

BLOCK 1149 LOT 1 QUALIFICATION CODE _____ ADDRESS (SITE) 179 VAN ZILE RD PERMIT NO. 06-0264



CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII

I. IDENTIFICATION

1. Proposed Work Site at: 179 VAN ZILE ROAD
2. Name of Owner in Fee: BONEFISH GRILL Tel. (813) 282-1225
Address 2202 N. WESTSHORE BLVD TAMPA FL 33607
street municipality zip code
3. Ownership in fee: Public _____ Private _____
4. Principal Contractor: DIMENSION CONST. MGMT Tel. (609) 978-9979
Address 440 South Main Street
License No. OR, if new home, Builder Reg. No. _____ Exp. Date _____
Federal Employee No. 22 379 0750 FAX: (609) 978-9949
5. Architect or Engineer Jon W. Sammes Tel. (703) 591-0747
Address 3921 Old Lechway Ste 2B Fairfax VA Contact _____
6. Responsible Person in Charge once Work has Begun BRIANGILL
Tel. (609) 978-9979 FAX: (609) 978-9949

interior demo

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$		
2. Electrical			
3. Plumbing			
4. Fire Protection			
5. Elevator Devices			
6. Subtotal	\$		
7. Less 20% for State Plan Review			
8. Subtotal	\$		
9. State Permit Fee Surcharge			
10. Subtotal	\$		
11. Cert. of Occupancy			
12. Other			
13. TOTAL	\$		

VI. BUILDING/SITE CHARACTERISTICS

1. Number of Stories _____
2. Height of Structure _____ ft.
3. Area — Largest Floor _____ sq. ft.
4. New Building Area _____ sq. ft.
5. Volume of New Structure _____ cu. ft.
6. Construction Classification _____
7. Total Land Area Disturbed _____ sq. ft.
8. Flood Hazard Zone _____
9. Base Flood Elevation _____ ft.
10. Wetlands yes _____
no _____
11. Max. Live Load _____
12. Max. Occupancy Load _____

(office use only)

OPTIONAL (for office use only)

II. PROPOSED WORK	Est. Cost	Plans Rec'd by	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Rejection	Re-viewer
1. ☐ Minor Work									
2. ☐ New Building									
3. ☐ Addition									
4. ☐ a. Repair									
☐ b. Alteration									
☐ c. Renovation									
☐ d. Reconstruction									
5. ☐ Fire Protection									
6. ☐ Plumbing									
7. ☐ Electrical									
8. ☐ Elevator Devices									
9. ☐ Asbestos Abat. Subch. 8									
10. ☐ Lead Hazard Abatement									
11. ☒ Demolition	<u>15,000</u>								
TOTAL COSTS	<u>15,000</u>								

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL

1. State Specific Use: _____
2. Use Group: _____
3. Change in Use Group, Indicate Former: _____
4. No. of dwelling units:
Before Construction _____
After Construction _____
Net Gain or Loss _____

B. NON-RESIDENTIAL

1. State Specific Use: _____
2. Use Group: _____
3. Change in Use Group, Indicate Former: _____

III. DO YOU WANT: (optional)

1. ☐ Partial Releases
2. ☐ Prototype Processing

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/
Dumbwaiters/Moving Walks
2. ☐ High Pressure Boilers
3. ☐ Pressure Vessels
4. ☐ Refrigeration Systems
5. ☐ Cross-Connections/Backflow Preventers
6. ☐ Hazardous Uses/Places of Assembly
7. ☐ Sprinklers
8. ☐ Smoke Control Systems in Open Wells
9. ☐ Underground Storage Tanks
10. ☐ Swimming Pools, Spas and Hot Tubs



BUILDING SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 1149

Lot 1

Qualification Code

Work Site Location 179 VAN ZILE ROAD

Owner In Fee BRICK NJ

BONEFISH & RILL

Address 2202 N. WEST SHORE RD.

Tel. (913) 382-1225 33607

Contractor DIMENSION CONSTRUCTION HGT

Address 440 S. MAIN STREET

Tel. (609) 978-9979 08092

FAX (609) 978-9949

Contractor License No. or Builder Registration No.

Federal Emp. No. 22 379 0750

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Failure	Dates (Month/Day)	Initial
			Type:			
☐ No Plans Required			Footings			
☐ All			Footings Bonding			
☐ Footing			Foundation			
☐ Foundation			Slab			
☐ Frame			Truss Sys./Bracing			
☐ Other			Barrier-Free			
Joint Plan Review Required:			Insulation			
☐ Elec. ☐ Plumb. ☐ Fire ☐ Elevator			Finishes -Base Layer			
SUBCODE APPROVAL			Finishes -Final			
☐ CO ☐ CCO ☐ CA			Energy			
Date:			Mechanical			
			TCO			
Approved by:			Other			
			Final			
			Barrier-Free			

B. BUILDING CHARACTERISTICS

Use Group	Present	Proposed
Constr. Class	<u>ONE</u>	
No. of Stories	<u>21-8"</u>	
Height of Structure	<u>6000</u>	
Area — Largest Floor	<u>6000</u>	
New Bldg. Area/All Floors	<u>120,000</u>	
Volume of New Structure	<u>120,000</u>	
Total Land Area Disturbed		

Est. Cost of Bldg. Work:

1. New Bldg.	\$
2. Rehabilitation	\$
3. Total (1+2)	\$ <u>15,000</u>

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Signature [Signature]

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

Remove slab on interior to allow for underground plumbing and electric. Remove storefront, masonry roof.

TYPE OF WORK:

☐ New Building	
☐ Addition	
☐ Rehabilitation	
☐ Roofing	
☐ Siding	
☐ Fence	
☐ Sign	
☐ Pool	
☐ Asbestos Abatement Subchapter 8	
☐ Lead Haz. Abatement NJAC 5:17	
☐ Other	
☐ Demolition	

FEE (Office Use Only)

Administrative Surcharge \$	
Minimum Fee \$	
State Permit Surcharge Fee \$	
TOTAL FEE \$	<u>40</u>

Date Received

Control #

Date Issued

Permit #

1/31/06
06-0224



CONSTRUCTION PERMIT

Date Issued 01/31/2006
Control # C-06-0508
Permit # 06-0264

IDENTIFICATION Block: 1149 Lot: 1 Qualifier _____
Work Site Location: 135-167 VAN ZILE RD. Brick Township, NJ Contractor Dimension Construction MGMT.
Address 440 S. Main Street Cedar Run NJ 08092
Owner in Fee BRICKTOWN PLAZA ASSOCIATES
Address 600 OLD COUNTRY RD #425 GARDEN CITY NJ Telephone: (609) 978-9979
11530 Lic. No. or Bldrs. Reg. No. _____
Telephone: _____ Federal Employee No. 223790750

Is hereby granted permission to perform the following work:

- ☒ BUILDING ☐ PLUMBING ☐ LEAD HAZARD ABATEMENT
☐ ELECTRICAL ☐ FIRE PROTECTION ☐ DEMOLITION
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☐ OTHER

DESCRIPTION OF WORK:

INTERIOR DEMOLITION

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$15,000

Construction Official _____ Date 01/31/2006

U.C.C. F170
equiv (rev 8/03)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$40
Electrical	\$0
Plumbing	\$0
Fire Protection	\$0
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$0
CO Fee	
Other	\$0
Total	\$40
Check No.	1001
Cash	\$0
Credit	\$0
Collected By	Ann Marie Hanlon

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

- ☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

- ☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

- ☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

- ☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(e)1.vii:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____ Date _____

II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:32-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☐ Check if contractor.

Agent Name BRIAN GILL

Address 440 South Main Street

CEDAR RUN, NJ 08092

Telephone (609) 978-9979

Signature Brian P Gill

III. ☐ LEAD HAZARD ABATEMENT. Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.

Applicable to Ordinance 720-92

This form must be handed in with permit application or a permit will not be issued

TOWNSHIP OF BRICK

Debris Form

Work Site Address: 179 ~~Van Zile~~ Van Zile ROAD, BRICK, NJ

Block: 1149 Lot: 1

Contractor: DIMENSION CONSTRUCTION MANAGEMENT

Contractor's Address: 440 SOUTH MAIN STREET, CEDAR RUN, NJ 08092

Type of Construction (minor, new home): Tenant Fit-Up

Type of Debris (shingles, siding, wood, etc.): General Debris: Sheetrock, Concrete, Metal Studs

Party responsible for removal: NATIONAL ENVIRONMENTAL WASTE SYSTEMS

Dumpster size: Approximately (10) ^{30 YD} CONTAINERS P.O. BOX 849
EAST BRUNSWICK, NJ 08816

Destination of debris: OCEAN COUNTY LANDFILL

Any recyclable material must be delivered to an approved recycling center and receipts provided to the Building Department along with tipping receipts for non-recyclable.

Generator's Certification: Under penalty of criminal and civil prosecution for the making or submission of false statements, representations or omissions, I declare, on behalf of the generator that the contents of this document are fully and accurately described above and have been disposed of in accordance with all applicable State and Federal laws and regulations, and that I have been authorized in writing, to make such declaration by the person in charge of the generator's operation.

Brian P. Gill
Signature

31 JAN 06
Date

BRIAN P. GILL
Print Name



Model 5860 Remote Annunciator



**Bring the power to control
IntelliKnight® to every area within
your facility.**

Now you can operate and program your IntelliKnight system from up to 8 locations throughout your facility. The Model 5860 Remote Annunciator provides the same advanced, easy-to-use interface found on the IntelliKnight panel's built-in annunciator. The 80-character display and ergonomically designed keypad allow for simple and error-free system operation. All operations—including reset, silence, detector status checking, fire drill, and programming—are identical.

Access to the system is through a firefighter's key or an access code. For security, a special installation code is needed for programming functions.

The 5860 connects to the IntelliKnight panel via the RS-485 system bus. Wire runs can be up to 6000 feet from the panel.

Model 5860 Remote Annunciator

The 5860 is designed to look and operate exactly the same as the IntelliKnight built-in annunciator. Features include an 80-character backlit LCD providing easy-to-understand system messages. The annunciator is ergonomically designed with over-sized buttons for the most frequently used features, like Reset and Silence.

In addition to status messages displayed on the LCD, there are five LEDs for alarm, supervisory, trouble, silence, and AC power status.

The annunciator is available in gray to match virtually any decor and red for applications where the annunciator must stand out. The annunciator enclosure can be surface or flush mounted. A trim ring kit is available for surface mounting.

Operation

When the system is normal and receiving AC power, the power LED is lit and all other LEDs are off. Other LEDs turn on as the conditions occur.

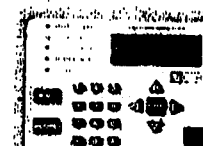
Users identify themselves to the

control panel by entering a code on the annunciator or by turning the firefighter's key. When a user presses a button, the annunciator piezo beeps and the LCD prompts the user to enter a code or other relevant information.

Multiple users can work at different annunciators simultaneously without affecting each other.

Features

- 80-character display
- Tactile/audible feedback
- Accepts user codes or firefighter's key
- RS-485 interface to panel
- Can be flush- or surface-mounted. Trim ring available for surface-mounting.
- Operation and appearance identical to on-board annunciator
- Supports simultaneous use by multiple users
- UL listed, complies with NFPA 72
- CSFM Approved
- MEA Listed
- FM Approved



5860 Remote Annunciator

Specifications

Operating Voltage:	24 VDC
Standby Current:	20 mA
Alarm Current:	25 mA
Max. per system:	8
Ambient Temperature:	32°F to 120°F (0°C to 49°C)
Mounting:	Surface or flush
Wiring Distance from IntelliKnight panel:	Up to 6,000 feet
Dimensions:	Height: 7-3/8" Width: 9-1/8" Depth: 1-1/2"
Colors:	Lt. gray (5860) Red (5860R)



Model 5860 Remote Annunciator



Engineering Specifications

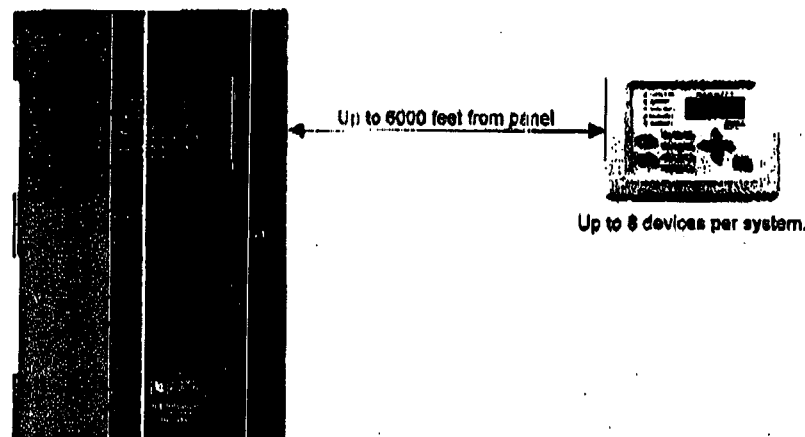
The main control must have a built-in annunciator and must support up to eight remote annunciators. Remote annunciators shall have the same control and display layout so as to match the appearance of the built-in annunciator. Remote annunciators shall be available in two colors, red or light gray.

Remote annunciators shall have identical functionality and operation as the built-in annunciator. All annunciators must have an 80-character LCD display and must feature five LEDs for: General Alarm, Supervisory, System Trouble, System Silence, and System Power.

All controls and programming keys are silicone mechanical type with tactile and audible feedback. Keys have a travel of .040 inches. No membrane style buttons will be permissible.

The annunciator must be able to silence and reset alarms through the use of a code entered on the annunciator keypad or by using a firefighter's key. The annunciator must have two levels of user codes that will limit the operating system programming to authorized individuals. The control panel must allow all annunciators to accommodate multiple user input simultaneously.

5860 Block Diagram



**SILENT
KNIGHT**

7550 Meridian Circle, Maple Grove, MN 55369-4927

800-446-6444 or In Minnesota 763-493-8435

FAX: 763-493-8475

World Wide Web: <http://www.silentknight.com>

MADE IN AMERICA

FORM# 360224 Rev. B, 02/04

Copyright © 2004 Silent Knight

SLC Sensor Devices**SD505-APS**

Addressable photoelectric smoke detector.

SD505-AHS

Addressable heat sensor.

SD505-6AB

Six inch base designed for use with detector head models SD505-APS and SD505-AHS.

SD505-6IE

Short circuit isolator base for SD505-AHS, and SD505-APS detectors.

SD505-ADM

Duct Housing. Detects smoke in HVAC ducts. Use with SD505-APS.

SD505-ADHR/DTS

Addressable Duct smoke detector with built-in relay module detects products of combustion present in air moving through an HVAC system. Provides form C alarm contact. The SD505-ADHR is compatible with the SD505-DTS, which provides remote annunciation and testing capabilities for the SD505-ADHR. Use with SD505-APS.

SD505-PS/PSDA

Addressable Pull Station with visible LED.

Intelligent SLC Modules**SD500-AIM**

Dry Contact Input Module. Designed to used with normally open dry contacts. Mounts in a 4 inch square electrical box. It features an indicator LED to show alarm status and a coverplate.

SD500-MIM

Mini Dry Contact Input Module. A miniature version of the addressable input module which is designed to be used with pull stations and other normally open dry contact inputs where a smaller size is desired.

SD500-ARM

Addressable Relay Module. Features 2 Form C output relays, designed to mount on a 4 inch square electrical box. Provides indicator LED to show output status and comes with a coverplate.

SD500-LED

An LED driver capable of driving 80 LEDs through the SLC loop. Up to 40 SD500-LEDs can be used per system.

SD500-LIM

Addressable short circuit isolator module for SLC devices.

S-BUS Accessories

The following items listed are devices that connected to the IntelliKnight's RS-485 Bus.

5860 Remote Fire Annunciator

The 5860 features the same 80 character backlit LCD display keypad and firefighter's keyswitch as the 5820. The system can be fully programmed and operated from any remote annunciator.

5880 LED/I/O Module

Features 40 LED outputs, 8 normally open dry contact inputs and one piezo output.

5486 Intelligent Power Module

The 5486 is a 6 amp notification power expander that provides four additional power-limited notification appliance circuit.

5865-3 and 5865-4**Remote LED Annunciator**

Features 30 Programmable LEDs (15 red and 15 yellow) outputs and piezo sounder. The 5865-4 adds a silence and reset switch to the package.

5883 Relay Board

Features 10 General purpose Form C relays. Used with 5880 module.

5824 Serial/Parallel Gateway Module

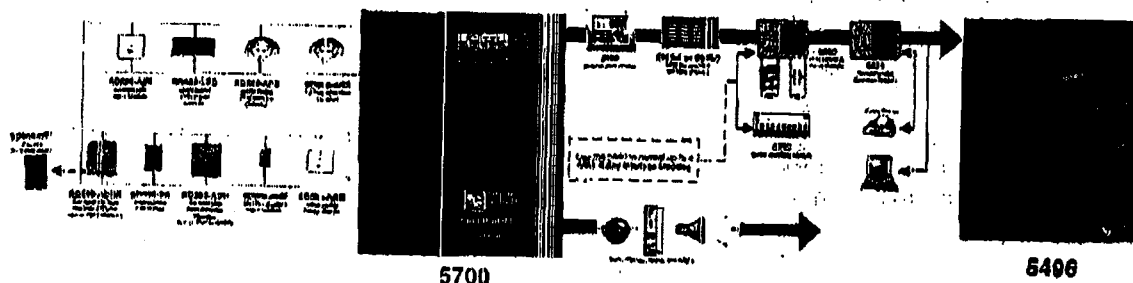
Has one parallel and one RS-232 serial port for connecting any standard IBM-compatible printer to the IntelliKnight system. Interfaces with building control system.

SKSS Silent Knight Software Suite**5660 Up Download Software**

User-friendly, Windows™ software for remote programming of the IntelliKnight panel using a PC.

5670 Facility Management Software

Powerful end-user software allows viewing of detector status and event history via modem or direct connection.



SILENT KNIGHT

A Honeywell Company

7580 Meridian Circle, Maple Grove, MN 55369-4927

800-446-6444 or in Minnesota 763-493-6435

FAX: 763-493-6175

World Wide Web: <http://www.silentknight.com>

MADE IN AMERICA

FORM# 350392, Rev. 10/03

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COLEMANCABLE

Toll-Free (800) 323-8365

Wiring The World

Fax: (647) 689-1182

PART NUMBER: 98820
DESCRIPTION: 18/2 SOLID FPLR/CMG FT4 CABLE
CONSTRUCTION: This cable consists of two bare copper insulated conductors and an overall jacket.
APPROVALS: UL Standard 1424 and 444, NEC Articles 700 and 800.
APPLICATION: Power Limited Fire Alarm Cable and Communications Cable For Riser Applications

Construction Parameters:

Cable Cross-Section

Conductor	18 AWG Bare Copper
Stranding	Solid
Insulation Material	Foam Polypropylene
Insulation Thickness	0.008" Nom.
Insulated Conductor Diameter	0.052" Nom.
Number of Conductors	2
Lay Length	3.00" Nom.
Jacket Material	PVC
Jacket Thickness	0.014" Nom.
Overall Cable Diameter	0.132" Nom.
Approximate Cable Weight	16.0 Lbs./1M' Nom.
Flame Rating	UL 1681 Riser Flame Test



Electrical Properties:

Temperature Rating	-20°C to 60°C
Operating Voltage	300 V RMS Max.
Capacitance Between Conductors @ 1 KHz	28 pF/ft Nom.
Capacitance Between Conductors to Shield @ 1 KHz	-----
DC Resistance per Conductor @ 20°C	6.32 Ohms/1M' Nom.

Insulation Colors	Black / Red
Jacket Color	Red (Other colors available for minimum order)

Legend (Surface Ink Print) E100311 * 18 AWG 2/C (UL) TYPE FPLR SUN RES - C(UL) TYPE CMG FT4

On special orders, the customer will accept all factory lengths and +/- 10 percent of total order requested.
 The jacket is equivalently footmarked.

The information presented here is, to the best of our knowledge, is true and accurate. However, since conditions of use are beyond our control, all recommendations or suggestions are presented without guarantee or responsibility on our part. We disclaim all liability in connection with the use of information contained herein or otherwise.

This specification is proprietary intellectual property of Coleman Cable. Any information contained herein shall not be disclosed to any party without written consent of Coleman Cable.

Customer Name _____ Date Shipped _____

Customer Approval _____

Specification Issue Date: February 25, 2000

1-800-323-8365 (Phone)
 1-647-689-1182 (Fax)

98820

Designed By: PEP
 © 2000 Coleman Cable Systems, Inc.



COLEMANCABLE

Toll-Free (800) 323-8355

Wiring The World

Fax: (847) 689-1192

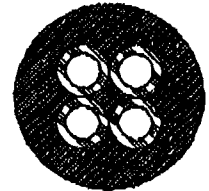
PRODUCT DATA SHEET

PART NUMBER: 98844
DESCRIPTION: 18/4 SOLID FPLR/CMG FT4 CABLE
CONSTRUCTION: This cable consists of four bare copper insulated conductors and an overall jacket.
APPROVALS: UL Standard 1424 and 444, NEC Articles 760 and 800.
APPLICATION: Power Limited Fire Alarm Cable and Communications Cable For Riser Applications

Construction Parameters:

Conductor	18 AWG Bare Copper
Stranding	Solid
Insulation Material	Flame Polypropylene
Insulation Thickness	0.001" Nom.
Insulated Conductor Diameter	0.052" Nom.
Number of Conductors	4
Lay Length	Parallel
Jacket Material	PVC
Jacket Thickness	0.011" Nom.
Overall Cable Diameter	0.151" Nom.
Approximate Cable Weight	29.8 lbs/1M' Nom.
Flame Rating	UL 1086 Riser Flame Test

Cable Cross-Section



Electrical Properties:

Temperature Rating	-20°C to 80°C
Operating Voltage	300 V RMS Max.
Capacitance Between Conductors @ 1 KHz	25 pF/ft Nom.
Capacitance Between Conductors to Shield @ 1 KHz	---
DC Resistance per Conductor @ 20°C	6.33 Ohms/1M' Nom.

Insulation Colors	Black, Red, Green, Yellow
Jacket Color	Red (Other colors available for minimum order)

Legend (Surface Ink Print)	E103015 * 18 AWG 4/C (UL) TYPE FPLR SUN RES - C(UL) TYPE CMG FT4
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On special orders, the customer will accept all factory lengths and +/- 10 percent of total order requested.

The jacket is sequentially footmarked.

The information presented here is, to the best of our knowledge, is true and accurate. However, since conditions of use are beyond our control, all recommendations or suggestions are presented without guarantee or responsibility on our part. We disclaim all liability in connection with the use of information contained herein or otherwise.

This specification is proprietary intellectual property of Coleman Cable. Any information contained herein shall not be disclosed to any party without written consent of Coleman Cable.

Customer Name _____ Date Signed _____

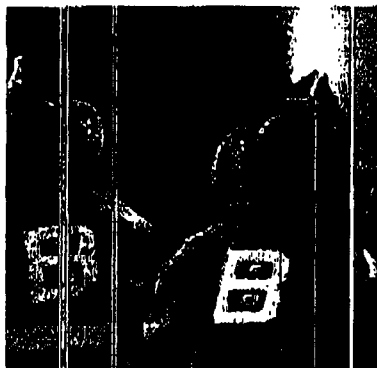
Customer Approval _____

Specification Issue Date: March 11, 1999

1-800-323-8355 (Phone)
1-847-689-1192 (Fax)

98844

Designed By: PEP
© 2000 Coleman Cable Systems, Inc.



IntelliKnight® Model 5700 Single Loop Addressable Fire Alarm Control System



The affordable addressable solution.

IntelliKnight Model 5700 is a 50 point class leading single loop addressable fire alarm control/communicator system that provides you with the revolutionary value and performance of addressable sensing technology combined with exclusive, built-in digital communication, distributed intelligent power, that includes an easy to use interface. Powerful features such as drift compensation and maintenance alert are delivered in this powerful FACP from Silent Knight.

For more information about the IntelliKnight system, or to locate your nearest source, please call 1-800-446-6444, or in Minnesota, call 763-493-1435.

Description

The IntelliKnight 5700 performs drift compensation and calibration checks on each of the sensors in the system. The basic IntelliKnight 5700 system can be enhanced by adding modules such as the Remote Annunciator, the Serial/Parallel Interface (for printing system reports), and an Intelligent Power Module. The Model 5700 also features a powerful built-in dual line fire communicator that allows for reporting of all system activity to a remote monitoring location.

Features

- Up to 50 addressable points.
- Up to 125 zones and 125 output groups.
- Uses standard wire—no shielded or twisted pair required.
- Built-in digital communicator.
- Central station reporting by Point or by Zone.
- Supports Class B (Style 4) and Class A (Style 6 or 7) configuration for SLC.
- Distributed, intelligent power.
- Drift compensation.
- 13 pre-programmed output cadences, (including ANSI-3.41), and 4 programmable outputs.
- Notification circuits can be configured as 1 Class A (Style Z) or 2 Class B (Style Y), or auxiliary power for resettable, constant, or door holder power.

- Built-in synchronization for appliances from Gentex®, Faraday, System Sensor®, and Wheelock®.
- Built-in annunciator with 80-character LCD display.
- RS-485 bus provides communication to system accessories.
- Up or Down load programming, event history, or detector status via remote or direct connection.
- Built-in RS-232 Interface for programming via PC.
- Built-in Form C trouble relay rated at 2.5 amps at 24 VDC.
- Two built-in Form C programmable relays rated at 2.5 amps at 24 VDC.

Approvals:

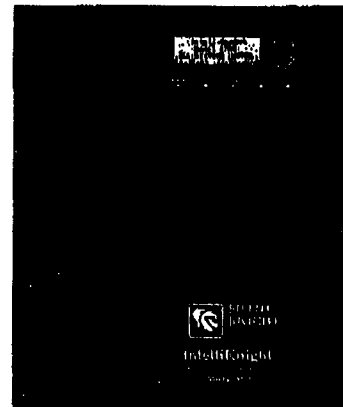
UL Listed / NFPA 72 (File No. S2766)

-Central Station
-DACT
-Local Protective Signalling System
-Water Deluge
-Releasing Service

CSFM Listed

Specifications

Primary AC: 120 VAC, 60 Hz, 1.5A
Total Accessory Load: 2.5A at 24 VDC
2.5 amps at 24 VDC of power-limited notification power
Standby Current: 160 mA
Alarm Current: 330 mA
Notification/Aux power circuits:
2.5 amps of power-limited power per circuit at 24 VDC.



Model 5700

Mechanical Specifications:

Dimensions:

12-3/4"W x 15-1/8"H x 3-3/8"D
(32.39 x 38.42 x 8.57 cm)

Weight: 11.5 lbs. (5.2 kg)

Color: Red

Telephone Requirements:

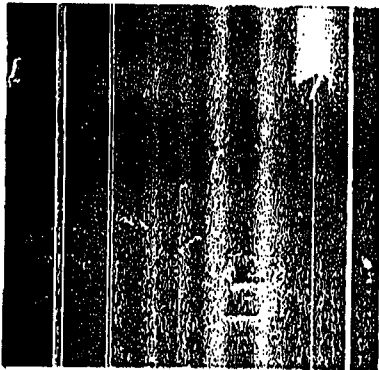
FCC Part 15 and Part 68 approved

Type of Jack: RJ31X (two required)



**SILENT
KNIGHT**

A Honeywell Company



SD500-PS and SD500-PSDA Addressable Pull-Station



IntelliKnight's addressable pull stations combine fast response with pin-point location ID.

The SD500-PS and SD500-PSDA are a single action or dual action addressable manual fire alarm pull station for use with Silent Knight's IntelliKnight fire control panel. Extremely easy to operate, the SD500-PS/PSDA provides a fast and practical means of manually initiating a fire alarm signal. The IntelliKnight panel recognizes each manual pull station by its specific address saving precious seconds in determining the location of an alarm. The SD500-PS/PSDA mounts to a single gang box and features a rugged metal construction that lasts and lasts. Combine all this with the features you've come to expect from Silent Knight - easy installation and stable operation - and it adds up to a flexible solution for all your fire protection needs.

Model SD500-PS & SD500-PSDA Addressable Pull Station

The SD500-PS is a single action addressable fire pull station, and the SD500-PSDA is a dual action addressable fire pull station. The SD500-PS/PSDA feature rugged metal construction. A terminal strip on back of the pull station allows interconnection of the pull station to the SILC of an IntelliKnight control panel. The SD500-PS/PSDA is designed for indoor use in non-explosive environments. The normally open initiating point contacts are gold-plated to avoid risk of corrosion. The SD500-PS/PSDA has been tested by UL for compliance to the requirements of the Americans with Disabilities ACT (ADA).

Features

- UL Listed
- CSFM listed
- ADA compliant
- Key reset (Same key as Silent Knight enclosures)
- Surface mount back box available
- Terminals - accept up to 14 gauge wire
- Extremely easy to operate
- Corrosion-resistant gold-plated contacts.

- Reflective label makes it easier to locate in low light

Operation

The SD500-PS/PSDA single action pull stations are operated by a pull on the front pull cover of the station. A plunger switch, wired to a self contained addressable module, is released as the pull station opens to initiate the alarm. Once operated, the cover hangs down and can be seen up to 100 feet away. The pull station is reset by returning the front cover to the normal upright position and relocking the station with a reset key. The reset keys are the same keys used on Silent Knight enclosure.

The SD500-PS/PSDA includes a status LED which blinks, indicating that the addressable module is communicating with the loop. The status LED lights continuously during an alarm. A dip switch on the addressable module is used to set the unique address.

Specifications

Operating Voltage:	24VDC
Standby Current:	.55mA
Alarm Current:	.55mA
Ambient Temperature:	32°F to 120°F (0°C to 49°C)
Mounting:	Single gang box
Optional Reel Surface Mount Box	PS-SMBB



SD500-PS



**SILENT
KNIGHT**

SD500-PSDA**Address: Pull-Station****Engineer:**

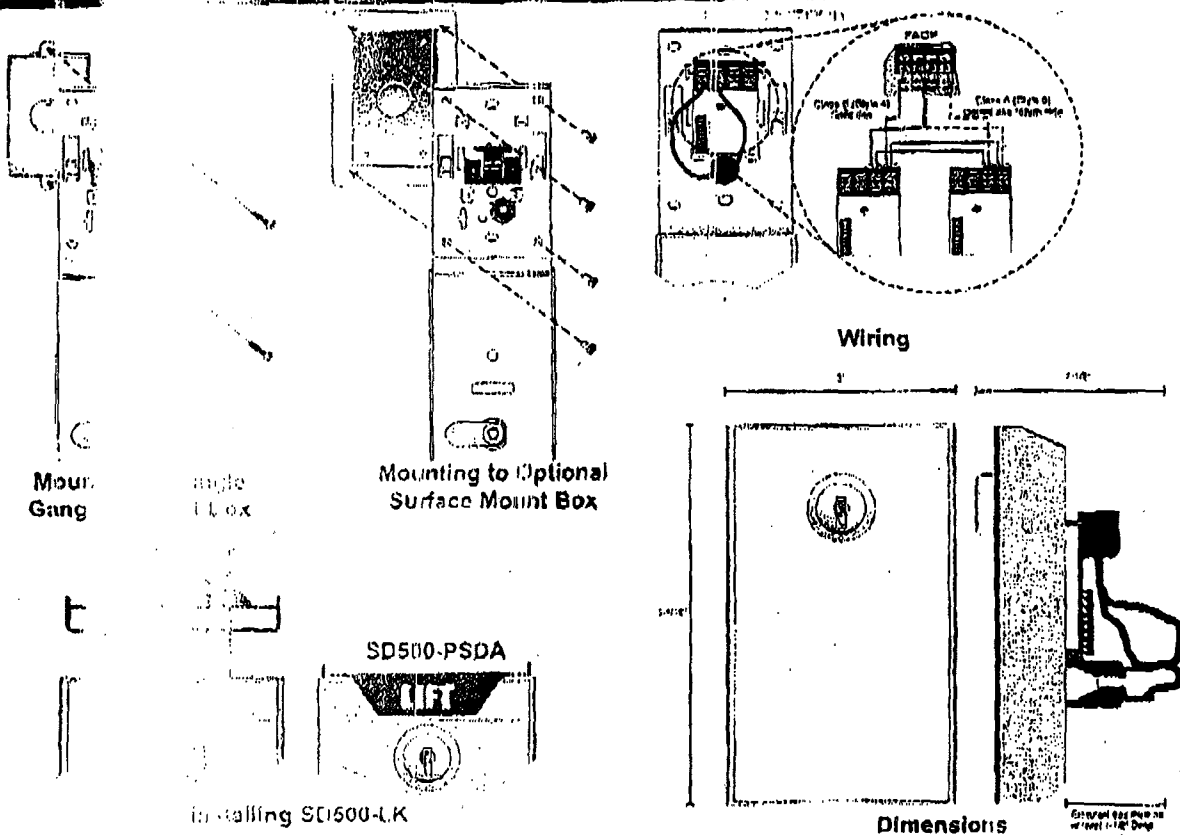
Manual pull
gauge C.R.
be made of
the same
key shall
Manual st.
to the SLC
switch set
Manual st.
American

Sections

that be addressable Module SD500-PS/SD500-PSDA. Equipment shall be made of 14
Bread Steel, painted with a red enamel. The label shall contain the words Fire Alarm and
the material embossed text 3/8 inches tall. Operating instruction shall be clearly visible on
pull station shall contain a key operated test and reset lock using a lock plate actuator. the
control panel.

shall contain four terminal blocks with two connected to the addressable module and two connect
pull station shall provide data to the control panel with an ID address programmed by dip

shall be Undervriters Laboratories Inc. listed and installed within the limits defined in the
specification.

**SILENT
KNIGHT**7550 M.
800

W:

Maple Grove, MN 55369-4927
in Minnesota 763-493-6435
763-493-6475
<http://www.silentknight.com>

MADE IN AMERICA
FORM# 350342, Rev. 09/02

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INSTALLATION AND MAINTENANCE INSTRUCTIONS

SpectrAlert Selectable Output Strobes, Horns, and Horn/Strobes

For use with the following models:

Strobes - 12/24 volt: S1224MC, S1224MCW, S1224MCSP, S1224MCSPW, S1224MCP, S1224MCPW

Combo - 12/24 volt: P1224MC, P1224MCW, P1224MCSP, P1224MCSPW, P1224MCP, P1224MCPW

Horns - H12/24, H12/24W

Suffix "W" indicates white housing models. Suffix "SP" indicates "FIRE AL" (Spanish word for "FIRE") lettering on housing. Suffix "P" indicates plain housing (no lettering).

The Products to which this manual applies may be covered by one or more of the

following U.S. Patent numbers: 5,914,663; 5,850,178; 5,858,136; 6,049,186; 6,131,842; 6,522,261; 6,664,037; 5,911,509; 6,791,175; 6,822,400; 6,833,783; 6,858,000



3825 Ohio Avenue, St. Charles, IL

1 800 SENSOR2, FAX: 618-382-5555

WWW.SYSEN.COM

SPECTRA

Specifications

Automatic selection for 12 or 24 volt rated operation (DC or Full-Wave Rectified)

Electrical

For Horns, Strobes, and

Horn/Strobes Voltages:

Regulated 12 DC/FWR and Regulated 24 DC/FWR

Operational Voltage Ranges:

12V = 8-17.5 volts; 24V = 16-33 Volts

Synchronous Applications

with MDL Module:

12V = 9-17.5 volts; 24V = 17-33 Volts

Operational Humidity Range:

10-93% RH (non-condensing)

NOTE: Horn units will operate on walk tests with on-time durations of .25 sec. or greater.

Flash Rate:

1 flash per second

Operating Temperature:

32° F to 120° F (0° C to 49° C)

Selectable Light Outputs:

All candelas are selectable via a manual slide switch.

12/24 Volt Applications:

15 or 15/75 Candela

24 Volt Application:

30, 75, 110 candela

15/75 is listed at 15 candela per UL 1971 but will provide 75 candela on axis (ahead). 15, 30, 75, or 110 are rated for that candela.

Sound Output:

Sound output levels are established at Underwriters Laboratories in their test room. Always use the sound output specified as UL Reverberant Room when using products.

Listings:

UL S5512 (Strobe); UL S4011 (Combo)

Note for Strobes:

Do not exceed: 1) 8-17.5 or 16-33 voltage range limit; 2) maximum number of strobe lights when connecting the MDL Sync module with a maximum line impedance of 4 ohms per loop and; 3) maximum line impedance as required by alarm control manufacturer.

The models S1224MC, S1224MCW, S1224MCSP, S1224MCSPW, S1224MCP, S1224MCPW, P1224MC, P1224MCW, P1224MCSP, P1224MCSPW, P1224MCP, P1224MCPW incorporate a new patent-pending voltage booster design that has a more consistent flash bulb voltage over the range of candela. A benefit to the consumer is a high quality strobe device.

General Description

The SpectrAlert series notification appliances are designed to meet the requirements of most agencies governing these devices, including: NFPA, ADA, The National Fire Alarm Code, UL, ULC, FM, CSFM, MEA. Also, check with your local Authority Having Jurisdiction for other codes or standards that may apply.

The SpectrAlert series can be installed in systems using 12- or 24-volt panels having DC or full-wave rectified (FWR) power supplies. The series can also be installed in systems requiring synchronization (module MDL or compatible equivalent required) or systems that do not require synchronization (no module required).

NOTICE: This manual shall be left with the owner/user of this equipment.

Fire Alarm System Considerations

Temporal and Non-Temporal Coded Signals:

The American National Standards Institute and International Fire Alarm Code require that all horns used in evacuation installed after July 1, 1996, must produce Temporal Coded Signals.

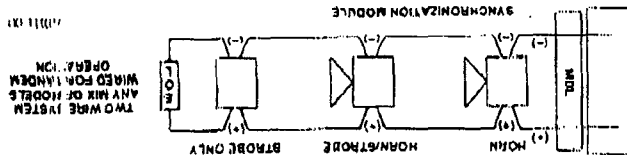
Signals other than those used for evacuation purposes do not have to produce the Temporal Coded Signal. If coding is accomplished by interrupting a steady tone in the following manner:



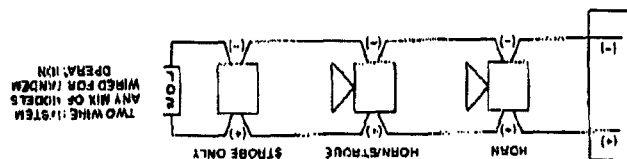
Power Supply Considerations



**Figure 7: Horns and strobes powered independently
(horn operated on coded power supply)**
NOTE: Strobes must be powered continuously for horn operation.



System Operation – Synchronized Devices:



System Operation - Non-Synchronized Devices:

Figure 6: Any combination of models powered by a 4-wire circuit to provide independent horn and strobe operation (remove factory installed jumpers, see Figure 10). Strobes must be powered continuously for horn operation.

Check terminal polarity before wiring. For proper operation, make sure the correct wire polarity is applied to the unit.

WARNING

High/Low Volume
ON = High Volume, OFF = Low Volume

NOTE: When powered from a FWR supply, the horn will be modulated (turned on and off) by 120Hz, causing it to sound different than if powered by a DC supply.

Horn selections using 3-position DIP switch on horn/

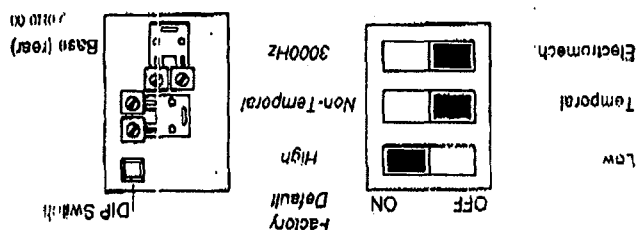


Figure 3: Horn Factory Default Setting

The factory default setting is High, Temporal 3, and Electro-mechanical tone.

NOTE: The low volume setting of some tones must NOT be used for public mode applications when the device is powered from a 12-volt panel. Refer to the Sound Output on the previous page.

on the previous page.

ON = NON-Temporal, OFF = Temporal
3KHz/Electromechanical
ON = 3KHz, OFF = Electromechanical

(ON = 3KHZ, OFF = Electronic)

FCC Statement

THEY'VE GOT TO BE THERE.

THE UNIVERSITY OF MICHIGAN

WARNING

Hookup Diagram

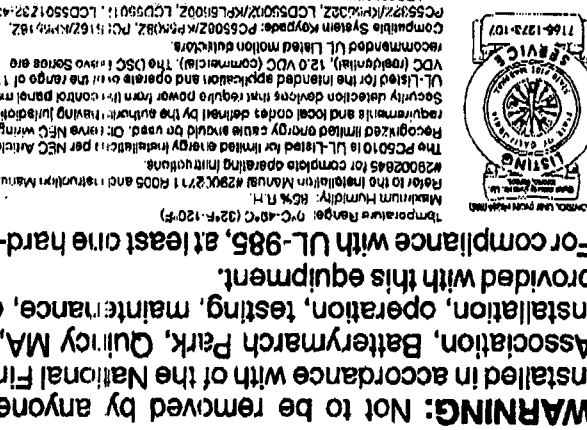
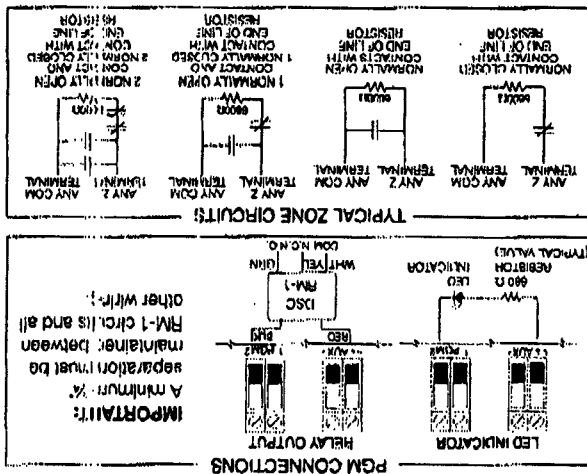
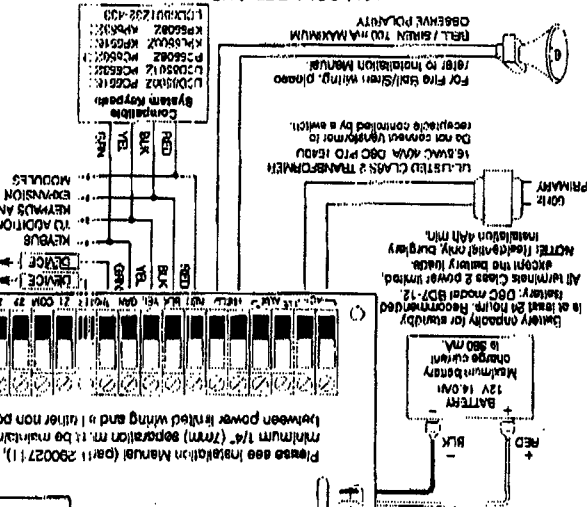
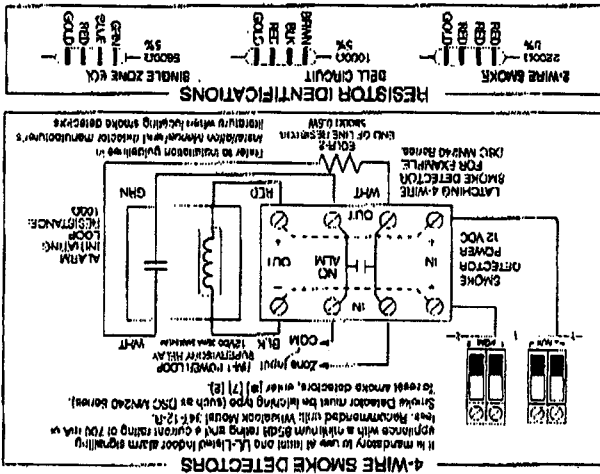
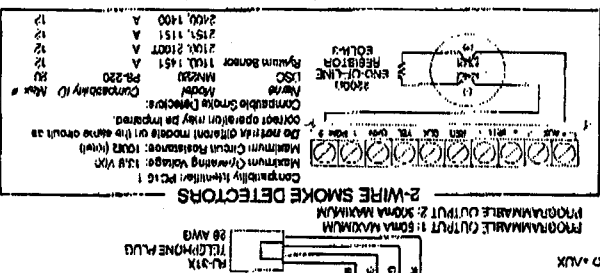
PC501 CONTROL PANEL

WARNING
High voltage.
Disconnect AC
power and
telephone lines
prior to
servicing.

Please see Installation Manual (part 12002211), section 2.3. A minimum 1/8" (7mm) separation must be maintained at all points between power related wiring and a utility non power related wiring.

WARNING
Incorrect wiring may result in fire hazard or improper operation. Inspect wiring and ensure connections are correct before applying power. Do not route any wiring over circuit boards. Maintain at least 1" (25 mm) separation.

APPLICABLE UL STANDARDS
UL 1655 Digital Alarm Communicator System
UL 1023 Household Burglar Alarm System Units
UL 1023 Household Fire Warning System Units
UL 1023 Police Station Connected Burglar Alarm Units and Systems
UL 1023 Local Burglar Alarm Units and Systems
UL 1023 Central Station Burglar Alarm Units
UL 1023 Central Station Burglar Alarm Units



Control Panel is suitable for the following UL installations:
• Household Fire and Grade A Household Burglar
• Grade C Central Station
• For use in installation manual
This device complies with Parts 15 and 68 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
FCC Reg. No.: FCC302-103-AL-E; REN = 0.08 Plug Type: RJ-31X
Made in Canada

For compliance with UL-985, at least one hard-wired smoke detector is required.

WARNING: Not to be removed by anyone except occupant. This equipment should be installed in accordance with the National Fire Code ANSI/NFPA 72 (National Fire Protection Association, Batterymarch Park, Quincy MA, 02269). Printed information describing proper installation, operation, testing, maintenance, evacuation planning, and repair service is to be provided with this equipment.

Model SD500-AIM and SD500-MIM Addressable Input and Mini Input Modules

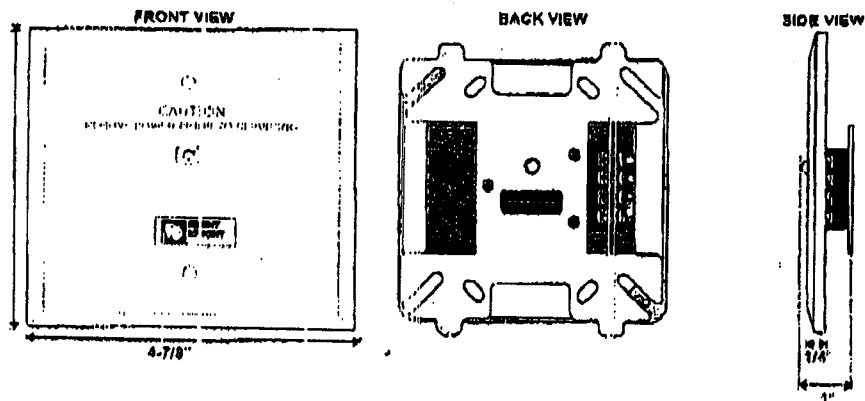


Engineering Specifications

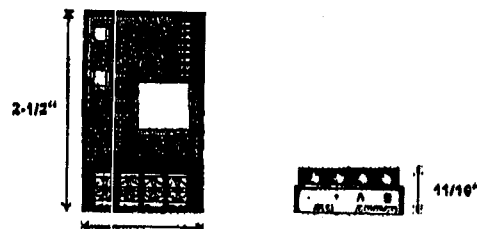
The contractor shall furnish and install where indicated on the plans, addressable input modules Silent Knight SD500-AIM or SD500-MIM. The modules shall be UL listed and compatible with Silent Knight's IntelliKnight FACP's.

The SD500-MIM shall fit inside a single gang electrical box. The SD500-AIM shall be supplied with a plastic cover and shall be suitable for mounting to a 4"-square or double gang electrical box. The SD500-AIM addressable input module must provide a monitor LED that is visible from outside the cover plate.

Model SD500-AIM



Model SD500-MIM



**SILENT
KNIGHT**

7550 Meridian Circle, Maple Grove, MN 55369-4927

800-446-6444 or in Minnesota 763-493-6435

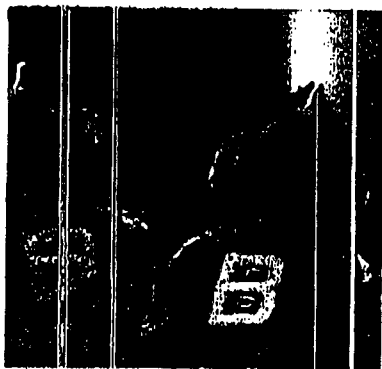
FAX: 763-493-6475

World Wide Web: <http://www.silentknight.com>

MADE IN AMERICA

FORM# 350231 Rev. B

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Model SD500-AIM Addressable Input Module And Model SD500-MIM Miniature Input Module



IntelliKnight's addressable contact monitor modules combine fast response with pin-point location ID. A combination that saves lives and property.

The SD500-AIM and SD500-MIM are addressable input modules for use with Silent Knight's IntelliKnight fire control panels. The SD500-AIM and SD500-MIM are designed to be used with pull stations, water flow switches, and other applications requiring dry contact alarm initiation devices. The SD500-AIM addressable input module mounts to a 4"-square box. The SD500-MIM mini input module fits inside a single gang box. The modules are supervised, single input contact monitors. Using an EOL resistor, they monitor for alarm contact closures and for open circuit wiring fault conditions.

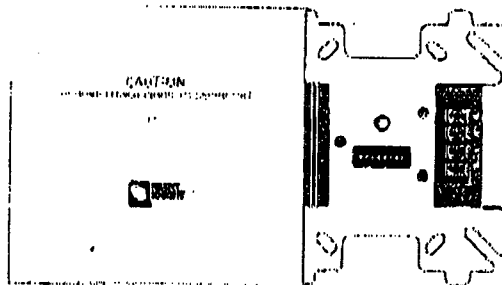
The SD500-AIM and SD500-MIM offer a compact design for adaptability and pleasing aesthetics as well as easy installation and stable operation—a flexible solution for all your fire protection needs.

Model SD500-AIM and SD500-MIM Input Modules

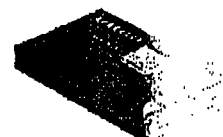
The addressable input modules expand the flexibility of the IntelliKnight system by allowing the use of contact type inputs. Typical applications include manual pull stations and water flow switches.

Features

- Operates on Class A (Style 6 & Style 7) or B (Style 4) SLC Loop.
- Single contact monitor.
- Up to 127 modules per SLC loop.
- SD500-MIM mounts in a single gang box.
- SD500-AIM mounts in a 4"-square or double gang electrical box, and has an attractive ivory cover plate.
- SD500-AIM/MIM are DIP switch programmable.
- Accepts up to 14 gauge wire
- Both modules UL 864 listed; comply with NFPA 72
- 2500 ft max. wiring distance from input module to contact.
- CSFM listed.
- MEA 429-92-E, Vol. 9
- FM approved



SD500-AIM



SD500-MIM

Operation

Each addressable input module is programmed with a unique SLC loop address. The module supervises the wiring to the contact with an End Of Line (EOL) resistor. If a fault occurs in the wiring, the module alerts the FACP.

Specifications

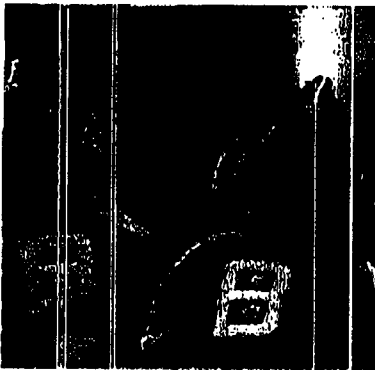
Operating Voltage:	24 VDC
Standby Current:	0.55 mA
Alarm Current:	0.55 mA
Ambient Temperature:	32°F to 120°F (0°C to 49°C)
Mounting:	SD500-AIM: double gang or 4"-square electrical box SD500-MIM: single gang



**SILENT
KNIGHT**

Alarm Company

Model SD505-6RB 6" Relay Base



Add a relay output to an addressable detector with Silent Knight's SD505-6RB

The SD505-6RB adds a relay output function to an addressable detector. Providing two Form C contacts rated at 8.0 amps for 240 VAC, 120 VAC and 30 VDC. The SD505-6RB allows you to control a wide variety of normally open and normally closed applications, including elevator recall, door closing, fan operation, and auxiliary notification. And, because the relay module is addressable, these applications can be located at any point in the signaling line circuit.

The SD505-6RB is compact and mounts in an extension base that is compatible with the SD505-APS, SD505-AIS, or SD505-AHS. Combine this with the features you've come to expect from Silent Knight fire protection devices—easy installation and stable operation—and it adds up to a flexible solution for all your fire protection needs.

Model SD505-6RB

The SD505-6RB provides a set of Form C contacts rated at 8.0 amps for 240 VAC, 120 VAC and 30 VDC. The contact can be used for virtually any normal open or normally closed application.

Operation

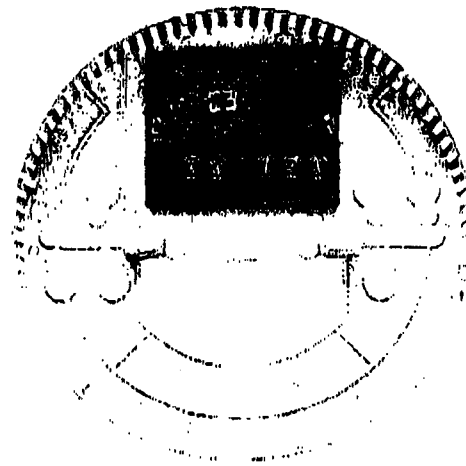
Each relay module is programmed with a unique SLC loop address. When an event that controls the relay module occurs, the relay is triggered by the IntelliKnight panel.

Features:

- Adds an 8.0 A relay output to an addressable detector
- Fully supervised
- Can be used with either style 4 or style 6 supervision.
- Mounts to a standard single or double gang electrical box.
- UL Listed
- Adds relay output without using another SLC addresses

Specifications

Relay Rating:	8.0A @ 30 VDC 8.0A @ 240/120 VAC
SLC Current Draw:	.082 mA
Max. SLC Loop Resistance:	50Ω
Mounting:	Single or double gang
Operating Temperature:	32°F to 120°F (0°C to 49°C)

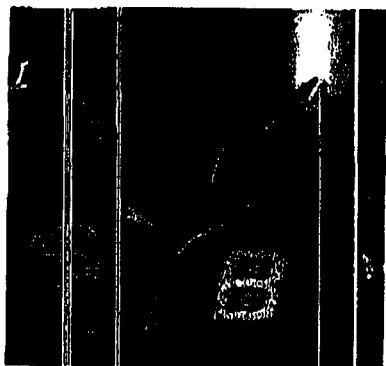


Model SD505-6RB



**SILENT
KNIGHT**

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Addressable Photoelectric Type Smoke Detector



Detect smoldering fires quickly and get help fast with IntelliKnight® photoelectric smoke detectors.

IntelliKnight addressable photoelectric smoke detectors are the clear choice for commercial settings where smoldering fires are a threat. In addition to accurately detecting a smoldering fire, each SD505-APS photoelectric detector has a unique address, which is recognized by the IntelliKnight panel. No precious seconds are wasted in determining location of an alarm.

The SD505-APS compensates automatically for contamination in the environment. And detector testing is simple—even from a remote site. Like other IntelliKnight detector models, the SD505-APS offers a low profile for pleasing aesthetics. The IntelliKnight family of detectors has been designed to use a common base, Model SD505-6AB, allowing complete application and placement flexibility. Combine all this with the features you've come to expect from Silent Knight smoke detectors—easy installation, stable operation, RF/transient protection, and vandal-resistant locking—and it adds up to a flexible solution for all your fire protection needs.

Model SD505-APS Analog / Addressable Photoelectric Type Smoke Detector

The SD505-APS is particularly suited to detecting dense smoke typical of fires involving materials such as soft furnishings, plastic foam or other similar materials which tend to smolder and produce large visible particles.

The detector features automatic compensation for contamination and a simple detector calibration test procedure that can be run from the panel or remotely (using the Windows™ based downloading software).

Operation

The SD505-APS units made up of an LED light source and a silicon photo diode receiving element. In a normal standby condition, the receiving element receives no light from the pulsing light source. In the event of fire, smoke enters the detector and light is reflected from the smoke particles to the receiving element.

The light received is converted into an electronic signal. Under normal conditions, the status LED blinks approximately every 15 seconds, indicating that the head is communicating with the loop. The LED lights continuously during the alarm period.

Features

- Low profile, 2 inches, including base
- Simple and reliable addressing without mechanical switches
- Automatic compensation for sensor contamination
- Built-in fire test feature
- Simple detector calibration testing through the control panel or remotely through a Windows™ based computer software.
- Vandal-resistance locking features
- Field cleanable
- UL listed, meets NFPA 72 Ch 7 requirements
- CSFM approved
- MEA approved
- FM Approved



SD505-APS Smoke Detector

Specifications

Operating Voltage: 17-41 VDC

Current Consumption:

Standby: .55 mA
Alarm: .55 mA

Ambient Temperature: 32°F to 100°F
(0°C to 50°C)

Mounting: 4" Square, 4" OCT, Single gang mud ring

Relative Humidity: 85% noncondensing

Air Velocity: 0 - 300 FPM

Compatible Bases: SD505-6AB
(Sold Separately) (6" Base)
SD505-4AB
(4" Base)



**SILENT
KNIGHT**

A Honeywell Company

Model SD505-APS Addressable Photoelectric Type Smoke Detector



Engineering Specifications

The contractor shall furnish and install where indicated on the plans, addressable photoelectric smoke detector Silent Knight SD505-APS. The combination detector head, and twist-lock base, shall be UL® listed compatible with Silent Knight's IntelliKnight fire control panels.

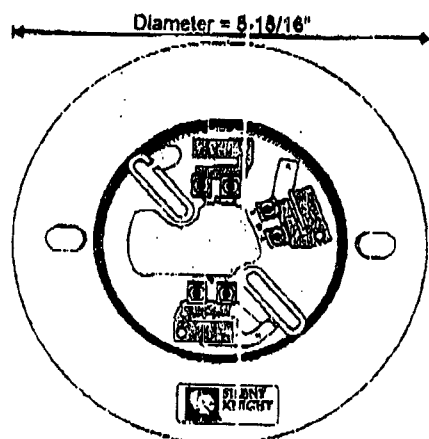
The base shall permit direct interchange with Silent Knight SD506-AIS Ionization Smoke Detector, or SD505-AHS Heat Detector. Base shall be the appropriate twist-lock base SD505-6AB.

The smoke detector shall have a flashing status LED for visual supervision. When the detector is actuated, the flashing LED will latch on steady. The detector may be reset by actuating the control panel reset switch.

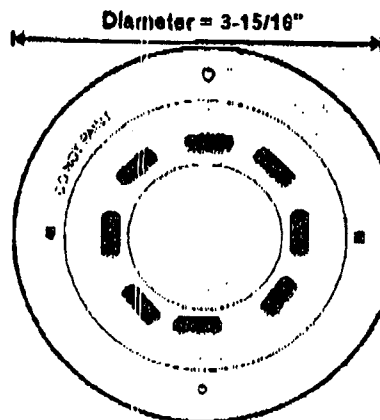
The calibration of the detector shall be capable of being selected and measured by the control panel without the need for external test apparatus.

The vandal-resistant, security locking feature shall be used in those areas as indicated on the drawing. The locking feature shall be field selectable as required.

The SD505-APS shall automatically perform a functional test of the detector. The test method shall simulate effects of products of combustion in the chamber to ensure testing of detector circuits.



**Model SD505-6AB Detector Base
(front view)**



**Model SD505-APS Detector Head
(front view)**

Height = 2 inches,
including base



**SILENT
KNIGHT**

A Honeywell Company

7550 Meridian Circle, Maple Grove, MN 55366-4927

800-446-6444 or in Minnesota 763-493-6435

FAX: 763-493-6475

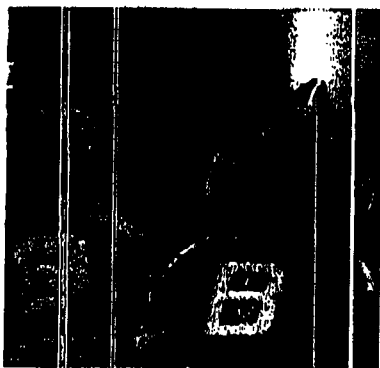
World Wide Web: <http://www.silentknight.com>

MADE IN AMERICA

FORM# 350228, Rev. 02/004

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Addressable Heat Detector



IntelliKnight® addressable heat detectors combine accurate heat detection with pin-point location ID.

An essential combination for any installation.

IntelliKnight heat detectors are an essential component in virtually any IntelliKnight installation. The IntelliKnight panel recognizes each detector by its specific address, so precious seconds are not wasted in determining location of an alarm.

Like other IntelliKnight detector models, the SD505-AHS offers a low profile for pleasing aesthetics.

The IntelliKnight family of detectors has been designed to use a common base, Model SD505-6AB, allowing complete application and placement flexibility. Combine all this with the features you've come to expect from Silent Knight detectors—easy installation, stable operation, RF/transient protection, and vandal-resistant locking—and it adds up to a flexible solution for all your fire protection needs.

Model SD505-AHS Addressable Heat Detector

The SD505-AHS is a heat detector suited to virtually any commercial setting. The SD505-AHS is an absolute temperature device. This means that it responds in alarm if the temperature goes above the trip point (programmed at the panel).

The SD505-AHS provides accurate temperature measurement data to the fire alarm control panel. This heat detector is particularly suited to environments where smoke detectors cannot be used because of the presence of steam or cooking fumes, such as in a kitchen.

Operation

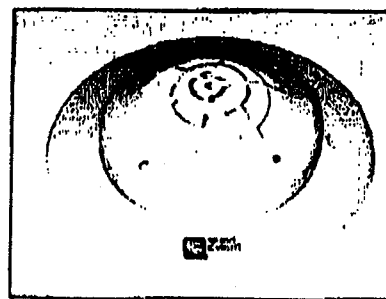
The SD505-AHS unit is made up of an externally mounted thermistor with a specially designed cover that protects the thermistor while allowing maximum air flow. The thermistor reads the temperature from the air it takes in. It then transmits a signal representing the temperature to the IntelliKnight panel.

If the temperature exceeds the trip point (programmed at the panel), an alarm occurs. The status LED lights continuously during the alarm period.

Under normal conditions, the status LED blinks approximately every 15 seconds, indicating that the head is communicating with the loop.

Features

- Low profile: 2 inches, including base
- Absolute temperature device
- Simple and reliable addressing
- Uses digital communication protocol
- The SD505-AHS is UL Listed and meets the requirements outlined in NFPA 72 Inspection Testing and Maintenance, Chapter 7.
- CFSM listed
- MEA listed
- FM approved



SD505-AHS Heat Detector Specifications

Operating Voltage:	17 to 41 VDC
Current Consumption:	
Standby:	.55 mA
Alarm:	.55 mA
Detection Temperature Range:	135°F to 150°F (57°C TO 65°C)
Ambient Temperature:	32°F to 100°F (0°C to 37°C)
Mounting:	4" SQR, 4" OCT Single gang mud ring
Rated Spacing:	70' between sensors on smooth ceilings.
Compatible Bases: (Sold Separately)	SD505-6AB (6" Base) SD505-4AB (4" Base)



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Model SD505-AHS Addressable Heat Detector



Engineering Specifications

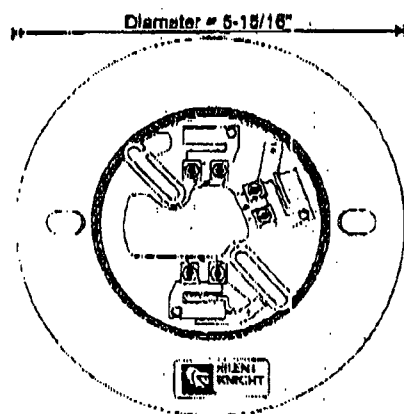
The contractor shall furnish and install where indicated on the plans, addressable heat detector Silent Knight SD505-AHS. The combination detector head, and twist-lock base, shall be UL® listed compatible with Silent Knight's IntelliKnight fire alarm control panels.

The base shall permit direct interchange with Silent SD505-APS Photoelectric Smoke Detector, or SD505-AIS Ionization Smoke Detector. Base shall be the appropriate twist-lock base SD505-6AB.

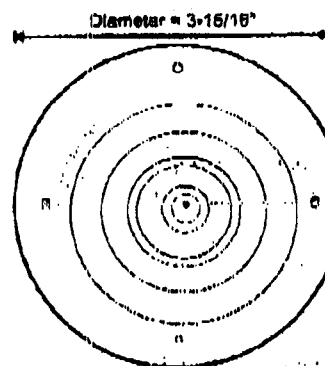
The smoke detector shall have a flashing status LED for visual supervision. When the detector is actuated, the flashing LED will latch on steady at full brilliance. This detector may be reset by actuating the control panel reset switch.

The vandal-resistant, security locking feature shall be used in those areas as indicated on the drawing. The locking feature shall be field removable when not required.

Voltage and RF/transient suppression techniques shall be employed to minimize false alarm potential.



Model SD505-6AB Detector Base
(Front View)



Height = 2 inches,
including base

Model SD505-AHS Detector Head
(Front View)



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