

Cerberus® PRO Modular system

Zone-Indicating Card Model ZIC-4A

Architect & Engineer Specifications

- Operates audible or visual notification appliances
- ☐ One (1) or (2) two-channel voice operation
- ☐ Operates audio speakers (25V or 70VRMS)
- ☐ Three (3) unique signals from each circuit
- ☐ Available bell-follower application
- ☐ Four (4) `Class A' or `Class B' circuits
- ☐ 24 VDC at 3.0 Amps per circuit
- □ Built-in strobe synchronization
- ☐ City-tie or leased-line output
- □ Coded audibles available
- □ Fully programmable
- □ On-board microprocessor
- ☐ Automatic / manual control
- ☐ March time / Uniform Code 3
- □ Selectable degrade operation
- ☐ Built-in, ground-fault detection
- ☐ Silenceable / non-silenceable option
- □ Circuits power limited, per NEC 760
- □ NFPA 13, pre-action and deluge
- □ NFPA 2001, FM-200 Releasing
- □ Releasing service
 - FM Approved for single and double interlock, pre-action system Operation
- ☐ UL 864 9th Edition Listed & ULC Listed:

Product Overview

The Zone-Indicating Card (Model ZIC-4A) provides four (4) fully supervised and programmable output circuits for use on Cerberus PRO Modular fire alarm control panels (FACPs).

Model ZIC-4A supplies four (4) 'Class B' or 'Class A'-type output circuits — power limited to 3.0 Amps maximum per circuit. Each circuit can be independently programmed for use with listed audible or visual notification appliances, listed emergency-audio speakers, municipal tie boxes, leased lines, or as releasing circuits.

Model ZIC-4A can send audio to additional speaker zones, via the Model EBA2004-A1 booster amplifier.

Model ZIC-4A plugs into one (1) slot in the Model CC-5 or Model CC-2 Card Cage, and has on-board LEDs for system status and troubleshooting. Indication of power, communication, internal operation, and ground-fault conditions are provided, as well as indication of circuit activation or Trouble conditions.

All system-status conditions are also reported to each Cerberus PRO Modular system's Operator Interface (OI). Each circuit or output may be controlled automatically with system-logic programming, via the custom-configurable programming tool, *Zeus-C*, or manually, using the Cerberus PRO Modular panel keypad on the OI.

Automatic control may also be time based. Each circuit or output can be manually `Armed' or `Disarmed' via the OI keypad.

When any circuit or output has been 'Disarmed', the OI display will indicate the affected circuit or output, and the 'Partial 'System Disable' LED will illuminate – until the circuit or output has been returned to the 'Armed' condition. Model ZIC-4A circuits can also be manually energized or de-energized when in the 'Disarmed' state, via the OI.



Model ZIC-4A contains a microprocessor, which allows notification-circuit outputs to function in a degrade mode – even if the main Cerberus PRO Modular panel processor or the local-network communication link has failed. In a degrade mode, Model ZIC-4A will respond to an `Alarm' or `Trouble' from any intelligent-addressable initiating device or conventional-zone initiating device connected in the same local enclosure.



Product Overview – (continued)

Standard NAC Zone - Each of the four (4) circuits on Model ZIC-4A can be configured for use as a standard notification appliance circuit (NAC). The NAC output can be used as a steady, strobesynchronized, or zone-coded output. Available coding includes ANSI Temporal, March Time 120-pulse-per-minute (PPM), March Time 60 PPM, March Time 30 PPM, Canadian Two-stage 30 PPM, Canadian Two-stage 120 PPM and custom coding.

> Outputs may be programmed through logic to transmit up to three (3) different signal types, depending on event priority. For instance, the same circuit can be programmed to transmit the ANSI Temporal pattern for evacuation, March Time 120 PPM for tornado notification, and a custom code for recall.

Standard

Speaker Zone -Each of the four (4) circuits on Model ZIC-4A can be configured for use as a standard speaker circuit in single or dual-channel systems. Model ZIC-4A can be used with the Model ZAM-180 bulk amplifier, or Model ZAC-40 amplifier card. Each circuit on Model

ZIC-4A is limited to 96 Watts per zone.

Each of the four (4) circuits on Model ZIC--4A can be configured for use as a releasing Releasing Zone -

circuit. This circuit can be used to release Sinorix® 227 or 1230 agents. For proper supervision of a releasing circuit, the Model REL-EOL module must be used. Model REL-EOL can use power directly from the Cerberus PRO Modular system.

No external, regulated power supply is required.

Municipal Tie -Each of the four (4) circuits on Model ZIC--4A can be configured so that it can be connected to and activate a municipal city tie box. The circuit meets the requirement of

some jurisdictions to allow the box to be reset before the FACP.

A leased-line module (Model LLM-1) is required for this feature.

Each of the four (4) circuits on Model ZIC-4A can be configured for connection to a leased Leased Line line. The circuits can be programmed to transmit 'Alarm', 'Supervisory', or 'Trouble' signals.

A leased-line module (Model LLM-1) is required for this feature.

Bell Follower -Each of the four (4) circuits on Model ZIC-4A can be configured as a NAC that can follow

the input from another NAC in an external FACP. Circuit 1 on a Model ZIC-4A card within a Cerberus PRO Modular panel system enclosure can be configured as the Bell Follower –

Primary and is connected to the external NAC.

Any other ZIC-4A circuit in that enclosure can be configured to follow the state of the Primary Bell Follower. This feature can be used to synchronize coded or ANSI Temporal patterns for audible sounds with another FACP.

Controls and Indicators

Controls and indicators				
RESET switch:	Re-initializes Model ZIC-4A card only			
POWER LED:	Indicates the power is applied to Model ZIC-4A			
CARD-FAIL LED:	Alights when the card microprocessor has failed			
CAN-FAIL LED:	Illuminates when the CAN communication fails and Model ZIC-4A is in degrade mode			
HNET-FAIL LED:	Illuminates when the HNET communication fails and Model ZIC-4A is in degrade mode			
GND-FAULT LED:	Indicates the detection of a ground - fault condition (either negative or positive) on the field wiring of Model ZIC-4A			
ZONE- ACTIVE LEDs:	Illuminates to indicate the zone has been activated either automatically or manually. There is one (1) LED for each zone			
TROUBLE LEDs:	Indicates the presence of a `Trouble' condition (either an open circuit or a short circuit) on the zone. There is one (1) LED for each zone			

Electrical Ratings

24V Back Plane or External Power Current Draw:	See: Note below
24V Current Draw: [Screw Terminal]	Total Device Current
6.2V Current Draw: [Back Plane]	0
24V Current Draw: [Standby]	89mA

NOTE:

The 24V current is dependent on the wiring type and usage of each ZICCkt setting for Model ZIC-4A.

The table found in the left-hand column of the next page contains the required current draws for the wiring type and usage of each zone:

Controls and Indicators					
ZIC-4A Current Requirement [ZIC-4A standby current: 89mA]					
Zone Usage	Output Current Requirement	'Class A' Current Requirement			
Not Used	0	0			
NAC	17mA	6mA			
Strobe – Sync.	17mA	6mA			
Strobe – Unsync.	17mA	6mA			
Municipal Tie – USA	34mA	0			
Municipal Tie – Canada	17mA	0			
Releasing Zone	17mA	0			
Leased Line – Alarm	17mA	0			
Leased Line – Trouble	17mA	0			
Leased Line – Supervisory	17mA	0			
Bell Follower – Primary	0	0			
Bell Follower – Secondary	17mA	6mA			
Speaker Zone	34mA	6mA			
NAC – Coded	17mA	6mA			

Details for Ordering					
MODEL OR TYPE	PART NUMBER	PRODUCT			
ZIC-4A	500-033050	Zone Indicating Card			
REL-EOL	500-696359	End-of-Line Releasing Module			

Temperature and Humidity Range

Model ZIC-4A is UL | ULC Listed for indoor dry locations within a temperature range of $120^{+}/3^{\circ}F$ ($49^{+}/2^{\circ}C$) to $32^{+}/3^{\circ}F$ ($0^{+}/2^{\circ}C$) and a relative humidity of $93^{+}/2^{\circ}K$ at a temperature of $90^{+}/3^{\circ}F$ ($32^{+}/2^{\circ}C$).

This Page Left Intentionally Blank NOTICE - The information contained in this data-sheet document is intended only as a summary, and is subject to change without notice. The product(s) described here has/have a specific instruction sheet(s) that cover various technical, limitation and liability information. Copies of install-type, instruction sheets – as well as the General Product Warning and Limitations document, which also contains important data, are provided with the product, and are available from the Manufacturer. Data contained in the aforesaid type of documentation should be consulted

with a fire-safety professional before specifying or using the product.

Any further questions or assistance concerning particular problems that might arise, relative to the proper functioning of the equipment, please contact the Manufacturer.

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Cerberus® PRO

Siemens Industry, Inc.
Building Technologies Division
8 Fernwood Road • Florham Park, NJ 07932
Tel: (973) 593-2600

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