
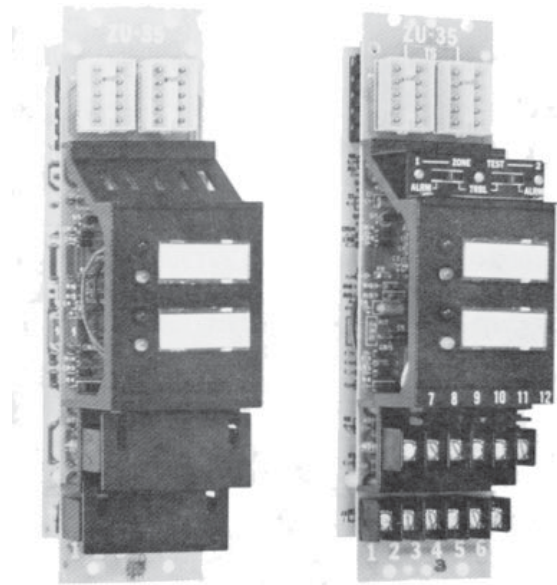


System 3™ Input Modules

Model ZU-35, ZU-35DS, ZU-35TS Dual Zone

ENGINEER AND ARCHITECT SPECIFICATIONS

- Complete Supervision Of Detection Circuits
- Class A (Style D) and Class B (Style B)
- Accommodates Ionization, Photoelectric, Thermal, Flame Detectors, Manual Stations and Other Contact Devices
- Alarm And Trouble LEDs Per Zone
-  Listed, FM, CSFM, and NYMEA Approved
- ZU-35TS Coast Guard Approved



ZU-35

ZU-35DS/ZU-35TS

Description

ZU-35

The Siemens Building Technologies, Fire Safety Division Dual Zone Module Model ZU-35, is designed to provide two independent initiating circuits. Up to thirty standard Fire Safety ionization and photoelectric detectors or flame detectors (except model DF-3, DF-3A and DF-30) are supported by these modules. Additionally, any quantity of shorting type contact devices such as manual stations and thermal detectors also can be accommodated and intermixed on each initiating circuit.

Screw Terminals are provided for each power limited circuit, in either NFPA Class A (Style D) or Class B (Style B.)

ZU-35DS

In addition to all the same features of the ZU-35, each zone is provided with a disconnect switch which will disable the zone. This action will cause a zone trouble and a system trouble signal until the switch is returned to normal.

ZU-35TS

The ZU-35TS is furnished with a 3 position momentary contact test switch for each zone. The normal switch position is in the center, one side position will test the zone trouble signal and the other will test a zone alarm signal. This is a requirement for US Coast Guard approval for use on marine systems, and the module is Coast Guard approved.

Operation

Upon operation of a detector or shorting type device installed on the initiating circuit, the module will lock into an alarm condition, initiating the start of the sequential functions designed into the system. These functions may include sounding audible devices, operating alarm transmitters, closing doors, shutting down fans and equipment, recalling elevators, and other similar functions required for life and property safety.

In addition to the system alarm, a red Alarm LED, on the face of the dual zone module will be illuminated for that particular detection circuit. A trouble on either detection circuit will be similarly annunciated with a yellow LED, one for each circuit.

The module supplies a current limited output signal for the circuit in alarm providing for activation of supplementary modules or annunciators.

The dual zone module occupies one module space in the System 3 rail structure and is interconnected via a ten-pin plug and harness assembly.

The Dual Zone Module Model ZU-35/DS/TS is Underwriters Laboratories Inc. listed and FM approved.

This equipment is approved for operation over the temperature range of 0°C to 49°C.

Engineer and Architect Specifications

Dual initiating circuit line monitoring shall be provided by a Fire Safety Dual Zone Module, Model ZU-35, ZU-35DS or ZU-35TS. This module shall be system interconnected by a ten-pin plug and harness and shall be operable with the main control panel.

Each zone circuit shall accommodate up to thirty current model Fire Safety detectors (except for model DF-30 which is limited to 5 devices.) Any quantity of shorting type contact devices such as thermals and manual stations can also be intermixed on a zone circuit. Each detection circuit shall consist of either NFPA Class A (Style D) or Class B (Style B.)

Upon operation of any initiating device installed in the circuit, the module shall lock into alarm and the red LED alarm indicating lamp (one for each circuit) mounted on the face of the module shall illuminate. A yellow LED trouble indicator (one for each circuit) also on the face of the module shall illuminate should a break occur in the initiating circuit wiring or a detector be removed from the circuit.

Receipt of alarm conditions shall have priority over trouble and shall be annunciated over any trouble conditions.

All LED indicators shall be lamp tested from the system control panel.

The Model ZU-35, ZU-35DS or ZU-35TS shall be placement supervised and shall be Underwriters Laboratories Inc. listed and FM approved.

Electrical Ratings

Rated: 18.3 - 23.5 VDC

Current Requirement:

Supervisory 9 mA

Alarm 275 mA

Ordering Information

Model Number	Description	Shipping Weight	Part Number
ZU-35	Dual Zone Module	1 lb. (.45 kg.)	500-888583
ZU-35DS	Dual Zone Module with On-Off Zone Disconnect Switch	1 lb. (.45 kg.)	500-887255
ZU-35TS	Same except w/momentary trouble & alarm test switches. U.S.C.G. approved.	1 lb. (.45 kg.)	500-885420

Typical Wiring for ZU-35, ZU-35DS, ZU35TS

Class A (Style D) Initiating Circuits

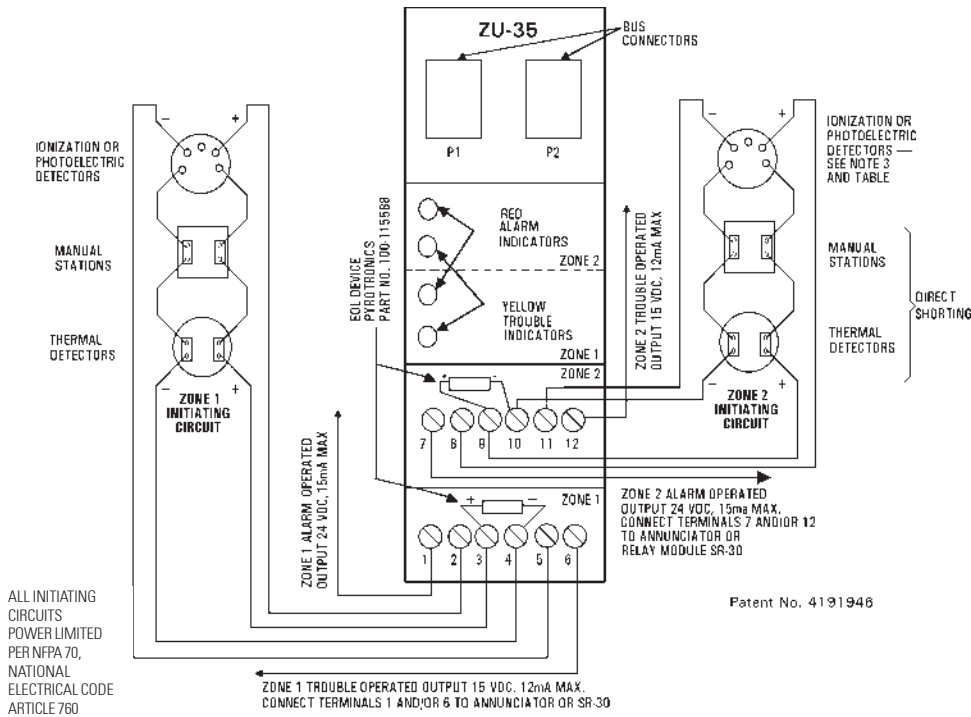
RATED 18 1-23.5 VDC SUPV 9mA
ALARM 275mA

1. Total zone initiating circuit resistance 36 ohms max (9 ohms per line)
2. Unused (spare) zones must have EOL device connected.
3. See individual detector for actual terminal connection numbers. Maximum of 30 detectors (any combination of those listed on the table at the right) are allowed per circuit. Also may use optional detector remote lamp or detector relay as indicated on the applicable detector instructions.

Compatible Detectors

Detector Compatibility Identifier	Base Compatibility Identifier	Installation/Wiring Instructions
DI-3/3H	DB-3	P/N 315-081943
DI-4A/H	DB-4	P/N 315-085257
DI-6	DB-4	P/N 315-085257
DI-A3/A3H	DB-3	P/N 315-081943
DI-B3/B3H	AD-3I/3P	P/N 315-086590
	DA-3SR	P/N 315-094963
	SA-3I/3P	P/N 315-086593
PE-11	DB-11	P/N 315-094198
PE-3/3T	DB-3	P/N 315-090875
PE-3000/300T	DB-3	P/N 315-086441
PEC-3/3T	DB-3	P/N 315-086545

ZU-35/-35DS/-35TS is the compatibility identifier



Class B (Style B) Initiating Circuits

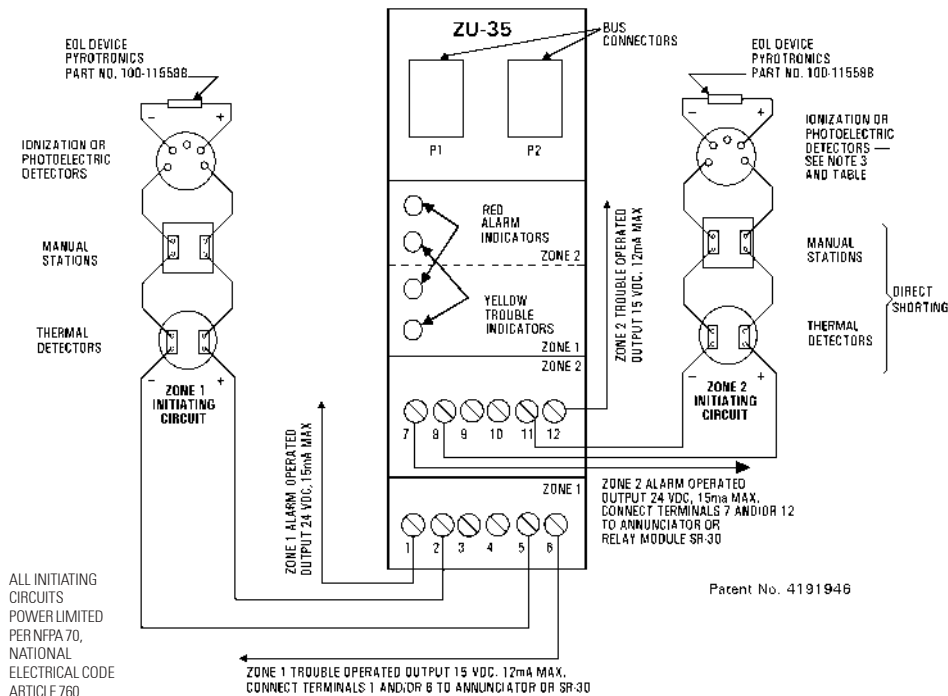
RATED 18 3-23.5 VDC SUPV 9mA
ALARM 275mA

1. Total zone initiating circuit resistance 36 ohms max.
2. Unused (spare) zones must have EOL device connected.
3. See individual detector for actual terminal connection numbers. Maximum of 30 detectors (any combination of those listed on the table at the right) are allowed per circuit. Also may use optional detector remote lamp or detector relay as indicated on the applicable detector instructions.

Compatible Detectors

Detector Compatibility Identifier	Base Compatibility Identifier	Installation/Wiring Instructions
DI-3/3H	DB-3	P/N 315-081943
DI-4A/H	DB-4	P/N 315-085257
DI-6	DB-4	P/N 315-085257
DI-A3/A3H	DB-3	P/N 315-081943
DI-B3/B3H	AD-3I/3P	P/N 315-086590
	DA-3SR	P/N 315-094963
	SA-3I/3P	P/N 315-086593
PE-11	DB-11	P/N 315-094198
PE-3/3T	DB-3	P/N 315-090875
PE-3000/300T	DB-3	P/N 315-086441
PEC-3/3T	DB-3	P/N 315-086545

ZU-35/-35DS/-35TS is the compatibility identifier



NOTICE: The use of other than Fire Safety detectors and bases with Fire Safety equipment will be considered a misapplication of Fire Safety equipment and as such void all warranties either expressed or implied with regard to loss, damage, liabilities and/or service problems.

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Fire Safety

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August 2005
Supersedes sheet dated 4/03