



## PRODUCT INFORMATION

The Traditional Zone module provides eight Class B (Style B) traditional direct connect Initiating Device Circuits (IDC) for compatible 2-wire smoke detectors and dry contact initiating devices. Four of the eight IDCs may be converted to Class B (Style Y) Notification Appliance Circuits (NAC). Each pair of NAC circuits may be configured to provide a 24 VDC or signals from an external source for audio and telephone applications.

Each IDC may be set for latching/non-latching operation and verified/non-verified operation. Each IDC can support up to 30 model 6270B photoelectric smoke detectors or 50 model 6250B ionization detectors. Each NAC is rated at 24 VDC @ 3.5 A or 70 Vrms @ 100 W. 24 VDC power for the notification appliances is available directly from the rail chassis. NOTE: Each NAC pair is limited to a total of 3.5 A per two circuits. When the rail chassis is used as the 24 VDC source, the module is limited to a 7 A total current draw. Input terminals are provided to supply the external signal source.

The Traditional Zone module requires one connection on the rail chassis and is secured to the assembly using snap rivet fasteners. All field wiring connections to the Traditional Zone module are made via plug-in connectors, permitting termination of field wiring without the module installed in the enclosure. The plug-in connectors and snap rivet mounting also facilitate rapid remove and replace troubleshooting without the use of tools. The module features a hinged front panel for mounting displays or a blank protective faceplate.



## SPECIFICATIONS

Installation	1LRM space on the rail chassis
Module Configuration	8 Initiating Device Circuits, 4 of which are convertible to Notification Appliance Circuits
Initiating Device Circuit (IDC)	
Wiring Configuration	Class B (Style B)
Detector Voltage	16.23 to 25.4 Vdc, Max. ripple 400 mV
Short Circuit Current	75.9mA Max.
Circuit Resistance	50Ω Max.
Capacitance	100 μF Max.
EOL Resistor	4.7KΩ
Detector Load	Refer to compatibility listings in the EST3 ULI/ULC Compatibility Lists (P/N 3100427)
Output ratings: Special applications	
Notification Appliance Circuit (NAC)	
Wiring Configuration	Class B (Style Y)
Voltage	24 Vdc Nominal, 70 Vrms Max.
Current	3.5A @ 24 Vdc
Power	60 W @ 25 Vrms 100 W @ 70 Vrms
EOL Resistor	15 KΩ
Maximum Wire Size	12 AWG (2.5 mm <sup>2</sup> )
Termination	Removable plug-in terminal strips on module
Current Requirements (does not include LED/Switch module on NAC)	
Standby	48 mA @ 24 Vdc
Alarm	408 mA @ 24 Vdc
Operating Environment	
Temperature	32°F (0°C) to 120°F (49°C)



## INSTALLATION

If a Control/LED Display is required on this module, mount it in the recess on the front of the module. Secure the display to the module with the four supplied plastic rivets. Connect the display ribbon cable (P/N 250186) from connector J1 on the display to connector P1 on the module.

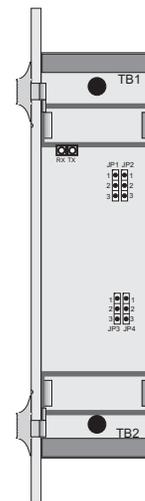
The 3-IDC8/4 has four dedicated Class B Initiating Device Circuits (IDCs) labeled IDC3 & IDC4, and IDC7 & IDC8. The module also has two pairs of configurable Class B circuits. IDC/NAC1/2 and IDC/NAC5/6 are configurable as either two Initiating Device Circuits or two Notification Appliance circuits (NACs). When configured as NACs, circuits IDC/NAC1 and IDC/NAC2 share a common signal source. When configured as NACs, circuits IDC/NAC5 and IDC/NAC6 share a common signal source. Two jumpers on the module select the signal source for each pair of NACs. Set jumpers JP1, JP2, JP3, & JP4, then install the module on the rail. The jumpers have no effect when IDC/NAC circuits are used as input circuits.

Before connecting the Traditional I/O Zone Module to the field wiring, test the field wiring. When a circuit checks out properly, connect it to the appropriate terminals. Polarity for NAC circuits is indicated for normal monitoring of the circuit's electrical integrity.

TB1 and TB2 are removable for ease of wiring. All wiring is power limited and should be routed through the notches at the right front of the chassis.

Close the module display door. Latch the door by sliding the upper latch up and the lower latch down.

### 3-IDC8/4



INSTALLATION SHEET:

**3-IDC8/4**  
**Traditional Zone I/O Module**

INSTALLATION SHEET P/N: 270492 FILE NAME: 270492.CDR

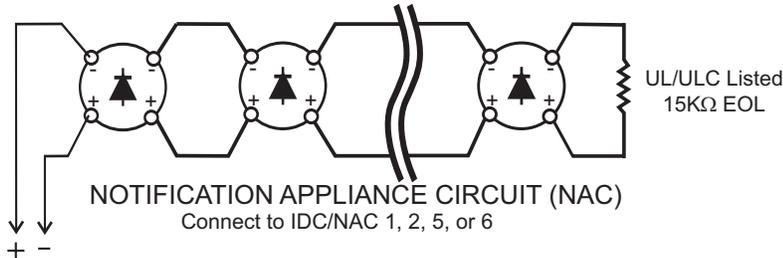
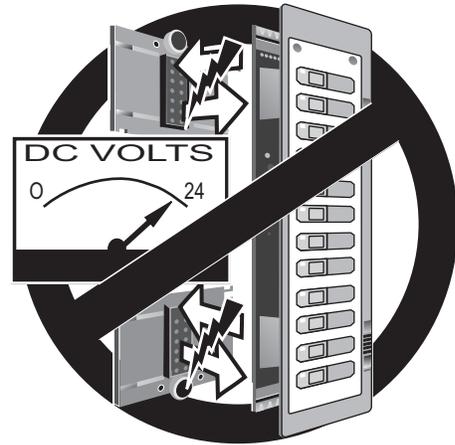
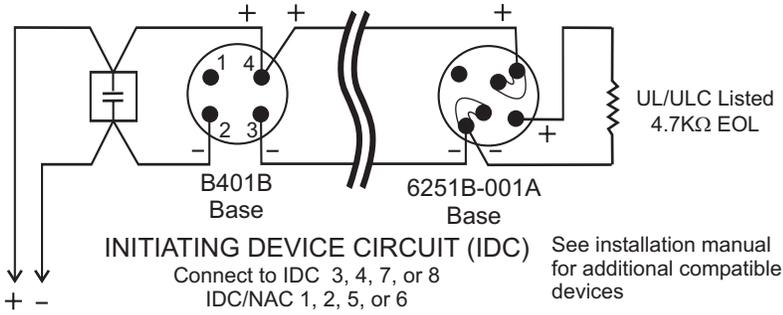
REVISION LEVEL: 3.0

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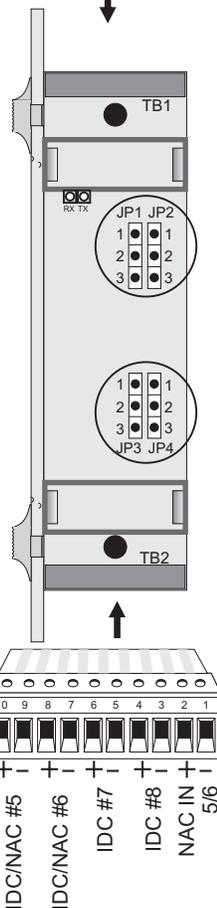
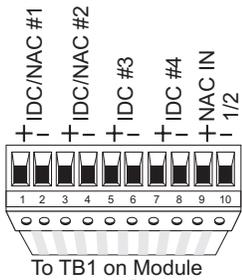
# WIRING



**NOTE**

WHEN WIRING MODULE FIELD WIRING PLUG, SCALLOPED EDGE MUST FACE DOWN AND TERMINAL CLAMP SCREWS FACE UP. PINS ARE NUMBERED RIGHT TO LEFT.

Observe static sensitive material handling practices.



**JUMPER SETUP**

Circuits	Signal Source	
	External via Terminals	Internal 24 VDC (3.5A max. per NAC pair)
IDC/NAC 1/2	JP1 to 1 & 2 JP2 to 1 & 2	JP1 to 2 & 3 JP2 to 2 & 3
IDC/NAC 5/6	JP3 to 2 & 3 JP4 to 2 & 3	JP3 to 1 & 2 JP4 to 1 & 2

- Wiring Notes**
- For maximum wire resistance, refer to Appendix B in EST3 Installation and Service Manual (P/N 270380).
  - Maximum #12 AWG (2.5 mm<sup>2</sup>) wire; minimum #18 AWG (0.75 mm<sup>2</sup>).
  - Shields (if used) must be continuous and free from Earth Ground.
  - IDC/NACs 1 & 2 share the same input source. Set both JP1 & JP2 to 1/2 for the external source (TB1-9 & 10). Set JP1 & JP2 to 2/3 for the internal 24 VDC source. NOTE: There is a 3.5 amp total limit for both NAC1 and NAC2. External sources must be power limited.
  - IDC/NACs 5 & 6 share the same input source. Set both JP3 & JP4 to 2/3 for the external source (TB2-1 & 2). Set JP3 & JP4 to 1/2 for the internal 24 VDC source. NOTE: There is a 3.5 amp total limit for both NAC5 and NAC6. External sources must be power limited.
  - All wiring is supervised and power limited.
  - Refer to application bulletin (P/N 270145) for detector installation guidelines.
  - Polarity shown in supervisory mode.
  - Synchronization of Genesis strobes is accomplished through the use of G1M, G1M-RM, SIGA-CC1S, and SIGA-MCC1S modules. Refer to EST3 ULI/ULC Compatibility List (P/N 3100427).