



Pyrotronics

8 Ridgedale Avenue, Cedar Knolls, New Jersey 07927
(201) 267-1300 Cable Address: Baker Pyro

RECEIVED BY LFM3
Date 4/1/81
Log APRIL PG 1 Amc
By Brown
Orig. To
Action Compl. 4/24/81

Applicant... 008361
Check No... 230(3H) - no refund due
Amount... Amendment
Type of Fee...
Date Check Issued... 4/1/81
Received By... Brown

March 24, 1981

U.S. Nuclear Regulatory Commission
Radioisotopes Licensing Branch
Washington, D.C. 20555

Attention: Mr. James A. Jones

References: Pyrotronics, Inc. License No. 29-08864-03
29-08864-04E
29-19100-01E

Dear Mr. Jones:

Pyrotronics, Inc. wishes to add to the above captioned licenses the following new models, DU-3 and DC-1. These units will be manufactured by Pyrotronics Canada, Ltd., Markham, Canada and distributed under the Pyrotronics name in the United States. The Canadian plant is licensed under number 5-2587-82B of the Canadian Atomic Energy Control board.

Each of these models employ the same ionization chamber (single source) as used in many of our other detectors, typically the P5 series and the FB-1 which is listed under license number 29-19100-01E (see attachment #1). From the enclosed literature, you can see the style of the exterior housing is the same as the P5 series of detectors. (Attachment #2).

These models function as follows:

Model DU-3, basic ionization (0.8uCi Americium 241 source) type smoke detector, powered by either 120Vac, 24Vdc or 18Vac. This unit contains SPDT and SPST switch contacts and an internal horn for local annunciation. (See Attachment #3)

Model DC-1, combination type smoke detector using an ionization (0.8uCi Americium 241 source) and photoelectric chambers, powered from a 21Vdc source. The unit contains a horn to provide local annunciation and an output for remote sensing or annunciation. (See Attachment #4).

Also enclosed are the identification labels (see Attachment #5) for each of the above units.

Please remove from license number 29-19100-01E the 14 Ridgedale Avenue, Cedar Knolls New Jersey address. This building is no longer in use by Pyrotronics.

PENDING
7/31/79
3H

vo: ded
07284

B104230522 921109
PDR FOIA
MIS92-414 PDR

8104230522

COPIES SENT TO OFF. OF
INSPECTION AND ENFORCEMENT

James A. Jones

Page 2

3/24/81

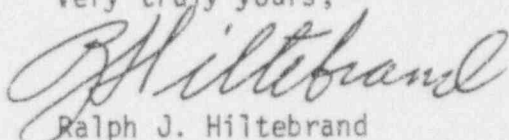
Please revise all referenced licenses noting Ralph J. Hildebrand and Irving L. Ellner as Radiation Protection Officers.

Attachment #6 will provide you with an up-dated list noting branch managers that are responsible for the storage of ionization type smoke detectors, and their location.

Enclosed is a check for \$230 to cover the amendment fee.

If any further information is needed, please contact me.

Very truly yours,



Ralph J. Hildebrand
Radiation Protection Officer

RJH:amf

Attachments

P.S. Have not received the renewal for License #29-08864-04E as of this date.
License expired 7/31/79.

MATERIALS LICENSE

Supplementary Sheet

License Number 29-19100-01E

CORRECTED COPY

Docket or
Reference No. 10-17909-01E

CONDITIONS

10. Each smoke detector device distributed pursuant to this license shall contain not more than the amount of americium 241 listed in the following table:

<u>Device Model</u>	<u>Maximum Quantity per Device</u>
FRU - 1	0.8 microcurie
FRU - 1L	0.8 microcurie
RI - X	0.8 microcurie
FB - 1	0.8 microcurie
FRU - 2	1.6 microcuries
FRU - 2L	1.6 microcuries
R - 2X	1.6 microcuries
R - 2XB	1.6 microcuries
DU - 1A	1.6 microcuries
DU - 2A	1.6 microcuries
FBL - 3	0.8 microcurie
Wells Fargo Model P5B - 10	0.8 microcurie
Wells Fargo Model P5A - 20	0.8 microcurie
Wells Fargo Model P5C - 30	0.8 microcurie
Wells Fargo Model P5F	0.8 microcurie

11. This license does not authorize possession or use of licensed material.
12. Each device distributed under the license shall be manufactured, tested, and labeled in accordance with the statements, representations and procedures contained in applications dated July 7, 1976 and January 25, 1977, and letters dated March 19, 1976, April 27, 1976, August 30, 1976, November 23, 1976, February 8, 1977, February 14, 1977, April 4, 1977, April 6, 1977, June 5, 1978, September 28, 1978, January 17, 1979, March 19, 1979, April 17, 1979, and May 24, 1979.
13. The licensee shall file an annual report as specified in Section 32.29(c), 10 CFR Part 32.

AUG 08 1979

For the U. S. Nuclear Regulatory Commission

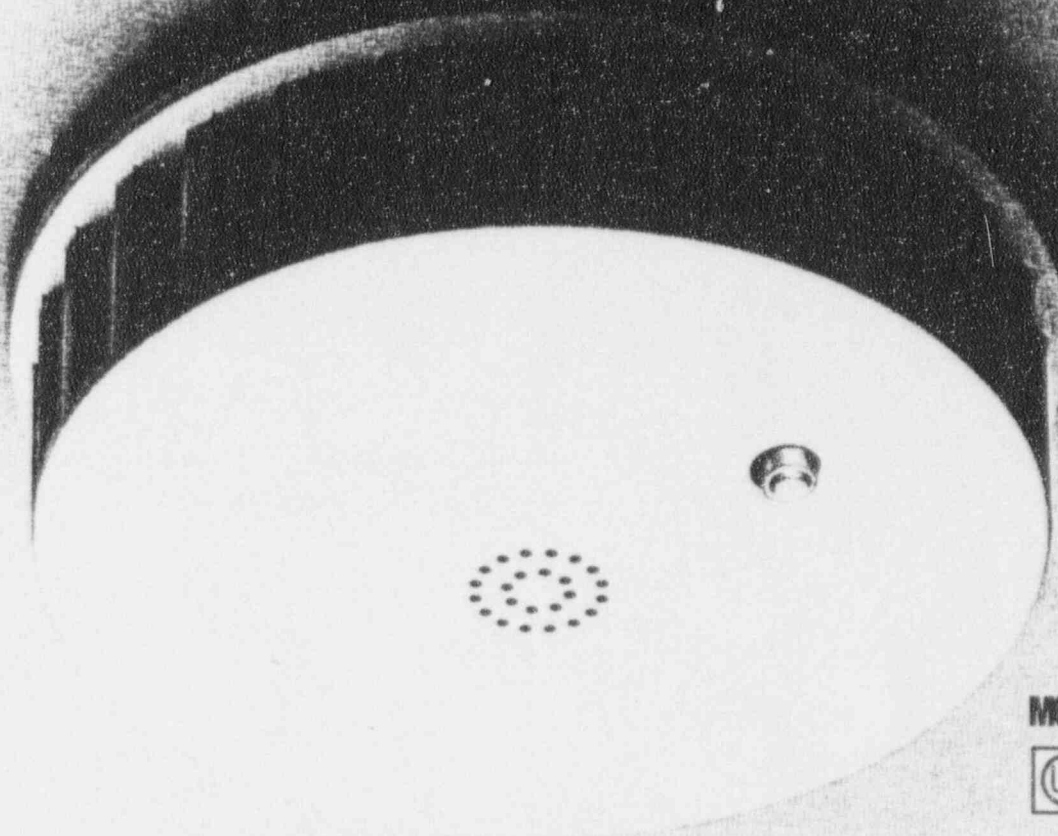
Nathan B. Bassin
Material Licensing Branch

by

Division of Fuel Cycle and
Material Safety
Washington, D. C. 20555

WELLS FARGO[®] EXTRA PROTECTION FIRE & SMOKE DETECTORS

ATTACHMENT #2



MODEL #P5B-10



EXTRA PROTECTION MODEL

Our basic unit. For your budget-minded customers who want a really reliable detector. An exceptionally well-made unit. Our ionization chamber design is extra dependable. It can detect danger of fire at the earliest possible stage. Even before smoke. Easy to put up. Operated by easily replaced, standard alkaline battery.

FEATURES:

- Ultra-stable, broad spectrum sensitivity, ionization detector
- Deluxe designer housing with wide vent openings
- Easy access mounting takes only two screws
- Test button checks both sensing chamber and alarm circuitry
- Reliable integrated circuit design
- Standard 9-volt power source
- Unique, extra-dependable low-battery test circuit
- 30-day low-battery warning signal
- 85 db horn
- From the company that's been protecting government and industry from fire for over 25 years.



Wells Fargo Protection Systems
A Baker Industries Company
8 Ridgedale Ave.
Cedar Knolls, N.J. 07927

Pyrotronics

Early Warning
Fire Detection and Alarm Systems

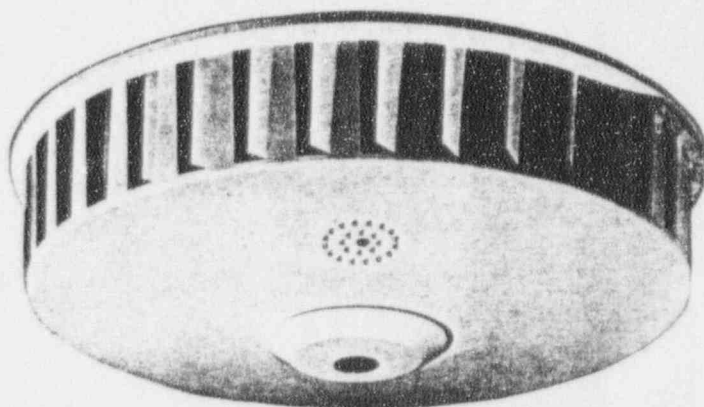
Fire Detector Unit Model DU-3

CATALOG
NUMBER

6112

Engineer and Architect Specifications

ATTACHMENT #3



Features

- Choice of Operating Voltages
- 85 DB Alarm
- Power-On LED and Alarm Indicator
- Alarm and Trouble Relays
- Concealed Test Feature
- UL Listed

Introduction

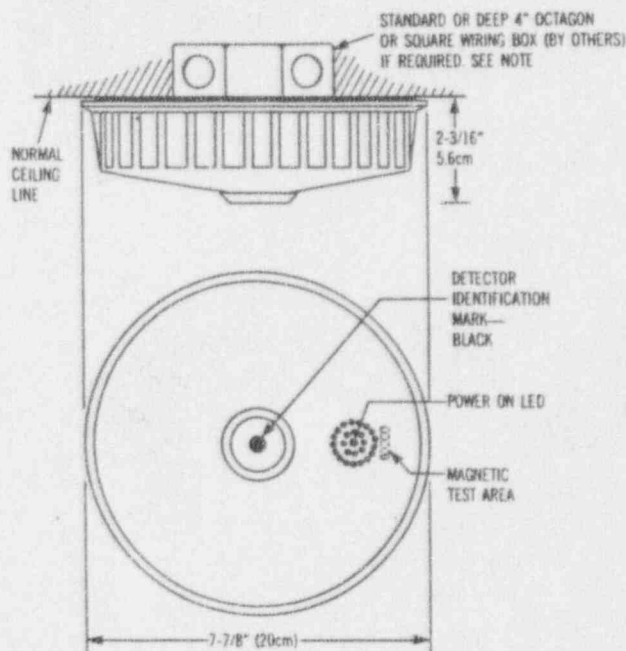
The Pyrotronics Model DU-3 is an ionization type smoke and fire detector. Powered by 120 Vac, 24 Vdc or 18 Vac, it affords significant life safety and property protection advantages, especially for residential, institutional, and light commercial occupancies.

The Model DU-3 is UL listed as a single station detector which can also be used in conjunction with supplementary devices or tied in to an approved fire alarm system.

Description

The Pyrotronics Model DU-3 will respond to a broad spectrum of fire, including the earliest incipient stage before there is visible smoke or flame or noticeable heat at the detector. The ionization chamber contains two charged plates and an alpha source that ionizes the air molecules. When products of combustion enter the chamber, they impede the flow of ions. This reduces the flow of current between the plates and causes a voltage shift that triggers the alarm through a field

Mounting Data



NOTE: BOX DEPTH DETERMINED BY QUANTITY OF CONDUCTORS USED. REFER TO NATIONAL ELECTRICAL CODE.



Pyrotronics

A Division of Baker Industries, Inc.
Cedar Knolls, New Jersey 07927

Pyrotronics
16P
PROTECTIVE SYSTEMS

September 1979
Supersedes Sheet
Dated 11/77

effect transistor (FET). A loud 85 decibel alarm horn is then sounded to warn occupants to leave. The alarm horn will continue to sound as long as the combustion products are present. When the chamber is cleared the unit will automatically reset.

The unit contains a set of SPDT and SPST alarm operated contacts for the control of supplementary external equipment such as an additional audible device, supplementary fans, or for connection to an approved alarm system or releasing device. A SPST trouble operated supervisory relay is also provided.

The DU-3 is equipped with a "Power On" LED located on the face of the unit. When the unit is in an alarm condition the horn will sound and the Power LED will go out until the unit automatically resets.

To insure that the detector is always capable of performing its vital function, a built-in test feature has been provided. When a magnet is applied to the area between the LED and outside rim of the detector case, a hidden reed switch is activated, which will initiate a functional alarm condition. This tests the ionization chamber, the electronic circuitry, and the horn.

Application Data

The DU-3 is essentially a life safety device for use in such occupancies as hotels, motels, dormitories, apartment buildings, etc. Many of these residential type occupancies have manual fire alarm systems already installed in corridors, hallways, and staircases. The DU-3 offers the desirable capability of extending the existing manual alarm system so that in the event of a fire, the manual alarm system will be automatically actuated. This system, in turn, will then respond with its own alarming devices, such as local and remote audibles throughout the building, alerting municipal fire headquarters, etc.

In this sequence, the DU-3 offers superior protection in that significant time is saved in alerting personnel that a fire condition exists. The chances of containment and extin-

guishment are greatly increased and the possibility of extensive, wide area fire damage is minimized.

An alternative application would be to connect the detector to a compatible, listed releasing device control unit to release smoke barrier doors, shut down operating equipment or actuate similar fire protective sequences.

Architect's Specifications

The fire detector unit shall be a Pyrotronics Model DU-3. It shall operate on the ionization principle, activated by the presence of combustion products, and shall be listed by Underwriters Laboratories Inc. The detector shall contain a prewired plug-in connector to afford easy connection to the snaplock detector mounting plate and system wiring.

The detector shall contain SPDT and SPST alarm operated contacts rated 120 Vac or 24 Vdc, 3 amps. and a SPST supervisory relay with contacts rated 120 Vac, 2 amps.

The amplifier switching circuit in the detector shall be entirely solid-state, and shall operate with field selectable input voltages of 120 Vac, 24 Vdc or 18 Vac.

The detector unit shall contain a concealed test feature which utilizes a magnetically operated reed switch to functionally test the ionization chamber, all electronic circuitry and the built-in alarm horn. An audible only test feature shall not be considered equal.

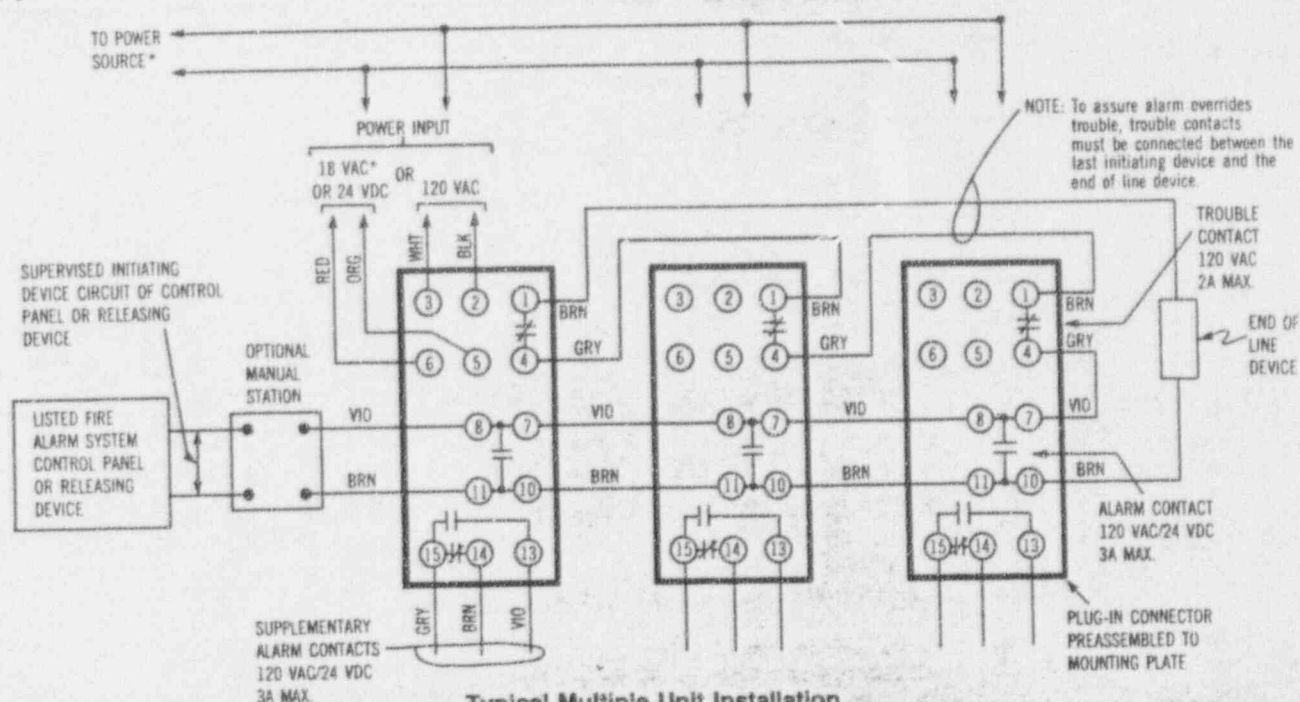
Electrical Information

Power Requirements: 120 Vac — .1 amp. max.
18 Vac — .2 amp. max.
24 Vdc — .1 amp. max.

Ordering Information

Model No.	Description	Shipping Wt.	
		lbs.	Kg.
DU-3	Fire Detector Unit	1.5	.7

Typical Wiring



*CUT JUMPER INDICATED FOR 18 VAC or 24 VDC OPERATION

Pyrotronics

Early Warning
Fire Detection and Alarm Systems

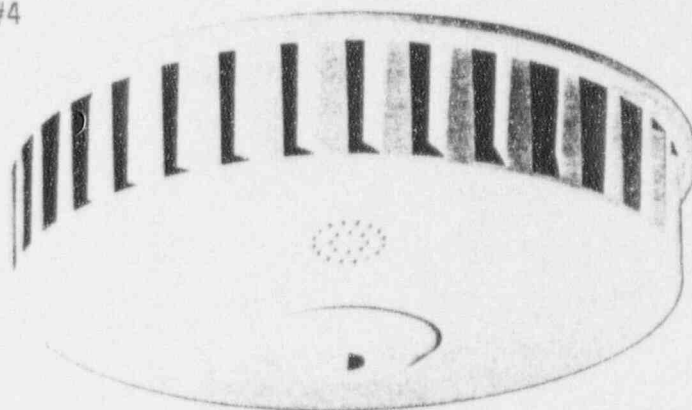
Photoelectronic/Ionization Fire Detector Model DC-1

CATALOG
NUMBER

6115

Engineer and Architect Specifications

ATTACHMENT #4



Features

- LED Alarm Indicator
- Concealed Test Feature
- Plug-in Design
- Superior Sensitivity & Stability
- Two Wire Installation — System Operated
- Wide Range Detection Capability

Introduction

The DC-1 combines two advanced detection methods into one: a new photoelectronic detector and Pyrotronics' proven ionization detector. This combination detector offers the widest range of detection capabilities currently available for any type of anticipated fire condition.

Technical Description

The Model DC-1 incorporates both a photoelectronic chamber and an ionization chamber in one detector. By using two different chamber detection methods, the DC-1 offers superior sensitivity over the entire combustion products spectrum.

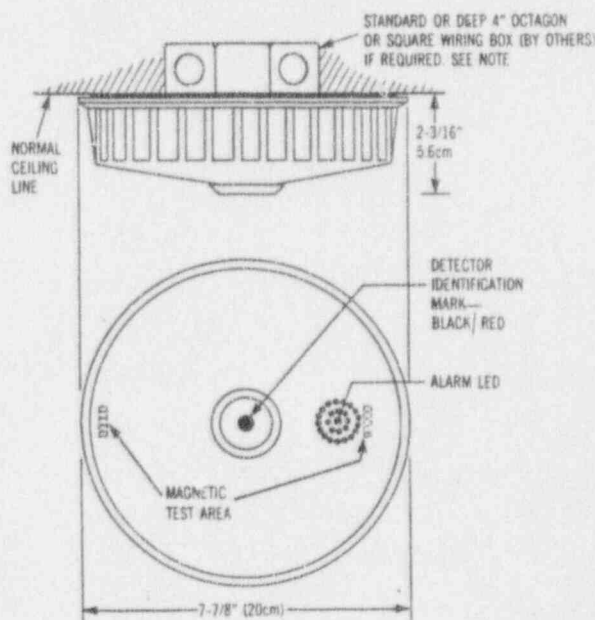
The photoelectronic chamber uses a solid state light emitting diode (LED) and a light sensing photodiode (PD) within a sensing chamber. Under normal conditions, the LED is pulsed once every twelve seconds to provide a flash of light within the sensing chamber. When smoke enters the chamber, the pulse light is scattered or reflected in sufficient quantity to be "seen" by the photodiode.

After the first sighting of smoke by the photodiode, the detector increases the time frequency of light pulses to one pulse every second and a logic circuit is activated to count the light pulses. If the logic circuit verifies the continued existence of smoke within the chamber after two consecutive pulses, the detector's alarm circuit is activated.

The ionization chamber contains two charged plates and a low-level alpha source which ionizes the air molecules. When products of combustion enter the chamber, they impede the flow of ions. This reduces the flow of current between the plates and causes a voltage shift that triggers the alarm circuit through a field effect transistor (FET).

Upon activation of either detection chamber, the DC-1 alarm circuit is activated and "locks-in." When the smoke

Mounting Data



NOTE: BOX DEPTH DETERMINED BY QUANTITY OF CONDUCTORS USED.
REFER TO NATIONAL ELECTRICAL CODE.



Pyrotronics

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Cedar Knolls, New Jersey 07927

Pyrotronics
1601 PROTECTIVE SYSTEMS

April 1980
Supersedes Issue
Dated 10/79

particles or products of combustion have cleared from the detector it can be reset by interrupting the power input from the control panel.

The Model DC-1 consists of a mounting plate with in-line connector and a plug-in detector head with an alarm indicating LED. The pre-wired plug-in connector affords easy connection to the snaplock mounting plate and system wiring. A concealed functional test feature has been provided to check the operational integrity of the detector. When a magnet is applied to the designated test point area (one for each chamber) of the detector case, a hidden reed switch is activated which will initiate a functional alarm condition. This method provides a separate test for each detection chamber and its associated electronic circuitry.

A remote alarm lamp (Model RL-3, 4 or 6) may be utilized when the detector is concealed from view, or a remote relay may be connected to the DC-1. When a relay is used and the control function is critical, no more than one DC-1 should be installed in a particular circuit or zone, and no other initiating devices should be installed in that same circuit or zone. An exception to this rule would be an application where a number of relays were used, each of which was connected to the same critical control function.

The DC-1 operates from a nominal 21 Vdc source, provided by a Pyrotechnics Control Panel. The detector requires a very small standby current (less than 150 microamperes), which permits the use of a two wire detector circuit of #18 AWG, thereby reducing system installation costs.

Application Data

No more than thirty (30) Model DC-1 detectors are to be used on each ZN-30 zone circuit. The DC-1 detector is fully compatible with other Pyrotechnics Detectors and may be intermixed on the same zone circuit. No more than 30 detectors of any type or combination (other than thermals or manual stations) may be used on any one detector circuit. All Series 1 detectors use a common mounting plate which provides detector interchangeability and plug-in type mounting.

Although UL gives no specific spacing recommendation, the test spacing of 30 ft. (900 sq. ft.) may be used, if practical, but only as a guide or starting point in a detector installation layout. Do not mount detectors in areas close to ventilating or air conditioning outlets. Exposed joists or beamed ceilings may also affect safe spacing limitations for detectors. The NFPA Standard No. 72E, "Automatic Fire Detectors" con-

tains information on detector location and spacing considerations, and should be referred to for details.

Architect's Specifications

The fire detector shall be a Pyrotechnics Model DC-1. It shall operate on the photo/ion combination principle.

The detector head shall be a plug-in unit containing both photoelectronic and ionization detection chambers. It shall also include the detector electronics and plug-in connector for its mounting plate. The detector shall operate from a 21 Vdc power source and shall contain an alarm indicator LED to signal actuation of the detector. It shall also be possible to connect a remote lamp or a remote relay to the detector.

The photoelectronic chamber shall incorporate a confirmation circuit which changes the scanning rate of the photo-optics.

The ionization chamber shall contain an alpha source and shall not exceed .8 microcuries. The unit shall contain no moving parts and the amplifier switching circuit in the detector shall be entirely solid-state.

A concealed calibrated test feature shall be provided to check the operational integrity of each detection chamber. The test feature shall provide a concealed, tamperproof method for testing the detector. For test purposes the generation of actual smoke or the removal of the detector from its mounting plate shall not be required.

The detector, or group of detectors, shall require a two-wire circuit of #18 AWG thermoplastic fixture wire enclosed in conduit or #18 AWG limited energy shielded cable without conduit, if permitted by local building codes.

Electrical Information

Current Requirement: Normal—150 μ A Max.

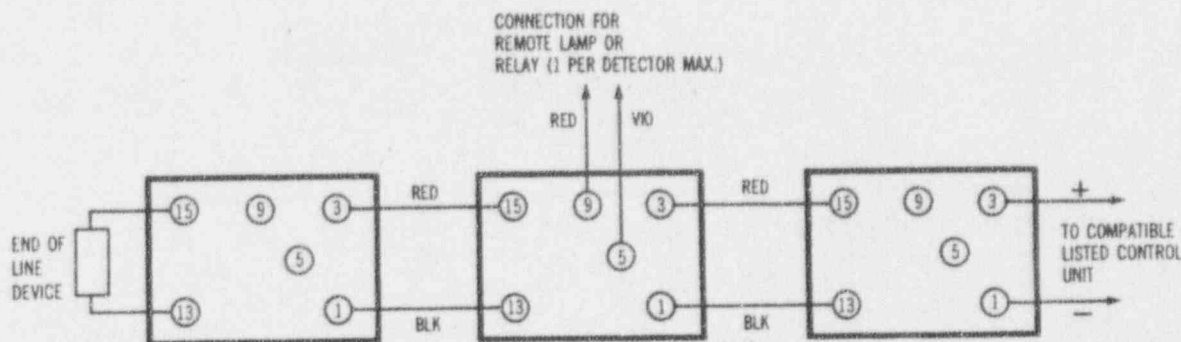
Alarm—100 mA Max.

Voltage Range: 19-23 Vdc

Ordering Information

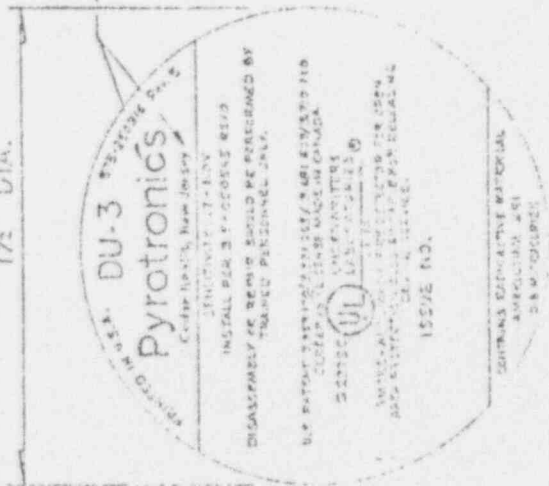
Model	Description	Shipping Weight	
		Lbs.	Kg.
DC-1	Combination Fire Detector, Surface Mounting (includes detector and mounting plate)	1.5	.7

Typical Wiring



575-250316

1 1/2" DIA.



PER LOGO SUPPLIED

NOTES

1. MATERIAL: WHITE NON-GLOSS, 11000 GRADE, 200 PPM, WITH PRESSURE SENSITIVE CYCLING & SHIPBOARD LINE.
2. LETTERS: UNLESS OTHERWISE SPECIFIED, TO BE NORMALLY REGULAR, SET AND POSITIONED AS SHOWN. MIN. LETTER HEIGHT 3/64" HIGH.
3. LINES: APPROX. .012 WIDE.
4. TO BE SUPPLIED IN ROLL FORM, CUT THROUGH TO LINES.

ATTACHMENT #5A

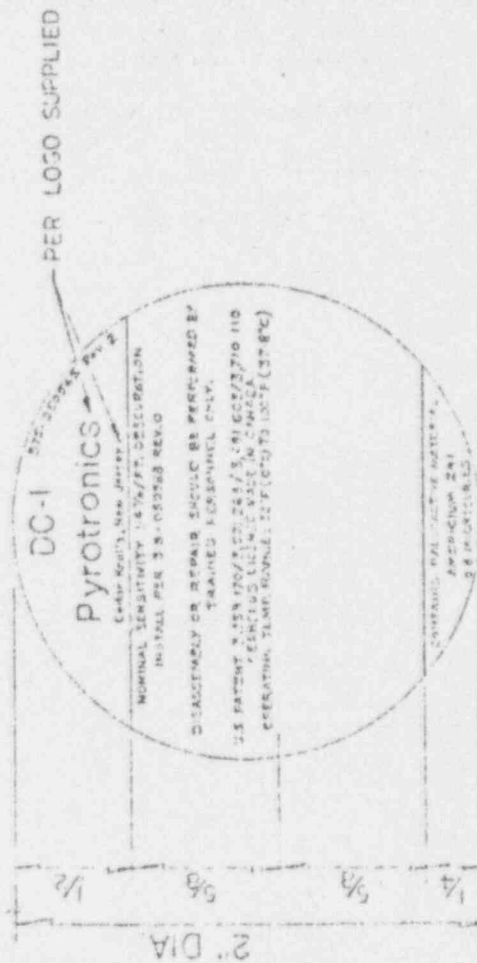
REVISIONS

REV NO	DESCRIPTION	BY DATE	APP'D DATE
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2	REV'D	9-8-79	10-2
3	REV'D	9-8-79	10-2
4	REV'D, UPDATED PER HRC	10-2-79	10-2
5	REV'D	10-2-79	10-2
-	REDEAWN	10-2-79	10-2

<p>Pyrotechronics Canada Limited 55 Island Road, Montreal, Quebec H3R 1A3</p>	
<p>NAMEPLATE / ULI 167 DU-3</p>	
<p>B 575-250316</p>	<p>SCALE: NONE SH 1 OF 1</p>

ATTACHMENT #5B

575-250565



REV	DESCRIPTION	DATE	BY
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95	REV'D E.D. BOGGS	1-1-74	1-1-74
96	REV'D E.D. BOGGS	1-1-74	1-1-74
97	REV'D E.D. BOGGS	1-1-74	1-1-74
98	REV'D E.D. BOGGS	1-1-74	1-1-74
99	REV'D E.D. BOGGS	1-1-74	1-1-74
100	REV'D E.D. BOGGS	1-1-74	1-1-74

NOTES

1. MATERIAL: WHITE NON-GLOSS, LITHO GRADE, 8-21 PAPER, WITH PRESSURE SENSITIVE BACKING & STRIPABLE LAYER.
2. LETTERS: UNLESS OTHERWISE SPECIFIED, TO BE 3/64" HIGH, 1/8" WIDE, AND POSITIONED AS SHOWN. MIN. LETTER HEIGHT 3/64" HIGH.
3. LINES: APPROX. .012 WIDE.
4. TO BE SUPPLIED IN FOLD FORM, CUT THROUGH TO LAYER.

Pyrotechnics Canada Limited 55 Isbana Road, Vaughan, Ontario L3R 1S9	
NAMEPLATE / ULI 268 DC-1	
(MFD IN CANADA FOR U.S.)	
B	575-250565
DATE	1-1-74
CHKD	1-1-74
APPD	1-1-74
QTY	1

ATTACHMENT #6

BRANCH LOCATIONS FOR STORAGE OF DETECTORS

G. TOTH
Chicago Branch
490 Wrightwood Drive
Elmhurst, Ill. 60126

L. PACKHEM
Boston Branch
22 Chestnut Place
Needham, Massachusetts 02192

N. KRANTZ
Detroit Branch
12842 Farmington Road
Livonia, Michigan 48150

N. DI REZZI
New Jersey Branch
230 Route 22
Green Brook, New Jersey 08812

R. VALENZ
Miami Branch
1515 N.W. 167th Street
Miami, Florida 33169

D. STUART
Atlanta Branch
3525 North Causeway Blvd.
Suite 317
Metairie, Louisiana 70002

B. HAHNLE
Dallas Branch
3201 Highway 67
Suite D
Mesquite, Texas 75150

R. BURRIER
Washington Branch (Amplitron)
4921 Wyaconda Road
Rockville, Maryland 20852

M. LONCTOT
Van Nuys Branch
13631 Saticoy Street
Van Nuys, California 91402

N. JENSEN
Fresno Branch
P.O. Box 4321
Fresno, California 93744

J. WRIGHT
Denver Branch
5701 North Logan Street
Denver, Colorado 80216

C. BEARD
Kansas City Branch
1504A North Topping
Kansas City, Missouri 64120



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Date 5/11/81

TO: Material Certification & Procedures Branch, 426-SS

SUBJECT: MLB REQUEST FOR MCPB ASSISTANCE

RETURN: MLB, 396-SS

Control No.: 07283/07284 (attached)

License No.: 29-08864-03/04E (attached)

Letter No.: _____ (attached)

Assistance requested: NOT applicable for safety review.
These sources are stated to be the
same as custom review presently licensed
devices 642

_____ New source review

X _____ New device review Smoke detector

_____ Other (see remarks)

REMARKS:

X _____ Catalog has been checked. No information is available on the source/device.

X _____ We are not aware of any specific license which authorizes possession and use of this device.

_____ Manufacturer is located in Agreement State. MLB has verified that no device review is completed or pending, and that a custom review is required.

X _____ Manufacturer is located in non-Agreement State.

_____ Source/device will be imported.

X _____ If information provided by applicant is inadequate, assistance is required in the form of a letter/standard paragraphs and guides to request additional information from applicant.

X _____ This case is being recorded in the computer as being assigned to 1-5. When it is returned to MLB, it will be reassigned to a MLB reviewer.

_____ Other

PAUL GUIN
Requestor