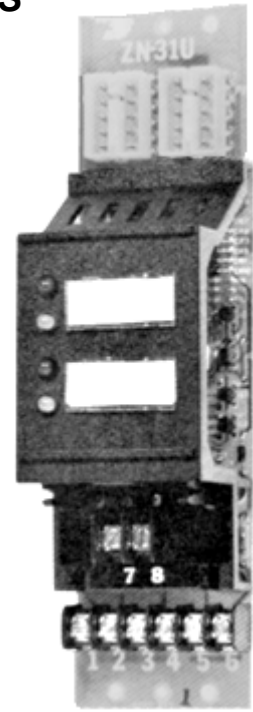


System 3™

Input Module Model ZN-31U

ARCHITECT AND ENGINEER SPECIFICATIONS

- Light-emitting diode (LED) *Alarm* indicator
- LED *Trouble* indicator
- Dual zoning
- Placement supervised
- Solid-state circuitry
- **UL 864 9th Edition Listed;**
FM Approved



Product Overview

The Siemens – Fire Safety dual-contact zone module (Model ZN-31U) is designed to provide two (2) detector line circuits that incorporate contact-type devices. These devices may be manual boxes, waterflow switches, thermal detectors, relay contacts, etc. Each circuit provides 'Class B' supervision. Model ZN-31U also contains two (2) **red** LED *Alarm* lamps and two (2) **yellow** LED *Trouble* lamps – one of each for each circuit.

Upon operation of any shorting-type device installed on the detection circuit, the system will lock into *Alarm* condition, initiating the start of the sequential functions designed into the system, such as: ringing alarm bells; operating coded alarm transmitters; closing doors; shutting down fans and equipment; recalling elevators, etc. In addition to the system *Alarm*, the **red** LED alarm lamp on the face of the module for the particular zone in *Alarm* mode will be illuminated.

Model ZN-31U also provides a current-limited output signal for the zone in *Alarm* mode for activating a supplementary *Alarm* relay module or annunciator module. The zone-*Alarm* indicating circuits and signaling lamps are reset from the System 3 fire-alarm control panel (FACP).

The **yellow** LED *Trouble* lamps (one for each circuit) will illuminate should a break occur in the detector lines. Such a condition will initiate a system trouble signal. The **yellow** LED *Trouble* indicators will be extinguished upon restoration of circuit integrity or upon receipt of any system *Alarm* command.

Both **red** and **yellow** LEDs can be lamp tested from the System 3 FACP.

Model ZN-31U is placement supervised, providing a system *Trouble* signal upon removal from the system.

System 3™ Input Module **3108**

Optional Features

Model ZN-31U can be made to operate in the following ways:

- ✓ Normal 'Lock-In' mode
- ✓ Non-'Lock-In' mode

Temperature and Humidity Range

Model ZN-31U is UL 864 9th Edition Listed for indoor dry locations within a temperature range of $120\pm 3^{\circ}\text{F}$ ($49\pm 2^{\circ}\text{C}$) to $32\pm 3^{\circ}\text{F}$ ($0\pm 2^{\circ}\text{C}$) and at a relative humidity of $93\pm 2\%$ at a temperature of $90\pm 3^{\circ}\text{F}$ ($32\pm 2^{\circ}\text{C}$).

Electrical Ratings

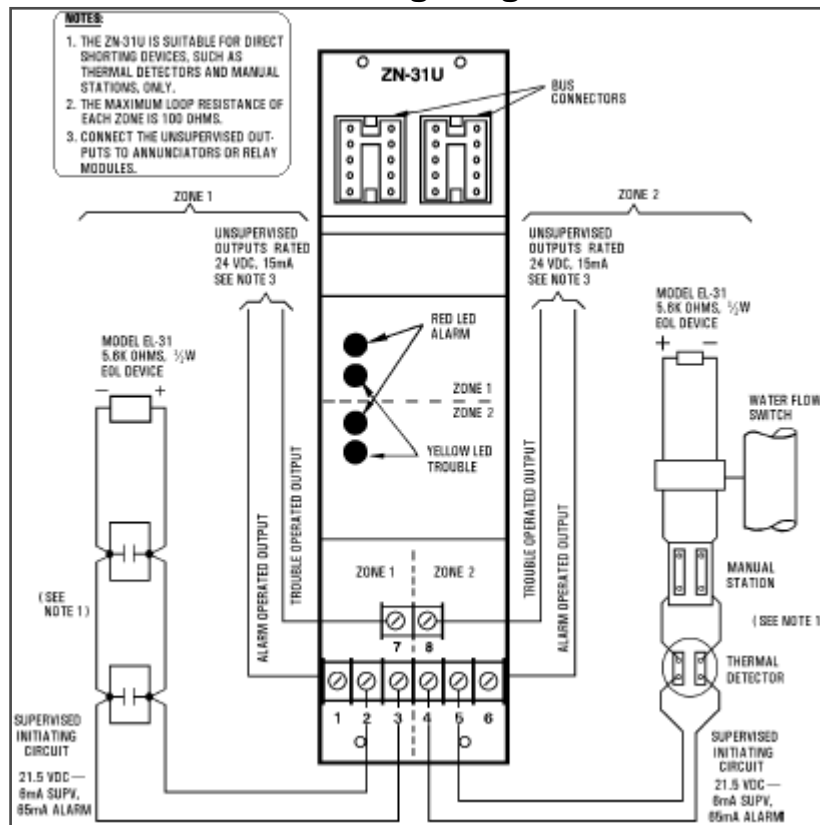
Current Requirement:

Normal:	15mA
Alarm:	110mA max. per circuit

Details for Ordering

Model Number	Part Number	Description	Shipping Weight	
			Lb.	Kgs.
ZN-31U	500-886170	Dual-Contact Zone Module	1	0.45

Wiring Diagram



Notice: This marketing data sheet is not intended to be used for system design or installation purposes. For the most up-to-date information, refer to each product's installation instructions.