

32923

BLOCK 4.46 LOT 1.04 QUALIFICATION CODE _____ ADDRESS (SITE) 2431 US Route 1 PERMIT NO. _____NORTH
BRUNSWICK
TOWNSHIPCONSTRUCTION PERMIT
APPLICATION

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

I. IDENTIFICATION

1. Proposed Work Site at: 2431 US Route 1
2. Name of Owner in Fee: Cici's Pizza (Tenant Space)
- Tel. (908) 720-7776 e-mail: _____
- Address 2431 US Route 1, North Brunswick, NJ 08902
3. Ownership in Fee: Public _____ Private _____
4. Principal Contractor: Complete Security Systems, Inc. Tel. (732) 780-6787
- Address 24 VANDERBURG ROAD, MARLBORO, NJ 07746 e-mail: info@CompleteSecuritySystems.com
- License No. OR, if new home, Bulder Reg. No. DCA P00064.13VH00506400 Exp. Date 10/31/12
- Federal Employee No. 222684897 FAX: (732) 845-4789
5. Architect or Engineer _____ Contact _____
- Address _____ e-mail: _____
- Tel. (_____) _____ FAX: (_____) _____
6. Responsible Person in Charge once Work has begun: Bob Pfleger
- Tel. (732) 780-6787 ext. 109 FAX: (732) 845-4789

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	Re-viewer
1. ☐ Minor work								
2. ☐ New Building								
3. ☐ Addition								
4. ☐ a. Repair								
☐ b. Alteration								
☐ c. Renovation								
☐ d. Reconstruction								
5. ☒ Fire Protection	\$2,360.00				8-20-12			
6. ☐ Plumbing								
7. ☒ Electrical	\$2,000.00							
8. ☐ Elevator Devices								
9. ☐ Asbestos Abat. Subch. 8								
10. ☐ Lead Hazard Abatement								
11. ☐ Demolition								
TOTAL COSTS	\$4,360.00							

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 Walls
9. ☐ Underground Storage Tanks
10. ☐ Swimming Pools, Spas, and Hot Tubs

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$		
2. Electrical	\$	33	
3. Plumbing			
4. Fire Protection		369	
5. Elevator Devices			
6. Subtotal (Admin)	\$	5	
7. Less 20% for State Plan Review			
8. Subtotal	\$		
9. State Permit Surcharge Fee		7	
10. Subtotal	\$		
11. Cert. of Occupancy			
12. Other			
13. TOTAL	\$	434	

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)

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: All Units income-restricted
- 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: _____

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 New Jersey 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.

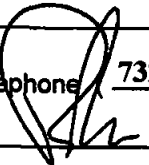
I understand that if any of the above statements are willfully false, I am subject to punishment.

(X) Check if contractor.

Agent Name  Complete Security Systems, Inc. COMPLETE SECURITY SYSTEMS, INC.

Address 94 VANDERBURG ROAD, MARLBORO, NJ 07746

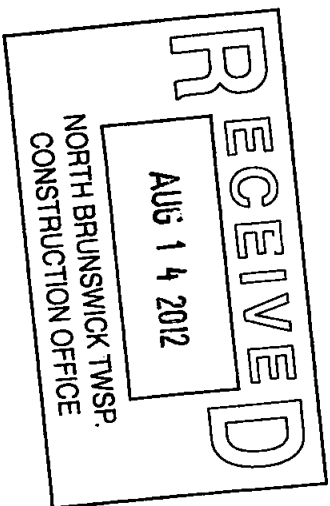
Telephone (732) 780-6787

Signature  ROBERT PFLEGER Date August 14, 2012

VIII. PRIOR APPROVALS CHECKLIST (office use only)	LOCAL APPROVAL		COUNTY APPROVAL		REGIONAL APPROVAL		STATE APPROVAL		COMMENTS
	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	
☐ Zoning Officer									
☐ Planning Board									
☐ Zoning Board									
☐ Sewer Authority									
☐ Water Authority									
☐ Fire Department									
☐ Police Department									
☐ Health Department									
☐ Soil Conservation									
☐ N.J. Dept. of Community Affairs									
☐ N.J. Department of Transportation									
☐ N.J. Dept. of Environmental Protect.									
☐ Utility Dig No.									
☐									
☐									

IX. SUBCODES AND SPECIAL REGULATIONS APPLICABLE (office use only - optional)			
Name of Code & Edition		Name of Code & Edition	
Building _____	Energy _____	Other _____	
Electrical _____	Barrier Free _____	_____	
Plumbing _____	Flood Hazard _____	_____	
Fire Protection _____	As Built Elevation Cert. _____	_____	
Mechanical _____	Other _____	_____	

X. CERTIFICATES ISSUED (office use only)		DATE ISSUED	DATE EXPIRED	DATE REISSUED	DATE EXPIRED
☐ Temporary Certificate of Occupancy	No. _____	_____	_____	_____	_____
☐ Temporary Certificate of Compliance	No. _____	_____	_____	_____	_____
☐ Continued Certificate of Occupancy	No. _____	_____	_____	_____	_____
☐ Certificate of Compliance	No. _____	_____	_____	_____	_____
☐ Certificate of Occupancy	No. _____	_____	_____	_____	_____
☐ Certificate of Approval	No. _____	_____	_____	_____	_____





TOWNSHIP OF NORTH BRUNSWICK
710 HERMANN ROAD
NORTH BRUNSWICK, NJ 08902
732 - 247-0922

Control Number: 32923
Application Date: 08/14/2012

CONSTRUCTION PERMIT IDENTIFICATION

OWNER/PROPERTY DETAILS

Block: 4.46 Lot: 1.4 Qualification Code:
Work Site Location: 2431 US ROUTE 1 NORTH BRUNSWICK

Owner In Fee: COMMERCE CENTER NBLLC
Address: 546 5TH AVENUE
NEW YORK NY 10036

Telephone: (347) 392-0702

Use Group(s): B

Contractor: COMPLETE SECURITY SYSTEMS

Address: 16 NORTH MAIN STREET
MARLBORO NJ 07746

Telephone: ()

Lic. No. / Bldrs. Reg. No.:

Federal Emp. No.: 22-2684897

is hereby granted permission to perform the following work :

☐ BUILDING ☐ PLUMBING ☐ DEMOLITION
☒ ELECTRICAL ☒ FIRE PROTECTION ☐ OTHER
☐ ELEVATOR DEVICES ☐ MECHANICAL
☐ ASBESTOS ABATEMENT ☐ LEAD HAZARD ABATEMENT

(Subchapter 8 only)

DESCRIPTION OF WORK:
CICIS PIZZA - FIRE ALARM

ESTIMATED COST OF WORK:

Cost of Construction: 0.00
Cost of Rehabilitation: 4,360.00
Cost of Demolition: 0.00

Total Cost: \$4,360.00

PAYMENTS (Office Use Only)

Building	
Electrical	\$38.00
Plumbing	
Fire Protection	\$389.00
Elevator Devices	
Mechanical	
VolFee (DCA)	
AltFee (DCA)	\$7.00
DCA Minimum Fee	\$0.00
Other Fees	
CO Fee	
CCO Fee	
Minimum Fee	
Total	\$434.00
All Fees Waived:	No

Amount to be Paid: \$434.00

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.

THOMAS PAUN

8/21/12
Date

Construction Official

Note:



TOWNSHIP OF NORTH BRUNSWICK
710 HERMANN ROAD
NORTH BRUNSWICK, NJ 08902
732 - 247-0922

Permit Number: 20120589
Update Number: 2
Control Number: 32923
Application Date: 08/14/2012
Permit Date: 08/21/2012

CONSTRUCTION PERMIT UPDATE

IDENTIFICATION

OWNER/PROPERTY DETAILS

Block: 4.46	Lot: 1.4	Qualification Code:	
Work Site Location:	2431 US ROUTE 1 NORTH BRUNSWICK		
Owner In Fee:	COMMERCE CENTER NBLLC		
Address:	546 5TH AVENUE NEW YORK NY 10036		
Telephone:	(347) 392-0702	Lic. No. / Bldrs. Reg. No.:	
Use Group(s):	B	Federal Emp. No.:	22-2684897
Contractor:	COMPLETE SECURITY SYSTEMS		
Address:	16 NORTH MAIN STREET MARLBORO NJ 07746		
Telephone:	0		

is hereby granted permission to perform the following work :

- | | | |
|--|---|-------------------------------------|
| ☐ BUILDING | ☐ PLUMBING | ☐ DEMOLITION |
| ☒ ELECTRICAL | ☒ FIRE PROTECTION | ☐ OTHER |
| ☐ ELEVATOR DEVICES | ☐ MECHANICAL | |
| ☐ ASBESTOS ABATEMENT | ☐ LEAD HAZARD ABATEMENT | |

(Subchapter 8 only)

DESCRIPTION OF WORK:
CICIS PIZZA - FIRE ALARM

ESTIMATED COST OF WORK:

Cost of Construction: 0.00
Cost of Rehabilitation: 4,360.00
Cost of Demolition: 0.00

Total Cost: \$4,360.00

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.

THOMAS PAUN
Construction Official

Date

PAYMENTS (Office Use Only)	
Building	
Electrical	\$38.00
Plumbing	
Fire Protection	\$389.00
Elevator Devices	
Mechanical	
VolFee (DCA)	
AltFee (DCA)	\$7.00
DCA Minimum Fee	\$0.00
Other Fees	
CO Fee	
CCO Fee	
Minimum Fee	
Total	\$434.00
All Fees Waived:	No

Amount to be Paid: \$434.00
Check Number: 1018
Check amount: \$434.00

Collected by: mw
Receipt No:
Total Cash Amount:
Total Check Amount: \$434.00
Total CC Amount:
Grand Total: \$434.00

Note:



Date Issued
Permit #

Block 4.46 Lot 1.04 Qualification Code _____
Work Site Location 2431 US Route 1

Federal Emp. ID No. **222684897** FAX (**732**) **845-4789**

Est. Cost of Elec. Work \$ 2,000.00

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

☐ Licensed Elec. Contractor ☐ Certifd Landscape Irrigation Contrt ☒ Exempt Applicant

QTY.	SIZE	ITEMS
------	------	-------

_____	Lighting Fixtures
_____	Receptacles
<u>1</u>	Switches Booster
<u>2</u>	Detectors
_____	Light Poles
_____	Motors - Fract. HP
_____	Emergency & Exit Lights
<u>4</u>	Communication Points
_____	Alarm Devices/F.A.C. Panel
<u>8</u>	Notification Appliances
<u>15</u>	TOTAL NUMBERS
_____	Pool Permit/with UW Lights
_____	Storable Pool/Spa/Hot Tub
_____	KW Elec. Range/Receptacle
_____	KW Oven/Surface Unit
_____	KW Elec. Water Heater
_____	KW Elec. Dryer/Receptacle
_____	KW Dishwasher
_____	HP Garbage Disposal
_____	KW Central A/C Unit
_____	HP/KW Space Heater/Air Handler
_____	KW Baseboard Heat
_____	HP Motors 1/+ HP
_____	KW Transformer/Generator
_____	AMP Service
_____	AMP Subpanels
_____	AMP Motor Control Center
_____	KW Elec. Sign/Outline Light

FEE (Office Use Only)

S

Approved by: _____

Date of Grounding and Bonding

Date of Grounding and Bonding Certification _____

Administrative Surcharge	\$	_____
Minimum Fee	\$	_____
State Permit Surcharge Fee	\$	_____
TOTAL FEE	\$	_____



NORTH BRUNSWICK TOWNSHIP FIRE PROTECTION SUBCODE TECHNICAL SECTION



LOW VOLTAGE

Date Received
Control #

Date Issued
Permit #

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

Block 4.46 Lot 1.04 Qualification Code _____
Work Site Location 2431 US Route 1

Owner in Fee: Cici's Pizza (Tenant Space)

Tel. (908) 720-7776 e-mail _____

Address 2431 US Route 1, North Brunswick, NJ 08902

Contractor COMPLETE SECURITY SYSTEMS Tel. (732) 780-6787

Address 94 Vandenburg Rd, Marlboro, NJ 07746 e-mail Bob.Pfeffer@CompleteSecuritySystems.com

Fire Protection Equipment, NJ Div of Fire Safety Permit No. _____

Fire Protection Equipment, NJ Div of Fire Safety Installer No. _____

Fire Alarm Contractor No. P00064 Exp. Date October 31, 2012

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): 13VH00506400

Federal Emp. ID No. 222684897 FAX: (732) 845-4789

B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present _____ Proposed _____ Fire Alarm System: [] New or [X] Existing

Constr. Class: Present _____ Proposed _____ Location of Panel: _____

Heating System: [] New OR [] Existing [] HVAC Fire Suppression/Standpipe System

Type [] Gas [] Oil [] Electric [] Solar [] New or [] Existing

[] Other _____ Location of Main Control Valve: _____

Location: _____

Fuel Storage Tank: _____

Fuel Type: [] Flammable or [] Combustible Capacity _____

Total Cost of Fire Protection Work \$ 2,360.00

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.

[X] Certified Contractor

[] Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:

Additions to existing automatic fire alarm and notification system for tenant space.

Water Supply Source _____

Method of Alarm/Suppression System Supervision _____

	NUMBER	FEE (Office Use Only)
Flammable/Combustible Tanks	_____	_____
Alarm Systems	_____	_____
[] System	_____	_____
[] 110v Interconnected	_____	_____
[] CO Detectors/110v	_____	_____
Alarm Devices (i.e., Smoke, heat, pulls, waterflow)	<u>6</u>	_____
Supervisory Devices (i.e., tampers, low/high air)	_____	_____
Signaling Devices (i.e., Horn/strobes, bells)	<u>8</u>	_____
Other Devices <u>NAC Booster</u>	<u>1</u>	_____
TOTAL	<u>15</u>	_____
Suppression Systems	_____	_____
Fire Pump _____ GPM Type _____	_____	_____
Dry Pipe/Alarm Valves	_____	_____
Pre-action Valves	_____	_____
Sprinkler Heads (Dry and Wet)	_____	_____
Standpipes	_____	_____
Pre-engineered Systems	_____	_____
Wet Chemical	_____	_____
Dry Chemical	_____	_____
CO ₂ Suppression	_____	_____
Foam Suppression	_____	_____
FM200 Suppression	_____	_____
Other _____	_____	_____
Other Systems	_____	_____
Kitchen Hood Exhaust System	_____	_____
Smoke Control System	_____	_____
Fired Appliances [] Gas or [] Oil	_____	_____
Fireplace Venting/Metal Chimney	_____	_____
Other _____	_____	_____

JOB SUMMARY (Office Use Only)		INSPECTIONS		Dates (Month/Day)	
PLAN REVIEW		Type	Failure	Approval	Initial
[] No Plans Required		Alarm System	_____	_____	_____
[] Partial - Underslab Utilities Approved		Suppression Sys.	_____	_____	_____
Date: _____ Approved By: _____		Standpipe	_____	_____	_____
[X] Fire Protection Plans Approved		Fire Pump	_____	_____	_____
Date: <u>8-20-12</u> Approved By: <u>[Signature]</u>		Pre-Eng. System	_____	_____	_____
Joint Plan Review Required:		Mechanical	_____	_____	_____
[] Bldg. [] Elec. [] Plumb. [] Elev.		Smoke Control	_____	_____	_____
SUBCODE APPROVAL for PERMIT		TCO	_____	_____	_____
Date: _____		Flam/Combust Tanks	_____	_____	_____
Approved by: _____		Fireplace Venting	_____	_____	_____
SUBCODE APPROVAL for CERTIFICATE		Final	_____	_____	_____
[] CO [] CCO [] CA		Other _____	_____	_____	_____
Date: _____					
Approved by: _____					

Administrative Surcharge \$ _____
Minimum Fee \$ _____
State Permit Surcharge Fee \$ _____
TOTAL FEE \$ _____



COMPLETE
SECURITY
SYSTEMS, INC.

LIST OF PROTECTION

**Cici's Pizza (Tenant Space)
2431 US Route 1
(Block 4.46, Lot 1.04)
North Brunswick, NJ 08902**

LIST OF PROTECTION

Fire Alarm System Additions for Tenant Space

Supply and Install the following:

1. Five (5) P2R System Sensor ADA, U.L. and NFPA Approved Horn/Strobes – Red
 - Located to provide adequate coverage throughout restaurant
2. Three (3) SR System Sensor ADA, U.L. and NFPA Approved Strobes Only – Red
 - One (1) in each restroom
3. One (1) Notifier FCPS-24S8 NAC Panel – 8 amp
 - To power Horn/Strobes and Strobes only
4. Two (2) Notifier NOT-BG12LX Addressable Manual Pull Stations
 - One (1) at each exit
5. Four (4) Notifier NMM-100 Addressable Monitor Modules
 - To monitor duct detectors
6. Connect to Existing Fire Warden 100 Fire Alarm Control Panel
7. Includes Wire and Electrical Hardware to Install Accordingly
8. Labor to Install / Program / Test



State of New Jersey
Department of Community Affairs
Division of Fire Safety



Hereby Issues To

COMPLETE SECURITY SYSTEMS

Fire Protection Equipment Contractor Business Permit

In The Following Fire Protection Areas:

Fire Alarm System

COPY

<u>P00064</u>	<u>10/07/2009</u>	<u>to 10/31/2012</u>
Permit ID	Date Issued	Lapse Date

Charles A. Rubin
Acting Commissioner

COPY

New Jersey Office of the Attorney General
Division of Consumer Affairs
THIS IS TO CERTIFY THAT THE
Division of Consumer Affairs
HAS REGISTERED
Complete Security Systems Inc.
as a Fire Protection Contractor

STAN ELECTRICIAN OR PLUMBER'S LICENSE
11/07/2011 TO 12/31/2012
VALID

13VH00506400
License/Registration Certificate #

[Signature]
DIRECTOR

COPY

New Jersey Office of the Attorney General
Division of Consumer Affairs
THIS IS TO CERTIFY THAT THE
Fire Alarm, Sprinkler Alarm & Locksmiths Act Group
HAS REGISTERED
Complete Security Systems Inc.
as a BA and FA Business

11/06/2010 TO 01/31/2014
VALID

348F00009600
License/Registration Certificate #

[Signature]
ACTING DIRECTOR



**Cici's Pizza (Tenant Space)
2431 US Route 1
(Block 4.46, Lot 1.04)
North Brunswick, NJ 08902**

Fire Alarm Sequence of Operation

The system shall identify any off normal condition and log each condition into the system database as an event. Operation of any alarm initiation device (smoke detector, pull station, water flow detector, etc.) shall automatically:

1. Update the control panel and remote display.
2. Activate all alarm signaling devices, i.e., speaker/strobes, horn/strobes and strobe only devices.
3. Transmit signals to the central station, by way of the internal digital communicator (DACT) or approved transmission method.
4. Operate any associated auxiliary relay, i.e., fan shutdown, door holders, elevator recall, etc.
5. System will sound until physically reset.
6. System will continue to display the area, point, or zone of activation until the system reset key is depressed.

A system trouble condition will automatically:

1. Update the control panel and remote display and activate the trouble sounder.
2. Transmit a trouble signal to the central station, by way of the internal digital communicator (DACT) or approved transmission method.
3. The trouble indication shall remain until condition is repaired.

Wire:

NAC circuits: 16/4 FPLR

Initiation Device Circuits: 18/4 FPLR

NOTE:

The fire detection equipment contained and/or described on this package, and any subsequent reference material, is proposed for installation within those guidelines established by the National Fire Protection Association (NFPA) and contained in the National Fire Alarm Code (NFPA - Chapter 72), 2007 edition.



COMPLETE
SECURITY
SYSTEMS, INC.

SEQUENCE OF OPERATION and GENERAL NOTES

The fire detection equipment contained and/or described on this package, and any subsequent reference material, is proposed for installation within those guidelines established by the National Fire Protection Association (NFPA) and contained in the National Electric Code (NFPA - Chapter 70), 2008 edition and further explained in Article(s):

210 inclusive and as applicable

250 inclusive and as applicable

300 inclusive and as applicable

310 inclusive and as applicable

725 inclusive and as applicable

760 inclusive and as applicable

NOTE:

All wiring shall be installed and protected in accordance with NEC(2008) Sections 760, 770, 800.

NOTE:

Visual notification appliance placement and candela ratings are in accordance with NFPA 72(2007) Chapter 7.

NOTE:

Duct Detection for noted units is omitted as noted in IMC(2006) Section 606.2.1 for CFM ratings of 2000 CFM or less. And as noted in the exception area of same, unit shut down will comply with section 606.4.

Fire Alarm System Secondary Battery-set Calculation Worksheet

ITEM	DESCRIPTION	STANDBY CURRENT PER UNIT (AMPS)	QTY	TOTAL STANDBY CURRENT PER ITEM	ALARM CURRENT PER UNIT (AMPS)	QTY	TOTAL ALARM CURRENT PER ITEM			
BOOST	NAC Booster	0.2000	X	0.2000	0.2000	X	0.2000			
BELL	FDC Bell	0.0000	X	0.0000	0.0800	X	0.0000			
HORN	Horn	0.0000	X	0.0000	0.0600	X	0.0000			
STROBE	Strobe	0.0000	X	0.0000	0.0860	X	0.1980			
H/S	Horn/Strobe	0.0000	X	0.0000	0.2120	X	1.0600			
0	0	0.0000	X	0.0000	0.0000	X	0.0000			
TOTAL SYSTEM				0.2000	TOTAL SYSTEM					
STANDBY CURRENT (AMPS)				0.2000	ALARM CURRENT (AMPS)					
1.4580										
Prepared for: Cici's Pizza, 2431 IS, Route 1 (Block 4.48, Lot 1.04), North Brunswick, NJ 08902 BOOSTER										
		REQUIRED STANDBY TIME (HRS) NFPA 72	TOTAL SYSTEM STANDBY CURRENT (AMPS)	REQUIRED STANDBY CAPACITY (AMP-HOURS)	REQUIRED ALARM TIME (HOURS) NFPA 72	TOTAL SYSTEM ALARM CURRENT (AMPS)	REQUIRED ALARM CAPACITY (AMP-HOURS)			
		24 X	0.2000	4.8000	0.083	X	1.4580			
Prepared by: C98										
		REQUIRED STANDBY CAPACITY (AMP-HOURS)	REQUIRED ALARM CAPACITY (AMP-HOURS)	TOTAL CAPACITY (AMP-HOURS)	TOTAL CAPACITY (AMP-HOURS)	SAFETY FACTOR	ADJUSTED BATTERY CAPACITY (AMP-HOURS)			
		4.80	+	0.1210	=	4.9210	+	20%	=	6



Selectable Output Horns, Strobes, and Horn/Strobes

SpectrAlert® Advance selectable-output horns, strobes, and horn/strobes are rich with features guaranteed to cut installation times and maximize profits.



SPECTRAlert
ADVANCE
from System Sensor

Features

- Electrically compatible with existing SpectrAlert products
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Plug-in design
- Field selectable candela settings on wall and ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185
- Same mounting plate for wall- and ceiling-mount units
- Shorting spring on mounting plate for continuity check before installation
- Tamper resistant construction
- Outdoor wall and ceiling products rated from -40°F to 151°F
- Design allows minimal intrusion into the back box
- Horn rated at 88+ dbA at 16 volts
- Rotary switch for horn tone and three volume selections
- Outdoor products UL listed to UL 1638 (strobe) and UL 464 (horn) outdoor requirements
- Outdoor products NEMA 4X rated
- Compatible with MDL sync module

The SpectrAlert Advance series of notification appliances is designed to simplify installations, with features such as plug in designs, instant feedback messages to ensure correct installation of individual devices, and 11 field-selectable candela settings for wall and ceiling strobes and horn/strobes.

When installing Advance products, first attach a universal mounting plate to a four-inch square, four-inch octagon or double-gang junction box. The two-wire mounting plate attaches to a single-gang junction box.

Next, connect the notification appliance circuit wiring to the SEMS terminals on the mounting plate.

Finally, attach the horn, strobe or horn/strobe to the mounting plate by inserting the product's tabs in the mounting plate's grooves. The device will rotate into position, locking the product's pins into the mounting plate's terminals. The device will temporarily hold in place with a catch until it is secured with a captured mounting screw.

The SpectrAlert Advance series includes outdoor notification appliances. Outdoor strobes and horn/strobes (two wire and four wire) are available for wall or ceiling. Outdoor horns are available for wall only. All System Sensor outdoor products are rated between minus 40 degrees Fahrenheit and 151 degrees Fahrenheit in wet or dry applications.

Agency Listings



7125-1652-186 (outdoor strobes)
7300-1652-187 (outdoor strobes)
7125-1652-128 (horn/strobes,
chime/strobes)
7125-1652-189 (horns, chimes)

SpectrAlert Advance Specifications

Architect/Engineer Specifications

General

SpectrAlert Advance horns, strobes and horn/strobes shall mount to a standard 4 x 4 x 1½-inch back box, 4-inch octagon back box or double-gang back box. Two-wire products shall also mount to a single-gang 2 x 4 x 1½-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync-Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync-Circuit Module, 12-volt rated notification appliance circuit outputs shall operate between nine and 17.5 volts; 24-volt rated notification appliance circuit outputs shall operate between 17 and 33 volts. Indoor SpectrAlert Advance products shall operate between 32 and 120 degrees Fahrenheit, from a regulated DC, or full-wave rectified, unfiltered power supply. Strobes and horn/strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185.

Strobe

The strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Horn/Strobe Combination

The horn/strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and UL 464 and shall be approved for fire protective service. The horn/strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The horn shall have three audibility options and an option to switch between a temporal three-pattern and a non-temporal (continuous) pattern. These options are set by a multiple position switch. On four-wire products, the strobe shall be powered independently of the sounder. The horn on horn/strobe models shall operate on a coded or non-coded power supply.

Outdoor Products

SpectrAlert Advance outdoor horns, strobes and horn/strobes shall be listed for outdoor use by UL and shall operate between minus 40 degrees and 151 degrees Fahrenheit. The products shall be listed for use with a System Sensor outdoor/weatherproof back box with half inch and three-fourths inch conduit entries.

Synchronization Module

The module shall be a System Sensor Sync-Circuit model MDL listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn/strobe models over a single pair of wires. The module shall mount to a 4½ x 4½ x 2½-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

Physical/Electrical Specifications

Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
K Series Operating Temperature	-40°F to 151°F (-40°C to 66°C)
Humidity Range	10 to 93% non-condensing (indoor products)
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12DC/FWR or regulated 24DC/FWR ¹
Operating Voltage Range ²	8 to 17.5 V (12V nominal) or 16 to 33 V (24 nominal)
Input terminal wire gauge	12 to 18 AWG
Ceiling mount dimensions (including lens)	6.8" diameter x 2.5" high (173 mm diameter x 64 mm high)
Wall mount dimensions (including lens)	5.6 L x 4.7 W x 2.5 D (142 mm L x 119 mm W x 64 mm D)
Horn dimensions	5.6 L x 4.7 W x 1.3 D (142 mm L x 119 mm W x 33 mm D)
Wall-mount back box skirt dimensions (BBS-2, BBSW-2)	5.9 L x 5.0 W x 2.2 D (151 mm L x 128 mm W x 56 mm D)
Ceiling-mount back box skirt dimensions (BBSC-2, BBSCW-2)	7.1" diameter x 2.25" high (180 mm diameter x 57 mm high)
Wall-mount weatherproof back box dimensions (SA-WBB)	5.7 L x 5.1 W x 2.0 D (145 mm L x 130 mm W x 51 mm D)
Ceiling-mount weatherproof back box dimensions (SA-WBBC)	7.1" diameter x 2.0" high (180 mm diameter x 51 mm high)
Wall-mount trim ring dimensions (TR-HS, TRW-HS)	5.7 L x 4.812 W x 0.35 D (146 mm L x 122 mm W x 9 D mm)
Ceiling-mount trim ring dimensions (TRC-HS, TRCW-HS)	6.9" diameter x 0.35 high (176 mm diameter x 9 mm high)

Notes:

1. Full Wave Rectified (FWR) voltage is a non-regulated, time varying power source that is used on some power supply and panel outputs.
2. P, S, PC, and SC products will operate at 12 V nominal only for 15 and 15/75 cd.

UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)

	Candela	8-17.5 Volts		16-33 Volts	
		DC	FWR	DC	FWR
Standard	15°	123	128	66	71
Candela Range	15/75°	142	148	77	81
	30°	NA	NA	94	96
	75°	NA	NA	158	153
	95°	NA	NA	181	176
	110	NA	NA	202	195
	115	NA	NA	210	205
High	135	NA	NA	228	207
	150	NA	NA	246	220
	177	NA	NA	281	251
	185	NA	NA	286	258

UL Max. Horn Current Draw (mA RMS)

Sound Pattern	dB	8-17.5 Volts		16-33 Volts	
		DC	FWR	DC	FWR
Temporal	High	57	55	69	75
Temporal	Medium	44	49	58	69
Temporal	Low	38	44	44	48
Non-temporal	High	57	56	69	75
Non-temporal	Medium	42	50	60	69
Non-temporal	Low	41	44	50	50
Coded	High	57	55	69	75
Coded	Medium	44	51	56	69
Coded	Low	40	46	52	50

UL Max. Current Draw (mA RMS), 2-wire Horn/Strobe, Standard Candela Range (15-115 cd)

	8-17.5 Volts		16-33 Volts						
	15	15/75	15	15/75					
DC Input	137	147	79	90	107	176	194	212	218
Temporal High	132	144	69	80	97	157	182	201	210
Temporal Medium	132	143	66	77	93	154	179	198	207
Temporal Low	141	152	91	100	116	176	201	221	229
Non-temporal High	133	145	75	85	102	163	187	207	216
Non-temporal Medium	131	144	68	79	96	156	182	201	210
Non-temporal Low									
FWR Input	136	155	88	97	112	168	190	210	218
Temporal High	129	152	78	88	103	160	184	202	206
Temporal Medium	129	151	76	86	101	160	184	194	201
Temporal Low	142	161	103	112	126	181	203	221	229
Non-temporal High	134	155	85	95	110	166	189	208	216
Non-temporal Medium	132	154	80	90	105	161	184	202	211
Non-temporal Low									

UL Max. Current Draw (mA RMS), 2-wire Horn/Strobe, High Candela Range (135-185 cd)

	16-33 Volts					16-33 Volts			
	135	150	177	185		135	150	177	185
DC Input	245	259	290	297	FWR Input	215	231	258	265
Temporal High	235	253	288	297	Temporal High	209	224	250	258
Temporal Medium	232	251	282	292	Temporal Medium	207	221	248	256
Temporal Low	255	270	303	309	Temporal Low	233	248	275	281
Non-temporal High	242	259	293	299	Non-temporal High	219	232	262	267
Non-temporal Medium	238	254	291	295	Non-temporal Medium	214	229	256	262
Non-temporal Low									

Candela Derating

For K series products used at low temperatures, listed candela ratings must be reduced in accordance with this table.

Strobe Output (cd)	
Listed Candela	Candela rating at -40°F
15	Do not use below 32°F
15/75	
30	
75	
95	44
110	70
115	110
135	115
150	135
177	150
185	177

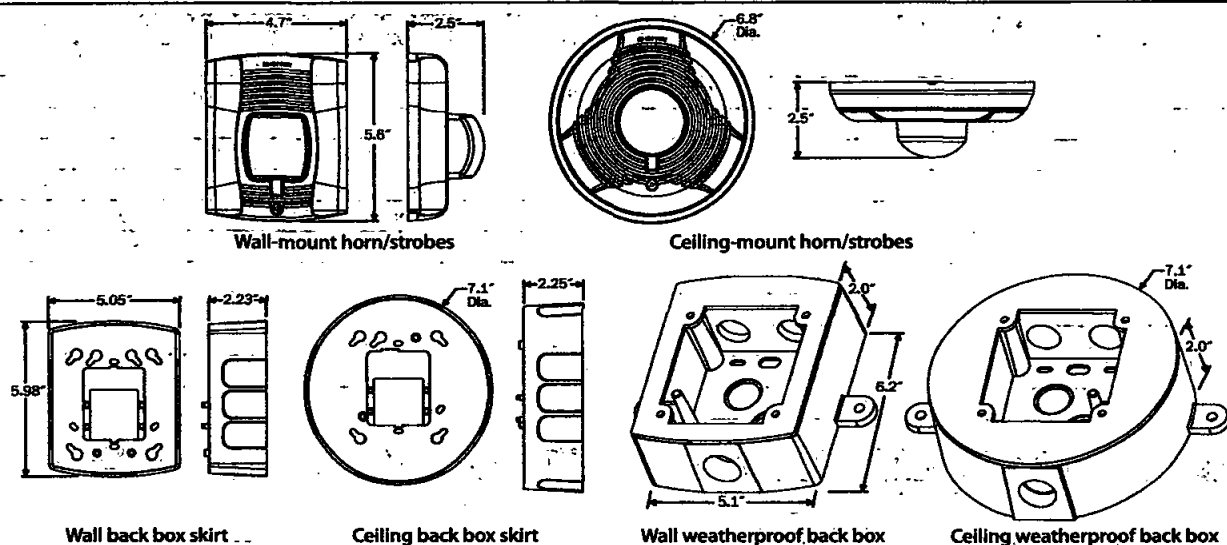
Horn Tones and Sound Output Data

Horn and Horn/Strobe Output (dBA)

Switch Position	Sound Pattern	dB	8-17.5 Volts		16-33 Volts		24 Volt Nominal			
			DC	FWR	DC	FWR	Reverberant		Anechoic	
1	Temporal	High	78	78	84	84	88	88	99	98
2	Temporal	Medium	74	74	80	80	86	86	96	96
3	Temporal	Low	71	73	76	76	83	80	94	89
4	Non-temporal	High	82	82	88	88	93	92	100	100
5	Non-temporal	Medium	78	78	85	85	90	90	98	98
6	Non-temporal	Low	75	75	81	81	88	84	96	92
7 ¹	Coded	High	82	82	88	88	93	92	101	101
8 ¹	Coded	Medium	78	78	85	85	90	90	97	98
9 ¹	Coded	Low	75	75	81	81	88	85	96	92

¹Settings 7, 8, and 9 are not available on 2-wire horn/strobe.

SpectrAlert Advance Dimensions



SpectrAlert Advance Ordering Information

Model	Description
Wall Horn/Strobes	
P2R*†	2-wire Horn/Strobe, Standard cd, Red
P2RH*	2-wire Horn/Strobe, High cd, Red
P2RK**	2-wire Horn/Strobe, Standard cd, Red, Outdoor
P2RHK*	2-wire Horn/Strobe, High cd, Red, Outdoor
P2W*	2-wire Horn/Strobe, Standard cd, White
P2WH*	2-wire Horn/Strobe, High cd, White
P4R*	4-wire Horn/Strobe, Standard cd, Red
P4RH*	4-wire Horn/Strobe, High cd, Red
P4RK*	4-wire Horn/Strobe, Standard cd, Red, Outdoor
P4RHK*	4-wire Horn/Strobe, High cd, Red, Outdoor
P4W*	4-wire Horn/Strobe, Standard cd, White
P4WH*	4-wire Horn/Strobe, High cd, White
Wall Strobes	
SR*†	Strobe, Standard cd, Red
SRH*†	Strobe, High cd, Red
SRK*	Strobe, Standard cd, Red, Outdoor
SRHK*	Strobe, High cd, Red, Outdoor
SW*	Strobe, Standard cd, White
SWH*	Strobe, High cd, White
Ceiling Horn/Strobes	
PC2R*‡	2-wire Horn/Strobe, Standard cd, Red
PC2RH*	2-wire Horn/Strobe, High cd, Red
PC2RK*	2-wire Horn/Strobe, Standard cd, Red, Outdoor
PC2RHK*	2-wire Horn/Strobe, High cd, Red, Outdoor
PC2W*†	2-wire Horn/Strobe, Standard cd, White
PC2WH*†	2-wire Horn/Strobe, High cd, White
PC4R	4-wire Horn/Strobe, Standard cd, Red
PC4RH	4-wire Horn/Strobe, High cd, Red
PC4RK	4-wire Horn/Strobe, Standard cd, Red, Outdoor
PC4RHK*	4-wire Horn/Strobe, High cd, Red, Outdoor

Model	Description
Ceiling Horn/Strobes (cont'd.)	
PC4W	4-wire Horn/Strobe, Standard cd, White
PC4WH	4-wire Horn/Strobe, High cd, White
Ceiling Strobes	
SCR*	Strobe, Standard cd, Red
SCRH*	Strobe, High cd, Red
SCRK*	Strobe, Standard cd, Red, Outdoor
SCRHK*	Strobe, High cd, Red, Outdoor
SCW*†	Strobe, Standard cd, White
SCWH*†	Strobe, High cd, White
Horns	
HR	Horn, Red
HRK*	Horn, Red, Outdoor
HW	Horn, White
Accessories	
BBS-2	Back Box Skirt, Wall, Red
BBSW-2	Back Box Skirt, Wall, White
BBSC-2	Back Box Skirt, Ceiling, Red
BBSCW-2	Back Box Skirt, Ceiling, White
TR-HS	Trim Ring, Wall, Red
TRW-HS	Trim Ring, Wall, White
TRC-HS	Trim Ring, Ceiling, Red
TRCW-HS	Trim Ring, Ceiling, White

Notes:

* Add "P" to model number for plain housing (no "FIRE" marking on cover), e.g., P2R-P.

† Add "SP" to model number for "FUEGO" marking on cover, e.g., P2R-SP.

‡ "Standard cd," refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings. "High cd," refers to strobes that include 135, 150, 177, and 185 candela settings.

All outdoor units ending in "K" include a weatherproof back box.

‡ Add "R" to model number for weatherproof replacement device (no back box included).



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A05-0395-005 - 8/08 - #2018



July 20, 2004

DN-6927 • E-30

FCPS-24S6 and FCPS-24S8**6-Amp and 8-Amp
24-Volt Remote Power Supplies**

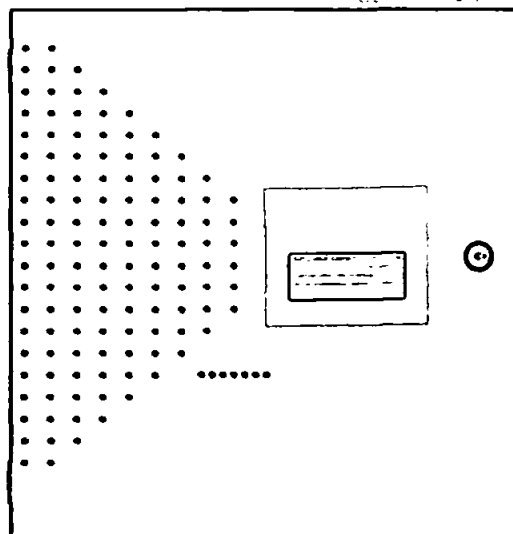
Section: Power Supplies

GENERAL

The FCPS-24S6 (6-amp) and FCPS-24S8 (8-amp) are compact, cost-effective remote power supplies with battery charger. The FCPS-24S6/24S8 may be connected to any 12- or 24-volt Fire Alarm Control Panel (FACP) or may be used as a stand-alone supply. Primary applications include Notification Appliance (bell) Circuit (NAC) expansion (to support ADA requirements and NAC synchronization) or auxiliary power to support 24-volt system accessories. The FCPS-24S6/24S8 provides *regulated and filtered* 24 VDC power to four notification appliance circuits configured as either four Class B (Style Y) or Class A (Style Z, with ZNAC-4 option module). Alternately, the four outputs may be configured as all non-resettable, all resettable, or two non-resettable and two resettable. The FCPS-24S6/24S8 also contains a battery charger capable of charging up to 18 AH batteries.

FEATURES

- UL-Listed NAC synchronization using System Sensor, Wheelock, or Gentex "Commander" appliances.
- Cascadable for up to ten power supplies (four for Gentex) with strobe timing maintained.
- Operates as a "sync follower" or as a "sync generator" (default). See note on page 2.
- Contains two fully-isolated input/control circuits — triggered from FACP NAC (NAC expander mode) or jumpered permanently "ON" (stand-alone mode).
- Four Class B (Style Y) or four Class A (Style Z, with ZNAC-4 module) NACs.
- 6-amp (FCPS-24S6) or 8-amp (FCPS-24S8) full load output, with 3 amps maximum/circuit, in NAC expander mode (UL 864).
- 4-amp (FCPS-24S6) or 6-amp (FCPS-24S8) continuous output in stand-alone mode (UL 1481).
- Compatible with coded inputs; signals passed through.
- Optional power-supervision relay (A77-716B).
- In stand-alone mode, output power circuits may be configured as: resettable (reset line from FACP required), non-resettable, or a mix of two and two.
- Fully *regulated and filtered* power output — optimal for powering four-wire smoke detectors, annunciators, and other system peripherals requiring regulated/filtered power.
- Power-limiting technology meets UL power-limiting requirements.
- Form-C normally-closed trouble relay.
- Fully supervised power supply, battery, and NACs.
- Selectable earth fault detection.
- AC trouble report selectable for immediate or 8-hour delay.
- Works with virtually any UL 864 fire alarm control which utilizes an industry-standard reverse-polarity notification circuit (including unfiltered and unregulated bell power).
- Requires input trigger voltage of 9.0 – 32 VDC.
- Self-contained in compact, locking cabinet — 15" (38.1 cm) high x 14.5" (36.83 cm) wide x 2.75" (6.985 cm) deep.
- Includes integral battery charger capable of charging up to 18 AH batteries. Cabinet capable of housing 7.0 AH batteries.

California
State Fire
Marshal
7315-0028:225**MEA**
299-02-E

- Battery charger may be disabled via DIP switch for applications requiring larger batteries.
- Fixed, clamp-type terminal blocks accommodate up to 12 AWG (3.1 mm²) wire.

STANDARDS and CODES

The FCPS-24S6/24S8 complies with the following standards:

- NFPA 72 National Fire Alarm Code.
- UL 864 Standard for Control Units for Fire Alarm Systems (NAC expander mode).
- UL 1481 Power Supplies for Fire Alarm Systems (stand-alone mode).

SPECIFICATIONS**Primary (AC) power:**

- FCPS-24S6/24S8: 120 VAC, 60 Hz, 3.2 A maximum.
- Wire size: minimum #14 AWG (2.0 mm²) with 600 V insulation.

Control input circuit:

- Trigger input voltage: 9 to 32 VDC.
- Trigger current: 2.0 mA (16 – 32 V). Per input: 1.0 mA (9 – 16 V).

Trouble contact rating: 5 amps at 24 VDC.

NOTIFIER® is a Honeywell company.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact NOTIFIER. Phone: (203) 484-7161 FAX: (203) 484-7118



12 Clintonville Road, Northford, Connecticut 06472

ISO 9001
CERTIFIED
REGISTERED & MONITORED
QUALITY SYSTEMS

Auxiliary power output: specific application power 500 mA maximum.

Output circuits:

- +24 VDC filtered, regulated.
- 3.0 amps maximum for any one circuit.
- Total continuous current for all outputs (stand-alone mode):
for FCPS-24S6: 4.0 amps maximum; for FCPS-24S8: 6.0 amps maximum.
- Total short-term current for all outputs (NAC expander mode):
for FCPS-24S6: 6.0 amps maximum; for FCPS-24S8: 8.0 amps maximum.

Secondary power (battery) charging circuit:

- Supports lead-acid batteries only.
- Float-charge voltage: 27.6 VDC.
- Maximum charge current: 1.5 amps
- Maximum battery capacity: 18 AH.

APPLICATIONS

Example 1: Expand notification appliance power an additional 6.0 amps (FCPS-24S6) or 8.0 amps (FCPS-24S8). Use up to four Class B (Style Y) outputs or four Class A (Style Z) outputs (using ZNAC-4). For example, the FACP notification appliance circuits will activate the FCPS when reverse-polarity activation occurs. Trouble conditions on the FCPS are sensed by the FACP through the notification appliance circuit.

Example 2: Use the FCPS to expand auxiliary regulated 24-volt system power up to 4.0 amps (FCPS-24S6) or up to 6.0 amps (FCPS-24S8). Both resettable and non-resettable power options are available. Resettable outputs are created by connecting the resettable output from the FACP to one or both of the FCPS inputs.

Example 3: Use addressable control modules to activate the FCPS instead of activating it through the FACP notification appliance circuits. This typically allows for mounting the FCPS at greater distances* away from the FACP while expanding system architecture in various applications.

For example, an addressable control module is used to activate the FCPS, and an addressable monitor module is used to sense FCPS trouble conditions. Local auxiliary power output from the FCPS provides power to the addressable control module.

*Addressable FACP's are capable of locating control and monitor modules at distances of up to 10,000 feet (3048 meters).

AGENCY LISTINGS AND APPROVALS

See the first page of this data sheet for listing agencies and file numbers. These listings and approvals apply to the FCPS-24S6 and the FCPS-24S8. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

SYNC FOLLOWER/GENERATOR NOTE

In some installations, it is necessary to synchronize the flash timing of all strobes in the system for ADA compliance. Strobes accomplish this by monitoring very short timing pulses on the NAC power which are created by the FACP. When installed at the end of a NAC wire run, the FCPS-24S6/-24S8 can track (i.e., "follow") the strobe synchronization timing pulses on the existing NAC wire run. This maintains the overall system flash timing of the additional strobes attached to the FCPS.

When the FCPS-24S6/-24S8 is configured (via DIP switch settings) as a "sync follower," the FCPS's NAC outputs track the strobe synchronization pulses present at the FCPS's sync input terminal. The pulses originate from an upstream FACP or other power supply.

When the FCPS-24S6/-24S8 is configured (via DIP switch settings) as a "sync generator," the FCPS's sync input terminals are not used. Rather, the FCPS is the originator of the strobe synchronization pulses on the FCPS's NAC outputs. In "sync generator" mode, the sync type (System Sensor, Wheelock, or Gentex) is selectable via DIP switch settings.

PRODUCT LINE INFORMATION

FCPS-24S6: 6.0 amp, 120 VAC remote charger power supply. Includes main printed circuit board, transformers, enclosure (15" [38.1 cm] high x 14.5" [36.83 cm] wide x 2.75" [6.985 cm] deep), and installation instructions.

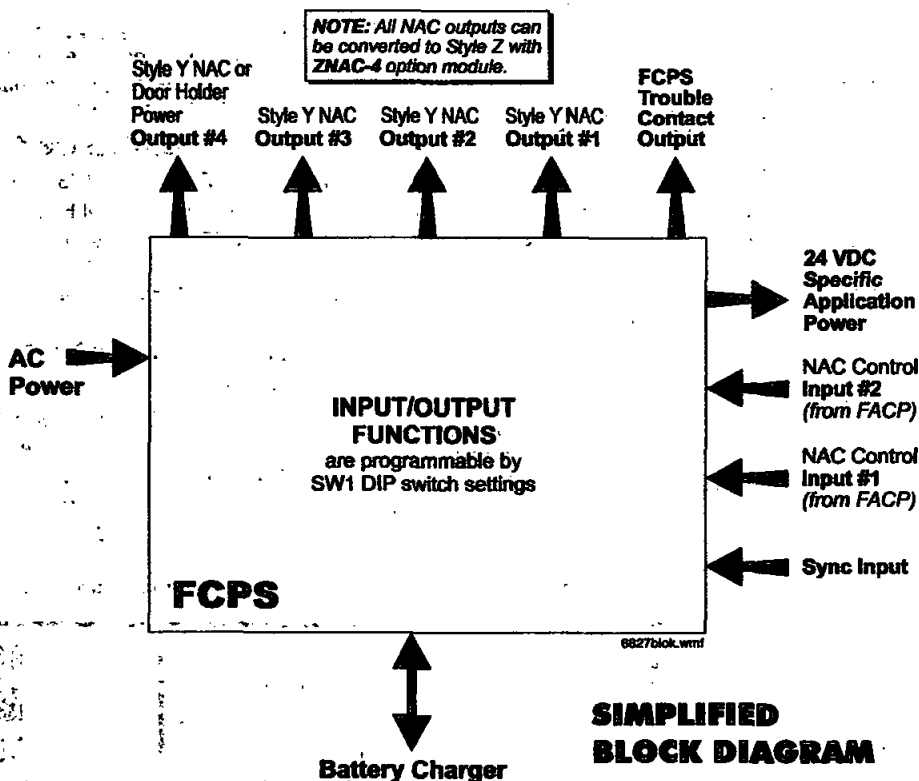
FCPS-24S8: 8.0 amp, 120 VAC remote charger power supply. Includes main printed circuit board, transformers, enclosure (15" [38.1 cm] high x 14.5" [36.83 cm] wide x 2.75" [6.985 cm] deep), and installation instructions.

ZNAC-4: Class A (Style Z) NAC option module.

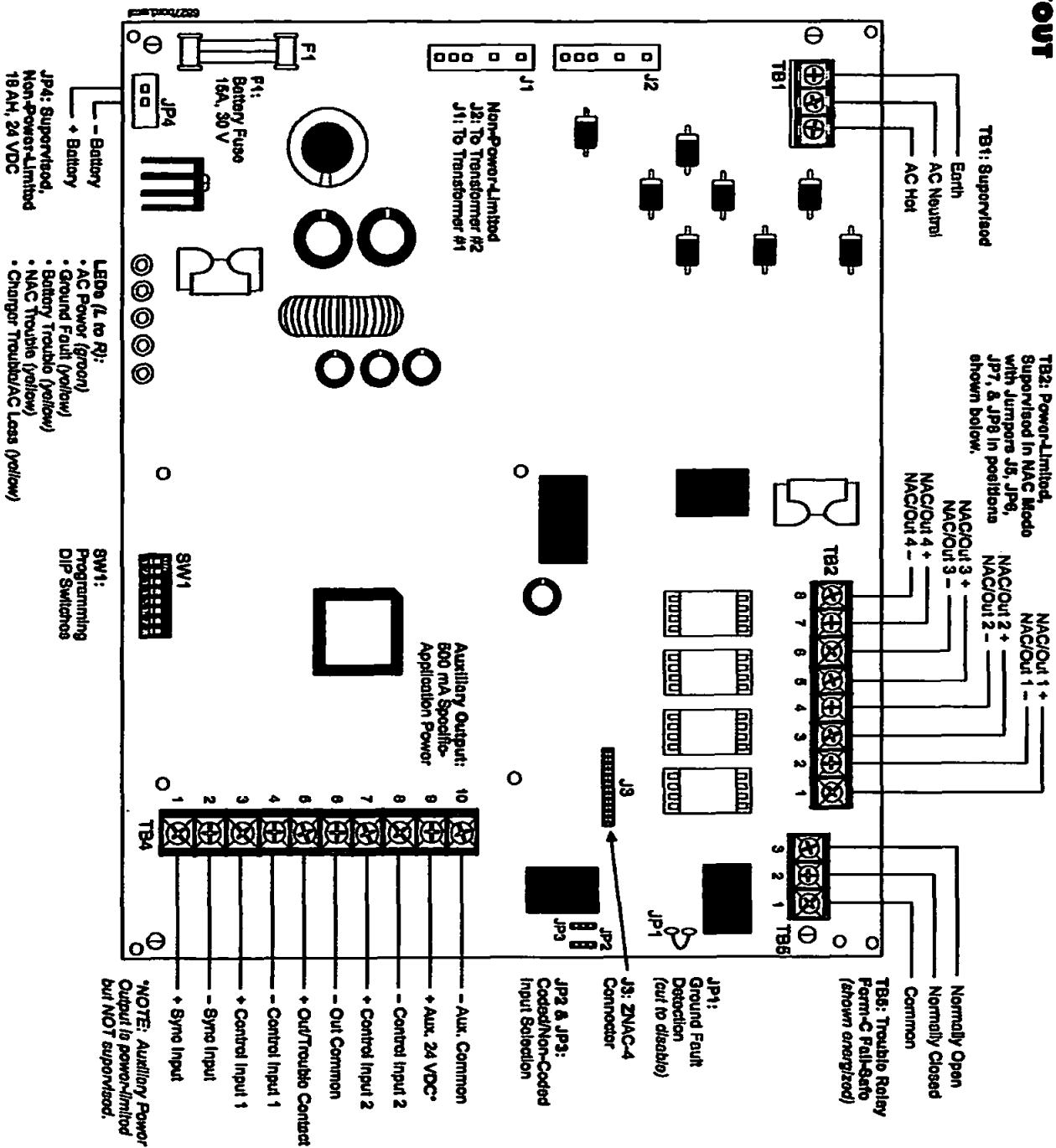
A77-716B: 12/24 VDC end-of-line relay for monitoring four-wire smoke detector power.

BAT-1270: Battery, 12 volt, 7.0 AH (two required, see BAT Series data sheet DN-6933).

PS-1270: Battery, 12 volt, 7.0 AH (two required, see PS Series data sheet DN-1109).



BOARD LAYOUT





June 15, 2005

DN-7001 • A1-380

NOT-BG12LX Addressable Manual Pull Station for FireWarden-100

Section: Addressable

Patented, U.S. Patent No. D428,351; 6,380,846
U.S. Patent Pending: 09/686,286

GENERAL

The NOTIFIER NOT-BG12LX is a state-of-the-art, dual-action (i.e., requires two motions to activate the station) pull station that includes an addressable interface (mounted inside) for NOTIFIER's addressable FireWarden-100 fire alarm control panel. Because the NOT-BG12LX is addressable, the control panel can display the exact location of the activated manual pull station. This leads fire service personnel quickly to the location of the alarm.

FEATURES

- Aesthetically pleasing, highly visible, dual-action design.
- Meets ADA 5 lb. maximum pull force.
- Easily operated (dual-action).
- Attractive shape and textured finish.
- Mounts, semi-flush, to a standard single-gang (2.125" [5.398 cm] minimum depth), double-gang, or 4.0" (10.16 cm) square electrical box.
- When the handle latches in down position, the word "ACTIVATED" appears at the top of the handle in bright yellow to clearly indicate the station has been operated.
- Key/lock reset; needs only a 1/4-turn to lock/unlock.
- Includes Braille text on station handle.
- Captive screw terminals wire-ready for easy connection to SLC loop (accepts up to 12 AWG/3.1 mm² wire).
- Optional trim ring (BG-TR).
- Meets UL 38, Standard for Manually Actuated Signaling Boxes.
- Maintenance personnel can open station (for inspection and testing) without causing an alarm condition.
- Built-in bicolor LED, which is visible through the handle of the station, flashes red in normal operation and latches on steady red when in alarm.

ENGINEERING SPECIFICATIONS

Manual Fire Alarm Stations shall be non-code, with a key-operated reset lock in order that they may be tested, and so designed that after actual Emergency Operation, they cannot be restored to normal except by use of a key. An operated station shall automatically condition itself so as to be visually detected as activated. Manual stations shall be constructed of red-colored LEXAN® (or polycarbonate equivalent) with clearly visible operating instructions provided on the cover. The word FIRE shall appear on the front of the stations in white letters, 1.00 inches (2.54 cm) or larger. Stations shall be suitable for surface mounting on matching backbox SB-10 or SB-I/O; or semi-flush mounting on a standard single-gang, double-gang, or 4.0" (10.16

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MEA
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*The NOT-BG12LX
Addressable Manual Pull Station*

cm) square electrical box, and shall be installed within the limits defined by the Americans with Disabilities Act (ADA) or per national/local requirements. Manual Stations shall be Underwriters Laboratories listed.

Manual stations shall connect with two wires to one of the control panel SLC loops. The manual station shall, on command from the control panel, send data to the panel representing the state of the manual switch. Manual stations shall provide address setting by use of rotary decimal switches.

ELECTRICAL SPECIFICATIONS

Normal operating voltage: 24 VDC.

Maximum SLC loop voltage: 28.0 VDC.

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12 Clintonville Road, Northford, Connecticut 06472



Maximum SLC loop current: 230 μ A.

INSTALLATION

The NOT-BG12LX can be semi-flush mounted into a single-gang, double-gang, or standard 4.0" (10.16 cm) square electrical outlet box, or surface mounted to the Model SB-10 or SB-I/O surface backbox. If the NOT-BG12LX is semi-flush mounted, then the optional trim ring (BG-TR) may be used. The BG-TR is usually needed for semi-flush mounting with 4.0" (10.16 cm) or double-gang boxes (not with single-gang boxes).

CONSTRUCTION

Shell, door, and handle are molded of durable LEXAN® (or polycarbonate equivalent) with a textured finish.

OPERATION

Pushing in, then pulling down on the handle causes it to latch in the down/activated position. Once latched, the word "ACTIVATED" (in bright yellow) appears at the top of the handle, while a portion of the handle protrudes from the bottom of the station. To reset the station, simply unlock the station with the key and pull the door open. This action resets the handle; closing the door automatically resets the switch.

Manual stations connect with two wires to one of the control panel SLC loops. Each manual station, on command from the control panel, sends data to the panel representing the state of the pull station switch. Two rotary decimal switches allow address settings (01-99).

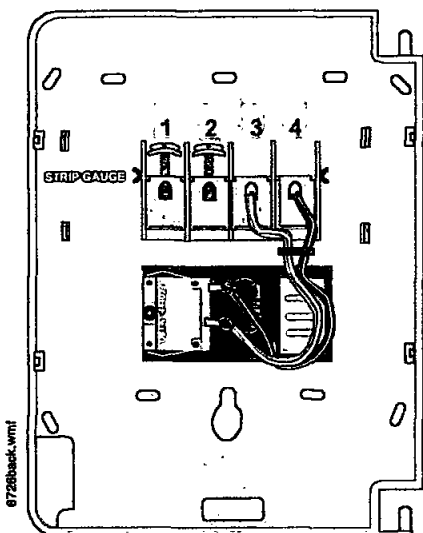
PRODUCT LINE INFORMATION

NOT-BG12LX Dual-action addressable pull station. Includes key lock/reset feature.

SB-10 Surface backbox.

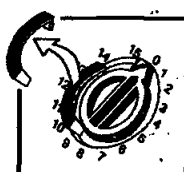
SB-I/O Surface indoor/outdoor backbox.

BG-TR Optional trim ring.

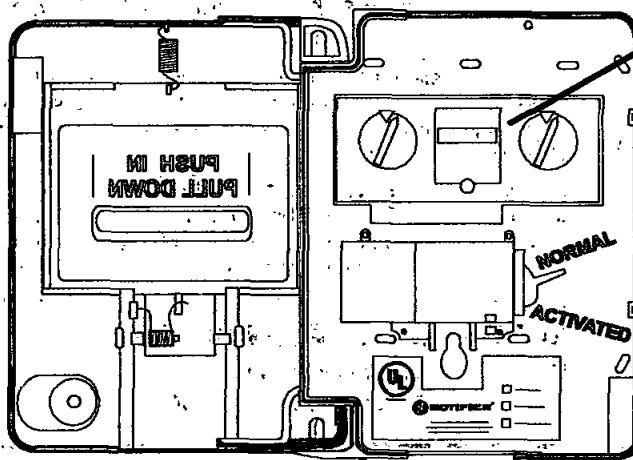
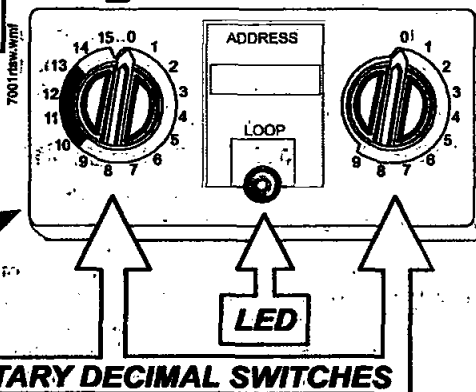


TERMINAL CONNECTIONS

- 1 SLC (-)
- 2 SLC (+)



Detail of BREAKAWAY TAB*



Cover open to show easy access to miniature monitor module, rotary switch, and UL label.



June 15, 2005

DN-6999 - A1-350

Addressable Monitor Modules for the FireWarden-100:

NMM-100, NMM-100P, NZM-100, NDM-100

Section: Addressable

GENERAL

Four different monitor modules are available for NOTIFIER's FireWarden-100 intelligent fire alarm control panels to suit a variety of applications. Monitor modules are used to supervise a circuit of dry-contact input devices, such as conventional heat detectors and pull stations, or monitor and power a circuit of two-wire smoke detectors (NZM-100).

NMM-100 — The NMM-100 Monitor Module is a standard-sized module (typically mounts to a 4.0" [10.16 cm] square box) that supervises either a Class A (Style D) or Class B (Style B) circuit of dry-contact input devices.

NMM-100P — The NMM-100P is a Miniature Monitor Module (a mere 1.3" (3.302 cm) H x 2.75" (6.985 cm) W x 0.5" (1.270 cm) D) used to supervise a Class B (Style B) circuit. Its compact design allows the NMM-100P to be mounted in a single-gang box behind the device it is monitoring.

NZM-100 — The NZM-100 Interface Module is a standard-sized module used to monitor and supervise compatible two-wire, 24 volt, smoke detectors on a Class A (Style D) or Class B (Style B) circuit.

NDM-100 — The NDM-100 Dual Monitor Module is a standard-sized module (typically mounts to a 4.0" [10.16 cm] square box) that supervises two Class B (Style B) circuits of dry-contact input devices.

NMM-100 MONITOR MODULE

- Built-in type identification automatically identifies this device as a monitor module to the control panel.
- Powered directly by two-wire SLC loop. No additional power required.
- High noise (EMF/RFI) immunity.
- SEMS screws with clamping plates for ease of wiring.
- Direct Decade 01 - 99 (FireWarden-100) entry of address.
- LED flashes red during normal operation and latches on steady to indicate alarm.

The NMM-100 Monitor Module is intended for use in intelligent, two-wire systems, where the individual address of each module is selected using the built-in rotary switches. It provides either a two-wire or four-wire Class A or Class B fault-tolerant Initiating Device Circuit (IDC) for normally-open-contact fire alarm and supervisory devices.

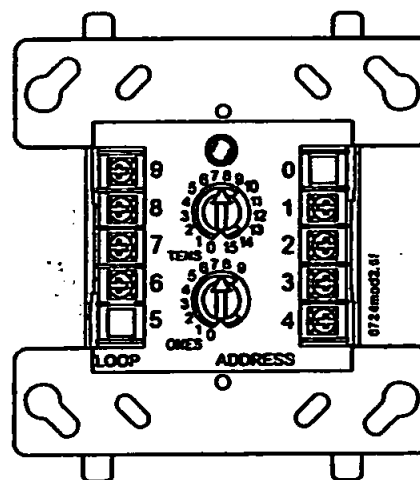
NMM-100 Applications — Use to monitor a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices, or other normally-open dry-contact alarm activation devices. May also be used to monitor normally-open supervisory devices with special supervisory indication at the control panel. Monitored circuit may be wired as an NFPA Style B (Class B) or Style D (Class D) Initiating Device Circuit. A 47K ohm End-of-Line Resistor (provided) terminates the Style B circuit. No resistor is re-



MEA
72-01-E Vol. II
(except NDM-100)



California
State Fire
Marshal
7300-0028:230
(except NDM-100)



NMM-100 and NZM-100

quired for supervision of the Style D circuit. Maximum IDC resistance is 1,500 ohms.

NMM-100 Operation — Each NMM-100 uses one of 99 (FireWarden-100) available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC). A flashing LED indicates that the module is in communication with the control panel. The LED latches steady on alarm (subject to current limitations on the loop).

NMM-100 Specifications

Nominal operating voltage: 15 to 32 VDC.
Maximum current draw: 5.1 mA (LED on).
Average operating current: 400 µA (LED flashing).
EOL resistance: 47K ohms.
Temperature range: 32°F to 120°F (0°C to 49°C).
Humidity range: 10% to 93% noncondensing.
Dimensions: 4.5" (11.43 cm) high x 4.0" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4.0" (10.16 cm) square x 2.125" (5.398 cm) deep box.

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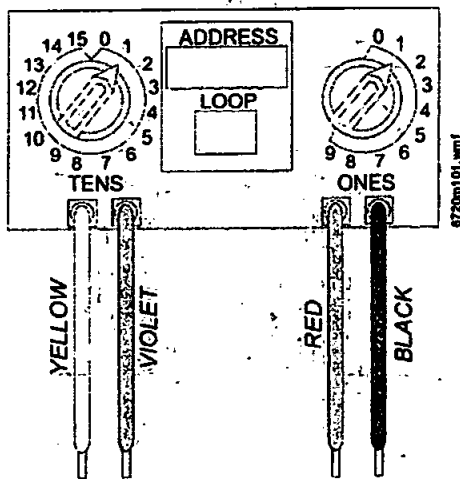
12 Clintonville Road, Northford, Connecticut 06472



NMM-100P MINI MONITOR MODULE

- Built-in type identification automatically identifies this device as a monitor module to the FireWarden-100.
- Powered directly by two-wire SLC Loop. No additional power required.
- High noise (EMF/RFI) immunity.
- Tinned, stripped leads for ease of wiring.
- Direct-dial entry of address (01-99 for FireWarden-100).

The NMM-100P Mini Monitor Module can be installed in a single-gang junction directly behind the monitored unit. Its small size and light weight allow it to be installed without rigid mounting. The NMM-100P is intended for use in intelligent, two-wire systems where the individual address of each module is selected using rotary switches. It provides a two-wire initiating device circuit for normally-open-contact fire alarm and security devices.



NMM-100P Applications — Use to monitor a single device or a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices, or other normally-open dry-contact devices. May also be used to monitor normally-open supervisory devices with special supervisory indication at the control panel. Monitored circuit/device is wired as an NFPA Style B (Class B) Initiating Device Circuit. A 47K ohm End-of-Line Resistor (provided) terminates the circuit.

NMM-100P Operation — Each NMM-100P uses one of 99 (FireWarden-100) available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC).

NMM-100P Specifications

Nominal operating voltage: 15 to 32 VDC.
Average operating current: 375 μ A maximum.
EOL resistance: 47K ohms.
Temperature range: 32°F to 120°F (0°C to 49°C).
Humidity range: 10% to 93% noncondensing.
Dimensions: 1.3" (3.302 cm) high x 2.75" (6.985 cm) wide x 0.5" (1.270 cm) deep.
Wire length: 6.0" (15.24 cm) minimum.

NZM-100 INTERFACE MODULE

- Supports compatible two-wire smoke detectors.
- Supervises IDC wiring and connection of external power source (resettable).
- High noise (EMF/RFI) immunity.
- SEMS screws with clamping plates for ease of wiring.
- Direct-dial entry of address (01-99 for FireWarden-100).
- LED flashes during normal operation.
- LED latches steady to indicate alarm on command from control panel.

The NZM-100 Interface Module is intended for use in intelligent, addressable systems, where the individual address of each module is selected using built-in rotary switches. This module allows intelligent panels to interface and monitor two-wire conventional smoke detectors. It transmits the status (normal, open, or alarm) of one full zone of conventional detectors back to the control panel. All two-wire detectors being monitored must be UL-compatible with the module.

NZM-100 Applications — Use the NZM-100 to monitor a zone of two-wire smoke detectors. The monitored circuit may be wired as an NFPA Style B (Class B) or Style D (Class A) Initiating Device Circuit. A 3.9 K ohm End-of-Line Resistor (provided) terminates the end of the Style B or D (class B or A) circuit (maximum IDC loop resistance is 25 ohms). Install ELR across terminals 8 and 9 for Style D application.

NZM-100 Operation — Each NZM-100 uses one of 99 (FireWarden-100) available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC). A flashing LED indicates that the module is in communication with the control panel. The LED latches steady on alarm (subject to current limitations on the loop).

NZM-100 Specifications

Nominal operating voltage: 15 to 32 VDC.
Maximum current draw: 5.1 mA (LED on).
Average operating current: 270 μ A (LED flashing).
EOL resistance: 3.9K ohms.
External supply voltage (between Terminals T3 and T4):
DC voltage: 18 to 28 volts power limited. **Ripple voltage:** 0.1 VRMS maximum. **Current:** 90 mA per module maximum. Requires regulated, resettable 24 VDC power.
Temperature range: 32°F to 120°F (0°C to 49°C).
Humidity range: 10% to 93% noncondensing.
Dimensions: 4.5" (11.43 cm) high x 4.0" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4.0" (10.16 cm) square x 2.125" (5.398 cm) deep box.

NDM-100 DUAL MONITOR MODULE

- Built-in type identification automatically identifies this device as two monitor modules to the control panel.
- Powered directly by the two-wire SLC loop. No additional power required.
- High noise (EMF/RFI) immunity.
- SEMS screws with clamping plates for ease of wiring.
- Direct-dial entry of address 01 – 99 (FireWarden-100) uses two addresses per module.
- LED flashes red during normal operation and latches on steady red to indicate alarm.

The NDM-100 Dual Monitor Module is intended for use in intelligent, two-wire systems, where the individual address of each module is selected using the built-in rotary switches. It provides two independent two-wire fault-tolerant Initiating Device Circuits (IDCs) at two separate, consecutive addresses. It is capable of monitoring normally open-contact fire alarm and supervisory devices, or either normally open or normally closed devices for non-fire applications.

NDM-100 Applications — Use to monitor a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices, or other normally-open dry-contact alarm activation devices. May also be used to monitor normally-open supervisory devices with special supervisory indication at the control panel. Monitored circuit may be wired as an NFPA Style B (Class B) Initiating Device Circuit. The 47K ohm End-of-Line Resistors (provided) terminate the Style B circuit. Maximum IDC resistance is 1,500 ohms.

NDM-100 Operation — Each NDM-100 uses two of 99 (FireWarden-100) available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC). A flashing LED indicates that the module is in communication with the control panel. The LED latches steady on alarm (subject to current limitations on the loop).

NDM-100 Specifications

Nominal operating voltage: 15 to 32 VDC.

Maximum current draw: 5.1 mA (LED on).

Average operating current: 750 μ A (LED flashing).

EOL resistance: 47K ohms.

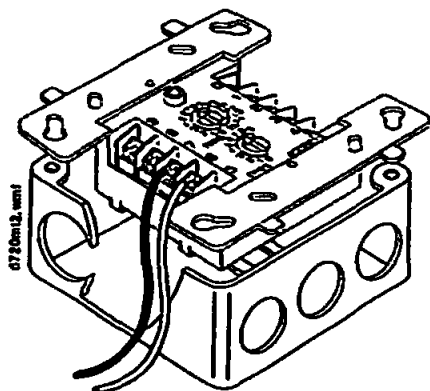
Maximum IDC wire resistance: 1,500 ohms.

Temperature range: 32°F to 120°F (0°C to 49°C).

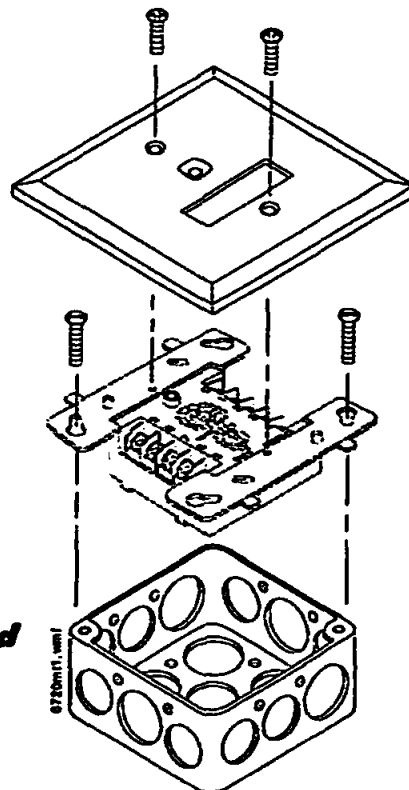
Humidity range: 10% to 93% noncondensing.

Dimensions: 4.5" (11.43 cm) high x 4.0" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4.0" (10.16 cm) square x 2.125" (5.398 cm) deep box.

Accessories: SMB500 electrical box.



MOUNTING DIAGRAMS for standard-sized modules



INSTALLATION

NMM-100, NZM-100, and NDM-100 modules mount directly to a standard 4.0" (10.16 cm) square, 2.125" (5.398 cm) deep, electrical box. They may also be mounted to the SMB500 surface-mount box. Mounting hardware and installation instructions are provided with each module. All wiring must conform to applicable local codes, ordinances, and regulations. These modules are intended for power-limited wiring only.

The NMM-100P module is intended to be wired and mounted without rigid connections inside a standard electrical box. All wiring must conform to applicable local codes, ordinances and regulations.

ARCHITECTS'/ENGINEERS' SPECIFICATIONS

Specifications of these and all NOTIFIER products are available from NOTIFIER.

PRODUCT LINE INFORMATION

NMM-100 Monitor module.

NMM-100P Mini monitor module.

NZM-100 Two-wire detector monitor module.

NDM-100 Dual monitor module.

SMB500 Optional surface-mount backbox.