SIEMENS

Data Sheet
Fire Safety & Security Products

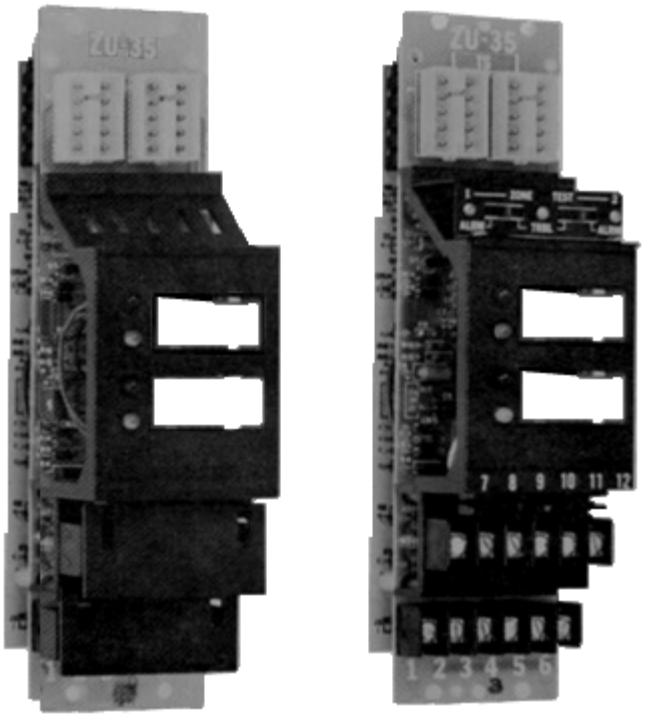
System 3™

Dual-Zone Input Modules

Models ZU-35, ZU-35DS and ZU-35TS

ARCHITECT AND ENGINEER 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* light-emitting diodes (LEDs) per zone**
- **Coast Guard Approved (Model ZU-35TS)**
- **®UL 864 9th Edition Listed; FM, CSFM and NYC Fire Department Approved**



Product Overviews

Model ZU-35

The dual-zone input module (Model ZU-35) from Siemens — Fire Safety is designed to provide two (2) independent initiating circuits. Up to 30 standard Siemens — Fire Safety photoelectric detectors or flame detectors (excluding Models DF-3, DF-3A and DF-30) are supported by Model ZU-35. Additionally, any quantity of shorting-type contact devices — such as manual stations and thermal detectors — 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).

Model ZU-35DS

In addition to all the same features of Model 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 'normal' state.

Model ZU-35TS

Model ZU-35TS is furnished with a three-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 while the other side will test a zone *Alarm* signal command.

This set-up is a requirement for US Coast Guard approval for use on marine systems, and Model ZU-35TS is Coast Guard Approved.

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Building Technologies Division

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* light-emitting diode (LED) on the face of the dual-zone module will be illuminated for that particular detection circuit. A *Trouble* command 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* condition, thus providing for activation of supplementary modules or annunciators.

The dual-zone module, which occupies one (1) module space in the System 3™ rail structure, is interconnected via a 10-pin plug and harness assembly.

The dual-zone module (Model ZU-35 /35DS / 35TS) is Underwriters' Laboratories Inc. Listed and FM Approved.

Temperature and Humidity Range

Products are ®UL 864 9th Edition Listed for indoor dry locations within a temperature range of 120+/-3°F (49+/-2°C) to 32+/-3°F (0+/-2°C) and at a relative humidity of 93+/-2% at a temperature of 90+/-3°F (32+/-2°C).

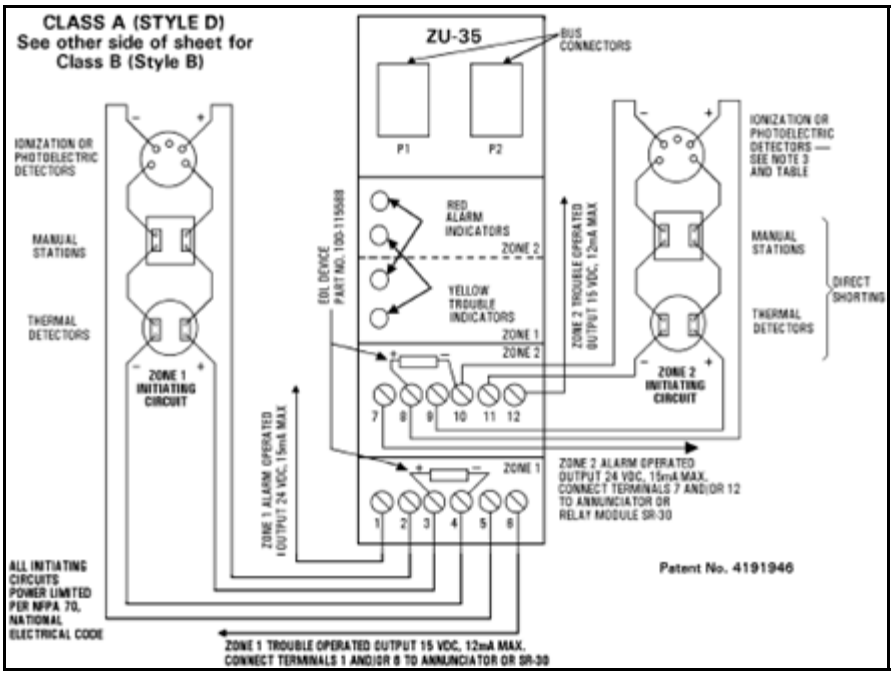
Electrical Ratings

Rated Current Requirement:	18.3 – 23.5VDC
***Supervisory* Current:**	9mA
***Alarm* Current:**	275mA

Details for Ordering

Model Number	Part Number	Description	Shipping Weight	
ZU-35	500-888583	Dual-zone module	1 Lb.	0.45 Kg.
ZU-35DS	500-887255	Dual-zone module with 'On / Off' zone-disconnect switch	1 Lb.	0.45 Kg.
ZU-35TS	500-885420	Dual-zone module with momentary *Trouble* and *Alarm* test switches {U.S.C.G. Approved}	1 Lb.	0.45 Kg.

Wiring Diagram
– Typical configuration for 'Class A' (Style D) –



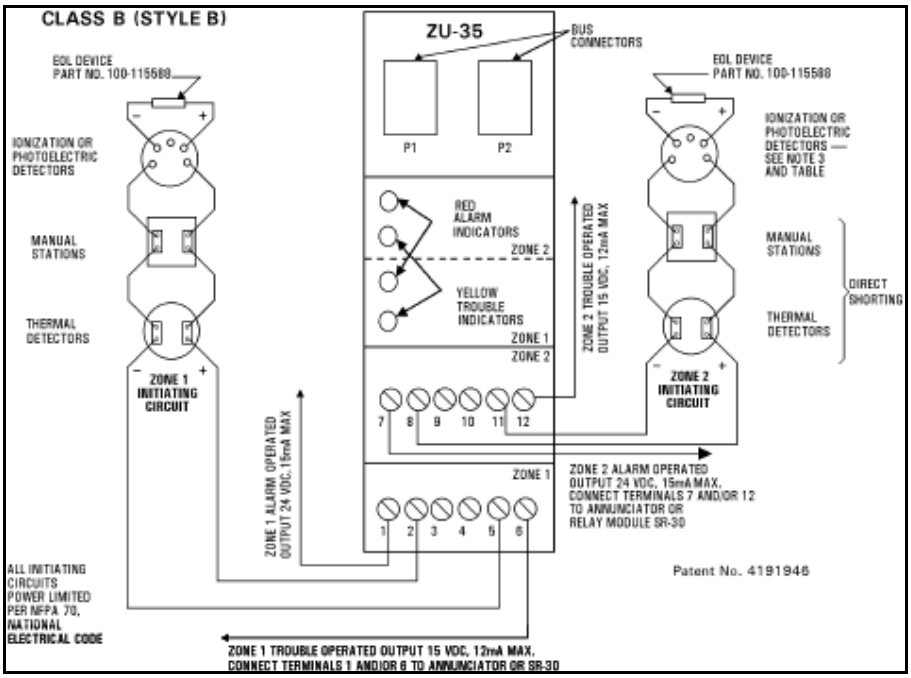
Detector Compatibility Identifier	Base Compatibility Identifier	Installation / Wiring Instructions
DI-3 / 3H	DB-3S	315-081943
DI-4A / H	DB-4	315-085257
DI-6	DB-4	315-085257
DI-A3 / A3H	DB-3	315-081943
DI-B3 / B3H	AD-3I / 3P	315-093234
	AD-3R I / 3RP	315-086591
	SA-3I / 3P	315-086593
DT-11	DB-11	315-095429
	DB-3S with DB-ADPT	315-095429
PE-3	DB-3S	315-090875
PE-11 / 11T	DB-11	315-086441
	DB-3 with DB-ADPT	315-086545

Note: The 'Compatibility Identifier' is Model ZU-35 / -35DS / 35TS.

'Class A' (Style D) Initiating Circuits

- Total zone-initiating-circuit resistance: 36 ohms max (9 ohms per line)
- Unused (spare) zones must have end-of-lease [EOL] device connected
- 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.

Wiring Diagram
– Typical configuration for 'Class B' (Style B) –



Detector Compatibility Identifier	Base Compatibility Identifier	Installation / Wiring Instructions
DI-3 / 3H	DB-3S	315-081943
DI-4A / H	DB-4	315-085257
DI-6	DB-4	315-085257
DI-A3 / A3H	DB-3	315-081943
DI-B3 / B3H	AD-3I / 3P	315-093234
	AD-3R I / 3RP	315-086591
	SA-3I / 3P	315-086593
DT-11	DB-11	315-095429
	DB-3S with DB-ADPT	315-095429
PE-3	DB-3S	315-090875
PE-11 / 11T	DB-11	315-086441
	DB-3 with DB-ADPT	315-086545

Note: The 'Compatibility Identifier' is Model ZU-35 / -35DS / 35TS.

'Class B' (Style B) Initiating Circuits

- Total zone-initiating-circuit resistance: 36 ohms max (9 ohms per line)
- Unused (spare) zones must have end-of-lease [EOL] device connected
- 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.

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.

SIEMENS Industry, Inc.
Building Technologies Division

Fire Safety
8 Fernwood Road
Florham Park, NJ 07932
Tel: (973) 593-2600
FAX: (908) 547-6877
URL: www.SBT.Siemens.com/FIS

Fire Safety
2 Kenview Boulevard
Brampton, Ontario
L6T 5E4 / Canada
Tel: (905) 799-9937
FAX: (905) 799-9858

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