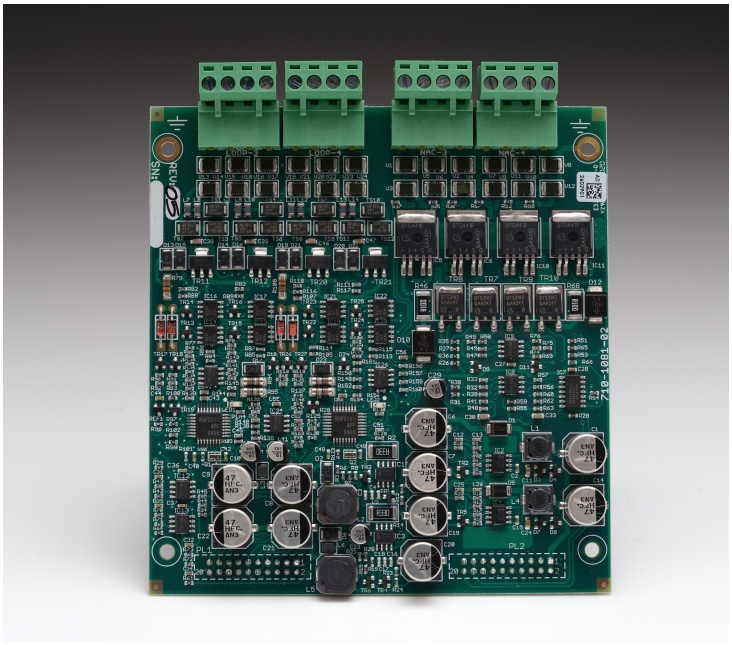
AX-LPD and AX-NAC Module

The Advanced AX-LPD module provides SLC and NAC circuit expansion of an existing AX-CTL-2 fire alarm control panel. The module provides two Class X, A or B signalling line circuits (SLCs) and two notification appliance circuits (NACs). Communication to field devices attached to the SLCs is via an advanced, 100% digital protocol which has the advantages of being highly immune to noisy environments and the ability to operate over non-shielded cable without causing interference problems with sensitive electronic equipment.

Each SLC circuit supports up to 126 analogue 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.

The AX-NAC module provides NAC circuit expansion of an existing AX-CTL-2 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 their exceptional regulation and high rating, the NAC outputs provide compatibility with virtually any listed notification appliance.



AX-LPD

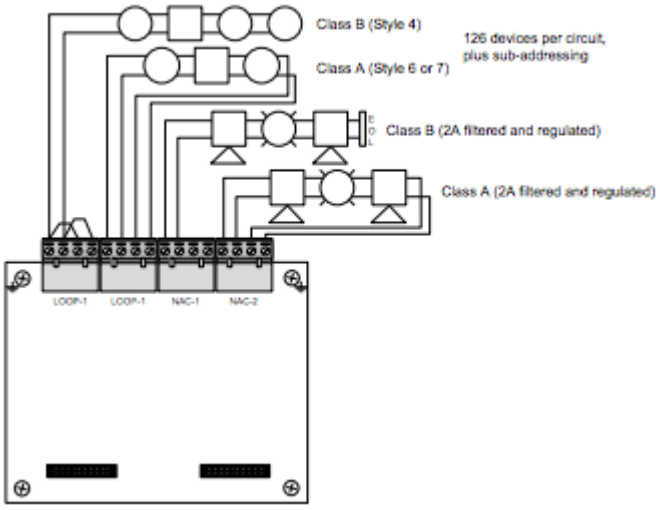
Features

- 2 SLC/NAC or 2 NAC Expansion
- “DynamiX” I/O Relationship Programming
- Multi-Pattern & Two-Stage NAC Control
- 252 Analogue Addressable Point Expansion
- Automatic Detector Testing with Maintenance Alert
- Automatic Drift Compensation per Detector
- Alarm Verification and PAS
- Class X, A or B SLC Operation (126 devices per SLC)
- SLC’s Support Loop-Powered Technology
- 2A rated Class A or B NAC Circuits
- Multi-Pattern and Two-Stage NAC Circuit Control
- Synchronised 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

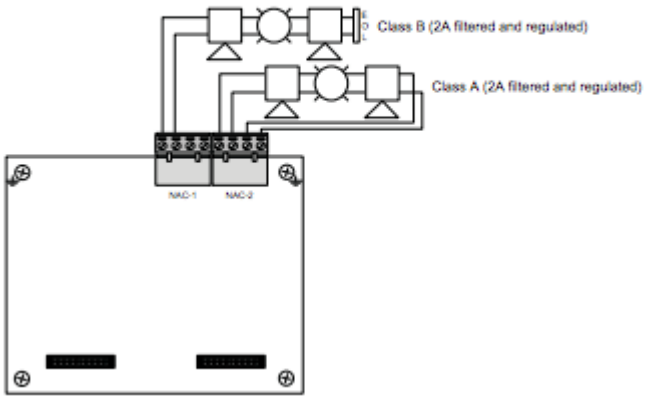
Listings and Approvals

- Certified to UL864 10 th Edition – File No. **S35979**
- CSFM Approved: Pending
- NYCFD COA: Pending

Wiring Diagrams



(2-Way SLC/NAC)



(2-Way NAC)

Specification

SLC Loop	
Class (Style)	Class X, A or B
Voltage	24 VDC
Minimum Return Voltage	17 VDC
Current	0.5A
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	3 2 ° 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

AX-LPD	2-Way SLC/NAC
AX-NAC	2-Way NAC

9564 Yellowhead Trail NW, Edmonton AB, T5G 0W4, Canada T: 1 (866) 462-7100 E: info@harding-tech.com W: www.harding-tech.com