



AX Series

INTELLIGENT I/O RELAY OUTPUT & SWITCH MONITOR



Unique Features:

- UL Listed
- SLC Loop-Powered & Sub-Addressable
- 4" Square or 2-Gang Electrical Box Mounting
- Flexible Programming
- Durable Construction
- Cost-Effective & Trouble-Free Installation

Description:

Advanced Fire System's Intelligent Relay Output & Switch Monitor (AX-I/O) is an application specific addressable module for use with the AX Series Intelligent Fire Alarm Control Panel. Each module is SLC loop powered, eliminating the need for additional field wiring and external power supplies.

Designed for installation on Advanced Fire System's AX Series SLC (signaling line circuit) the AX-I/O provides a single initiating device circuit (IDC) input, an independently controlled Form-C relay contact output, and an unmonitored optically isolated voltage input. The AX-I/O utilizes Advance Fire Systems unique sub-addressing for both the independently controlled relay and the optically isolated voltage input. By sub-addressing these I/O features, AX Series system point capacities are expanded with installation, programming, and commissioning time minimized. The AX-I/O mounts to the front of a standard 4" square or 2-gang electrical outlet box.

The IDC input of the AX-I/O is capable of being wired Class "A" (Style D) or Class "B" (Style B) and can monitor a single contact device or a group of devices. Contacts can be normally open (N.O.) or normally closed (N.C.) ranging from heat detectors, linear heat detectors, 4-wire conventional smoke detectors, waterflow switches, tamper switches, manual pull stations, switch input points for control, or any other supervised input requirement. Though the IDC input can monitor any number of contact devices, it is not recommended not to mix alarm, supervisory, or security contacts on the same IDC module circuit.

Compatible with the AX Series Dynamix I/O Relationship Programming, the relay output of the AX-I/O can be individually assigned to any input or output relationship, output group, timing function, gated function, invert operation, etc. to perform project specific control operations. Ideally suitable for elevator control, HVAC shutdown, door holder release, or similar ancillary functions, the AX-I/O relay is rated 24 VDC @ 1 Amp (resistive) or 30 VAC .5 Amp (resistive).



Features:

- Supervised Initiating Device Circuit (IDC)
- Class A (Style D) or Class B (Style B) Wiring
- Independently Controlled Form-C Relay Contact
- AX Series Dynamix I/O Relationship Programming
- IDC Activation Status LED
- Optically Isolated Voltage Input
- Cost-Effective & Trouble-Free Installation

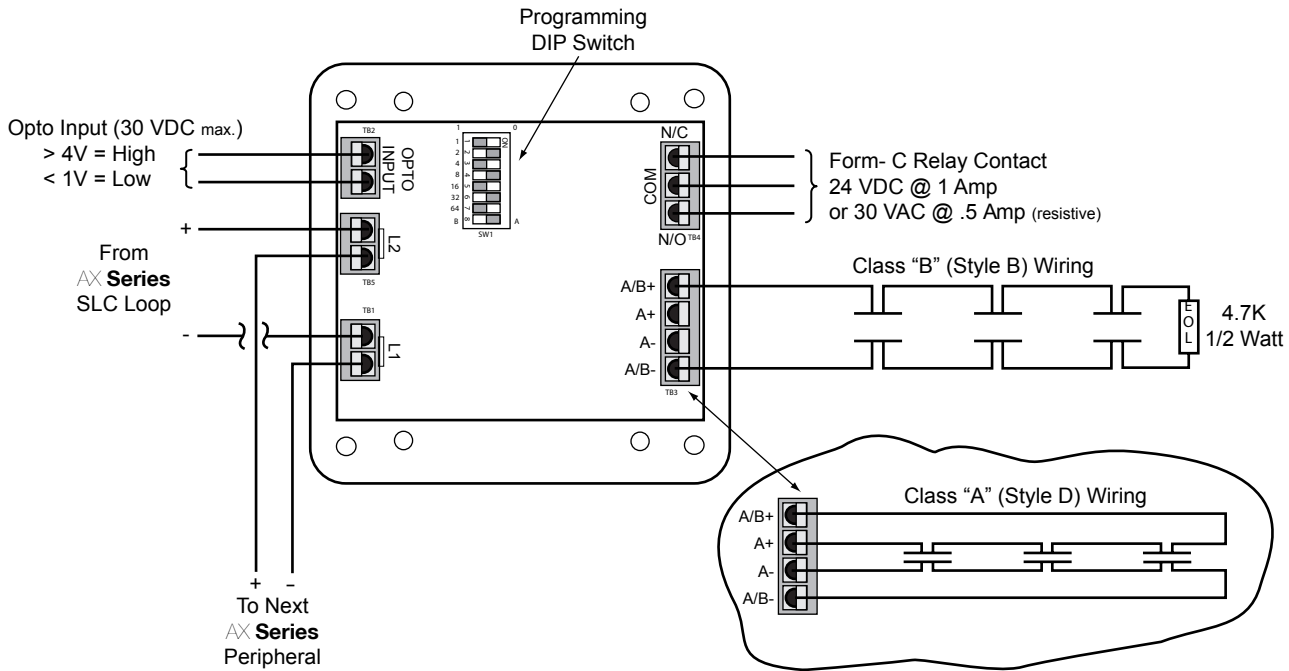
Product Data Sheet



The optically isolated voltage input of the AX-I/O is utilized for special applications when unsupervised status monitoring of a voltage input is required (i.e. HVAC status, ancillary product status, manufacturing process equipment status, etc.).

Each AX-I/O incorporates an integral eight position programming DIP switch which allows for device addressing and wiring classification definition. The module contains a red status LED which illuminates steady during active condition of the IDC input.

I/O Relay Output & Switch Monitor - AX-I/O



Ordering Information	
55000-820ADV	AX-I/O, I/O Relay Output & Switch Monitor

I/O Relay Output & Switch Monitor Specifications	
Voltage	17-28 VDC, w/Communication Pulses 5-9 VDC
Operating Current	
Quiescent	0.85 mA
Alarm	0.85 mA
w/LED's	5.85 mA
Line Impedance	100 Ω
Wiring Classification	Class A (Style D) or Class B (Style B)
End-of-Line Resistor	47 KΩ, 0.5 Watt (Class "B" only)
Relay Output Rating	Form-C 24 VDC @ 1 Amp or 30 VAC @ .5 Amp (resistive)
Optically Isolated Input Voltage Input	Unsupervised 35 VDC (Max) Programmable Active High (>4V) or Low (<1V)
Wiring	Screw In-Out Terminals
Mounting	4" Square or 2-Gang Electrical Outlet Box
Dimensions (Diameter & Height)	4 1/2"W x 4 1/2"H x 1"D
Weight	2.8 oz
Operating Temperature	32°-120° F (0°-49° C)
Humidity	10-93% (non-condensing)



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