power for four-wire detectors or door holders.

Each output circuit is rated for 2.5 Amps. When configured for NAC operation the outputs can be set for Steady, Temporal Code, California Code or March Time. In addition the output circuits have field selectable built-in strobe and horn synchronization protocols to support Amseco, System Sensor, Wheelock and Gentex devices, eliminating the need for additional external synchronization modules.

Features

- 10 Amp output
- 120 / 240V operation
- Works with listed compatible Series Intelligent Fire Alarm Control Units
- Easily configured using DIP switches
- One isolated input from the host panel
- Five Class B (Style Y) or Class A (Style Z) synchronized output circuits
- DC regulated outputs
- Configurable AC Power fail delay
- Ground fault enable or disable
- Option available on configuration to enable or disable the battery charger on activation
- From 7 to 15 Address functions (Combination of inputs and outputs, depending on the application)
- Outputs individually controllable
- Separate Relay for Ground Fault and Common Trouble available on terminals
- Horn/Relay synchronization protocols include Amseco, Gentex, System Sensor and Wheelock
- Two-wire horn/strobe Sync Mode allows audible notification appliances (horns) to be silenced while visual notification appliances (strobes) continue to operate
- Audible signals may be configured for Steady, Temporal Code, California Code and March Time
- Output circuits four and five can be configured to provide auxiliary power for four-wire detectors or door holders.
- Canadian two stage operation
- Output fault notification to fire alarm control panel
- Ability to sync outputs for multiple INX-10A units
- 2.5 Amp. maximum current per output
- 1.7 Amp auxiliary power output
- Built-in charger for sealed lead acid or gel type batteries
- Unit includes power supply, charger, red door, black backbox, transformer and battery leads
- Compatible with any UL/ULC listed 24VDC conventional fire alarm control panel to provide Notification Appliance Circuit expansion
Modes of Operation

Intelligent NAC Expander (INX) Modes

The INX-10A features three modes of NAC Expander operation:

- INX Mode with Internal Sync
- INX Mode with External Sync
- INX Mode with Redundant Input

Input Mode with Internal Sync

In this mode all signal and sync strobe rates are produced in the INX-10A.

INX Mode with External Sync

When one of the Sync Inputs is activated, the INX-10A outputs follow the signal pattern of the Sync Input. The INX-10A must be configured as a slave to operate in this mode.

INX Mode with Redundant Input

The system continuously monitors the SLC loop. If there is no activity for a notable time, an SLC trouble is generated. While the SLC trouble is active, if either of the Sync Inputs are activated then all NAC outputs follow.

Power Supply Modes

In addition to the NAC expander modes, some or all of the NAC outputs on the INX-10A can be configured for the following power supply modes of operation:

- NAC Outputs as Power Supply Outputs
- NAC Outputs for Door Release
- NAC Outputs for 4-Wire Smoke Supply

NAC Outputs as Power Supply Outputs

This mode allows any NAC output to be configured as a power supply. The SLC and Sync inputs are ignored for the power supply outputs.

NAC Outputs for Door Release

This mode allows NAC circuits 4 and/or 5 to provide power for door holders.

NAC Outputs for 4-Wire Smoke Supply

This mode allows NAC circuits 4 and/or 5 to provide auxiliary power for 4-wire smoke detectors.

Specifications

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>20”H x 14½”W x 4½”D</th>
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</thead>
<tbody>
<tr>
<td>AC Line Voltage</td>
<td>120V 60Hz / 240V, 50Hz, 2 Amps / 1 Amp (primary)</td>
</tr>
<tr>
<td>NAC Circuits</td>
<td>24VDC regulated, Power Limited</td>
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<tr>
<td></td>
<td>10A Total, 2.5A maximum per circuit</td>
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<tr>
<td>Battery</td>
<td>24VDC, Gel-Cell/Sealed Lead-Acid</td>
</tr>
<tr>
<td>Charging Capability</td>
<td>Up to 40 AH batteries</td>
</tr>
<tr>
<td>Current Consumption from INX-10(A) Power Supply</td>
<td></td>
</tr>
<tr>
<td>Standby</td>
<td>200 mA</td>
</tr>
<tr>
<td>Alarm</td>
<td>350 mA</td>
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<tr>
<td>Current Consumption from Compatible FACP Intelligent Loop (SLC)</td>
<td>4.5mA</td>
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</tbody>
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Common Indicators

- Power On
- Addressable Line Activity/Alarm
- Common Trouble
- Battery Charger/Trouble
- CPU Fail

Trouble LEDs

- Auxiliary Output Trouble
- Synchronized Output Trouble
- Ground Fault Trouble

Other LEDs

- Addressable (SLC) Loop Indicators (3 LEDs)
- Synchronized Input Indicators (2 LEDs)
- Synchronized Output Indicators (2 LEDs)
- Trouble LED Indicator
- Alarm Relay Indicator

Controls

- Acknowledge Button
- Configuration DIP Switches

Ordering Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>INX-10A</td>
<td>Intelligent NAC Expander, 10 Amps c/w backbox and red door</td>
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<tr>
<td>INX-10AC</td>
<td>Intelligent NAC Expander, 10 Amps Addressable Chassis Mounts into BB-5008 or BB-5014 enclosure</td>
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