

Fire detection and evacuation solutions that save lives.

## Ampac Zone Input Device

- ✓ Conventional Detection to Addressable Loop Interface
- ✓ Monitored Input with selectable EOL
- ✓ Built in Short Circuit Isolator
- ✓ DIN Rail Mounting
- ✓ Diagnostic LED Indications
- ✓ Loop Powered
- ✓ Compatible with FireFinder Plus & LoopSense
- ✓ Activfire Certified

### Product Overview

The Zone Input Device is designed to allow up to 40 conventional detectors to be interfaced to the Ampac range of Apollo analogue addressable control panels.

The Zone Input circuit is compatible with Series 60/65 and Orbis range of detectors and is fully monitored for alarm state, open & short circuit fault conditions. The Ampac NZ Heat detector range is also fully compatible.

The programmable End of Line (EOL) feature, incorporating Alarm Verification Facility (AVF), provides options for 3K3Ω or 6K2Ω resistor values. To facilitate support for detector head removal, a 10uF capacitor can also be selected for use with the appropriate diode bases on the conventional detection circuit.

The Ampac Zone Input Device is loop powered and incorporates bi-directional isolation circuitry to provide protection against detection loop short circuits. On board LED status indication is provided for service and commissioning purposes.

Two x 3mm fixing holes and a 35mm DIN mount fixing assembly are provided enabling the device to be mounted direct to an enclosure backplate.

### Programming

The Zone Input Device can be programmed to function in any one of the following modes:

- ✓ Normal (latching alarm)
- ✓ Non-latching (when used as a monitoring device)
- ✓ Self Reset
- ✓ Dependency A,B and C (LoopSense only)
- ✓ Investigation (LoopSense only)
- ✓ Alarm Verification Facility (AVF) (FireFinder only)



### Typical Applications

- ✓ Legacy Conventional Fire System Conversions
- ✓ Hybrid Addressable & Conventional Systems
- ✓ Clean Contact Monitoring of Plant Equipment
- ✓ System Interlocks

### Item Numbers

4210-0058	Zone Input Device
4210-0034	ABS Interface Enclosure
4210-0035	Mild Steel Interface Enclosure
4210-0159	Fire Alarm Interface Label for 4210-0035

### Device Status Indications

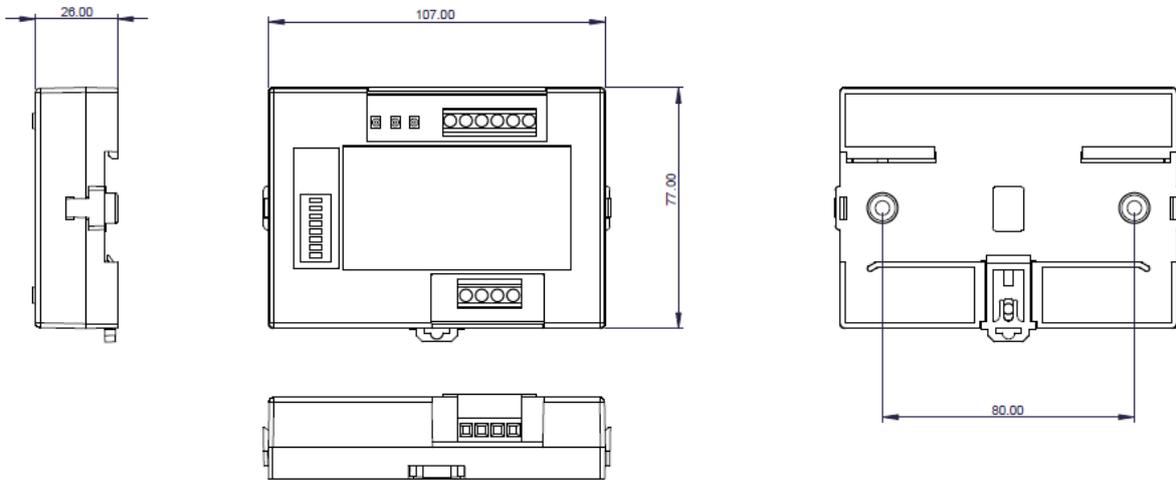
Function LED	Colour	Mode	Description
Alarm	Red	Off	No Alarm
Alarm	Red	On	Input circuit is in alarm
S/C Poll	Green	Flash	Device is being polled correctly
S/C Poll	Green	On	Loop Short Circuit detected
Fault	Yellow	On	Zone Input in fault

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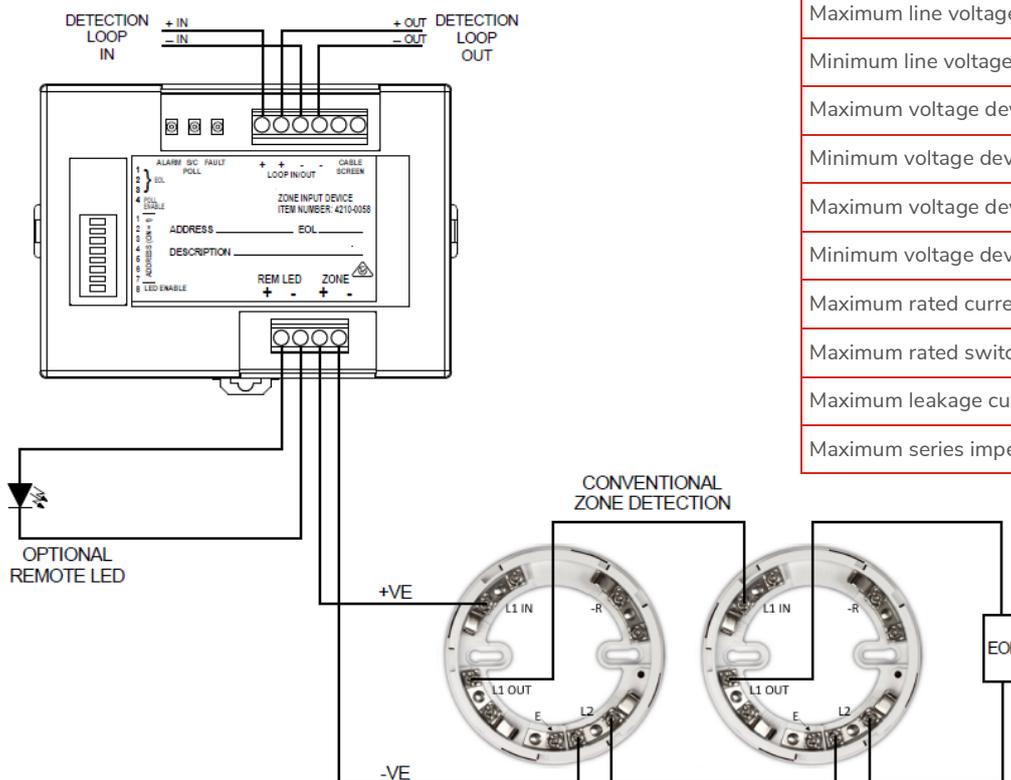
**Specifications**

Operating Voltage	17 to 28V dc		
Max current at 24Vdc	3K3 EOL	6K2 EOL	10µF EOL
Quiescent current	7.5mA	5mA	2mA
Alarm condition (no detectors connected & polling LED disabled)	23mA	23mA	23mA
Operating Temperature	- 20°C + 70°C		
Humidity	0 to 95% RH (no condensation or icing)		
Weight	55g		
Standards & Approvals	AS ISO 7240.17:2021 and AS ISO 7240.18:2018 - Activfire certificate # afp-3691		

**Dimensions**



**Wiring Schematic**



**Short Circuit Isolator Specification**

Maximum line voltage - $V_{max}$	28Vdc
Minimum line voltage - $V_{min}$	17Vdc
Maximum voltage device isolates - $V_{SO max}$	16Vdc
Minimum voltage device isolates - $V_{SO min}$	12Vdc
Maximum voltage device reconnects - $V_{SC max}$	17Vdc
Minimum voltage device reconnects - $V_{SC min}$	12Vdc
Maximum rated current - $I_{c max}$	1A
Maximum rated switching current - $I_{s max}$	3.3A
Maximum leakage current - $I_{L max}$	60mA
Maximum series impedance switch closed - $Z_{C max}$	100mΩ