



Township Archives
Township of Brick, NJ
401 Chambers Bridge Rd, Brick, NJ 08723

This File Contains Personal Financial and
Identifiable Information of Township Employee(s).

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pursuant to Court Order.***

This File is Exempt from release under the Open Public Records Act (OPRA) (Public Law 2001, CHAPTER 404 (N.J.S.A. 47:1A-1 et seq.)) as set forth in Executive Order Number 26 issued by Governor James E. McGreevey, August 13, 2002 which exempts the following types of information from release under the OPRA Law:

- Information in a personal income or other tax return
- Information describing a natural person's finances, income, assets, liabilities, net worth, bank balances, financial history or activities, or creditworthiness, except as otherwise required by law to be disclosed.


Bryan J. Dickerson, CA, CMR
Township Archivist

BOOK 701

LOT 7

QUALIFICATION CODE

ADDRESS (SITE)

744 NJ Highway 70W Bricktown

PERMIT NO.

21-200



CONSTRUCTION PERMIT APPLICATION

C 21-001549

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

I. IDENTIFICATION

1. Proposed Work Site at: 744 NJ Highway 70 W, Bricktown, NJ 08723

2. Name of Owner in Fee: Urban Edge Properties
Tel. (201) 571-3544 e-mail _____
Address 210 Route 4 Eat Paramus, NJ 07652
street municipality zip code

3. Ownership in Fee: Public _____ Private _____

4. Principal Contractor: Steadfast Development and Constructi Tel. (212) 861-6100
Address 315 East 91st Street, 5th Floor e-mail: cm@steadfastbuild.com
New York, NY 10128

License No. OR, if new home, Builder Reg. No. _____ Exp. Date _____
Home Improvement Contractor Registration No. or Exemption Reason _____
Federal Emp. ID No. 262710714 FAX: (212) 861-6111

5. Architect or Engineer O'Neil Langan Architects Contact Maria Jesselli
Address 15 West 37th Street, NYC, NY 10018 e-mail maria@olarch.com
Tel. (646) 460-8640 FAX: _____

6. Responsible Person in Charge once Work has Begun _____
Tel: _____ FAX: _____

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$ <u>10000</u>		
2. Electrical	\$ <u>2000</u>		<u>650</u>
3. Plumbing	\$ <u>4000</u>		
4. Fire Protection	\$ <u>11.60</u>	<u>175</u>	
5. Elevator Devices			<u>175</u>
6. Subtotal			
7. Less 20% for State Plan Review	\$		
8. Subtotal	\$		
9. State Permit Surcharge Fee	\$ <u>5000</u>	<u>300</u>	<u>260</u>
10. Subtotal	\$ <u>75</u>		
11. Cert. of Occupancy			
12. Other			
13. TOTAL	\$	<u>201</u>	<u>381</u>

VI. BUILDING/SITE CHARACTERISTICS

	(office use only)
1. Number of Stories	<u>10</u>
2. Height of Structure	ft. _____
3. Area — Largest Floor	sq. ft. _____
4. New Building Area	sq. ft. <u>150</u>
5. Volume of New Structure	cu. ft. _____
6. Max. Live Load	_____
7. Max. Occupancy load	_____
8. If Industrialized Building: State Approved _____ HUD _____	
9. Total Land Area Disturbed	sq. ft. <u>157</u>
10. Flood Hazard Zone	_____
11. Base Flood Elevation	ft. _____
12. Wetlands yes _____ no _____	

IIa. PROPOSED WORK

- ☐ Minor Work ☐ New Building ☐ Addition ☐ Demolition
- ☐ Repair ☐ Alteration ☐ Renovation ☒ Reconstruction
- ☐ Asbestos Abat. -Subch. 8 ☐ Lead Hazard Abatement ☐ Radon Remediation ☐ Annual Permit

IIb. SUBCODES

(Check all that apply)

- ☒ Building
- ☒ Electrical
- ☒ Plumbing
- ☒ Fire Protection
- ☐ Elevator

FOR OFFICE USE ONLY (Optional)

Est. Cost	Plans Rec'd by	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Rejection	Re-viewer
150,000			<u>07/14/21</u>		<u>REK</u>	<u>08/17/21</u>		<u>REK</u>
110,500				<u>5/18/21</u>	<u>REK</u>			
30,000			<u>6-9-21</u>		<u>REK</u>	<u>8/10/21</u>		<u>REK</u>
12,500			<u>6/16/21</u>		<u>REK</u>	<u>8/10/21</u>		<u>REK</u>
	<u>Eng</u>	<u>Exempt</u>	<u>9/20/21</u>		<u>REK</u>			

TOTAL COST \$303,000

III. PLAN REVIEW (optional)

DO YOU WANT:

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/Standpipes
8. ☐ Smoke Control Systems in Open Wells
9. ☐ Underground Storage Tanks
10. ☐ Swimming Pools, Spas and Hot Tubs
11. ☐ LPG Tanks
12. ☐ Fire Alarm

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL (primary use)

1. State Specific Use: _____
2. Use Group, Proposed: Select Group _____
3. Change in Use Group, Indicate Present: Select Group _____
4. No. of dwelling units: Total Units Income-restricted
- | | |
|----------------|--|
| Gained, Sale | |
| Gained, Rental | |
| Lost, Sale | |
| Lost, Rental | |

B. NON-RESIDENTIAL (primary use)

1. State Specific Use: _____
2. Use Group, Proposed: Select Group _____
3. Change in Use Group, Indicate Present: Select Group _____

C. MIXED USE -List secondary use(s):

- D. Construct. Classification: Present _____ Proposed _____

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(f)1.ix:

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, including such certification as the construction official may require, have been given or will be given prior to permit issuance.

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. 5:23-2.15(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, including such certification as the construction official may require, have been given or will be given prior to permit issuance.

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.

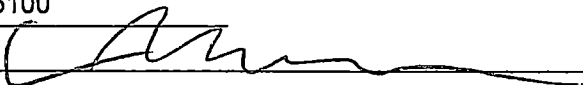
(X) Check if contractor.

Agent Name Carl Musacchia - Steadfast Development

Address 315 East 91st Street, 5th Floor

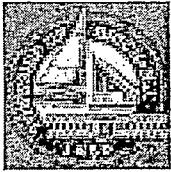
New York, NY 10128

Telephone (212) 861-6100

Signature 

- III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:23-2.15(b)4.

- IV. ☐ HOME ELEVATION: Include Home Elevation Contractor Certification as per N.J.S.A. 52:27D-123.16.



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723

Date Issued 01/20/2022
Control Number C-21-001549
Permit Number 21-2202
Permit Issue Date 08/20/2021
Certificate Number 21-2202

Certificate
Construction Code Division
(Certificate of Occupancy)

Identification

Work Site Location: 744 ROUTE 70 Brick Township, NJ Block: 701 Lot: 7 Qual: _____
Owner in Fee: BRICKTOWN VF LLC
Owner Address: 210 ROUTE 4 EAST PARAMUS NJ 07652
Telephone: (201) 571-3544
Contractor STEADFAST DEVELOPMENT & CONSTRUCTION
Address 315 EAST 91ST STREET 5TH FLOOR NEW YORK NY 10128
Telephone: (212) 861-6100 Fax: (212) 861-6111 Federal Emp. Number: _____
License Number or Builders Registration Number: _____

Home Warranty Number: _____ Type of Warranty Plan: ☐ State ☐ Private
Use Group: M Construction Classification: _____
Maximum Live Load: 0 Maximum Occupancy Load: 58
Description of Work/Use: TENANT FIT UP - - SEPHORA

Certificate Comments:

☒ **Certificate of Occupancy**

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☐ **Certificate of Approval**

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

☐ **Certificate of Continued Occupancy**

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ **Temporary Certificate of Compliance**

The following conditions must be met no later than _____ or the owner will be subject to fine or order to vacate:
This certificate has an expiration date of: _____
Conditions to be met:

☐ **Certificate of Clearance - Lead Abatement 5:17**

This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

- ☐ Total removal of lead-based paint hazards in scope of work
☐ Partial or limited time period (_____ years); see file

☐ **Certificate of Clearance - Asbestos Abatement**

This serves notice that based on written certification, asbestos abatement was performed to the following extent.

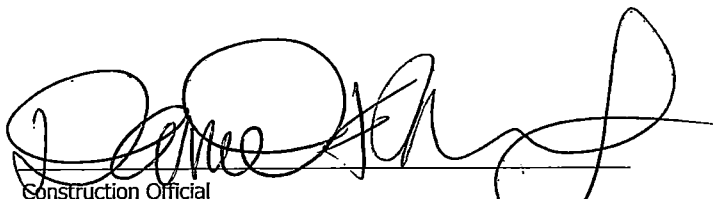
- ☐ Total removal of asbestos hazards in scope of work
☐ Partial or limited time period (_____ years); see file

☐ **Certificate of Compliance**

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until _____

☐ **Temporary Certificate of Occupancy**

The following conditions must be met no later than _____ or the owner will be subject to fine or order to vacate:
This certificate has an expiration date of: _____
Conditions to be met:


Construction Official

Date Printed: 01/20/2022

U.C.C. F260 (rev. 08/05)

Fee: \$150.00
Check Number: 2298
Collected By: Nichol Ponsi

Page 1



Sephora

BUILDING SUBCODE TECHNICAL SECTION



Date Received
Control #

Date Issued
Permit #

8/20/21

21-2202

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

Block 701 Lot 7 Qualification Code _____

Work Site Location Sephora Suite #4

Brick Commons 660 NJ-70 West

Owner in Fee: Urban Edge Properties

Tel. (201) 571-3544 e-mail _____

Address 210 Route 4 East Paramus, NJ 07652

Contractor: Steadfast Development and Construction Tel. (212) 861-6100

Address 315 East 91st Street, 5th Floor e-mail cm@steadfastbuild.com

New York, NY 10128

Contractor License No. or Builder Registration No. _____ Exp. Date _____

Home Improvement Contractor Registration No. or Exemption Reason _____

Federal Emp. ID No. 262710714 FAX: _____

JOB SUMMARY (Office Use Only)		PLAN REVIEW		Date		Initial		INSPECTIONS		Type:		Failure		Dates (Month/Day)		Initial	
☐	No Plans Required																
☒	All																
☐	Footings/Foundations																
☐	Structural/Framework																
☐	Exterior																
☐	Interior																
Joint Plan Review Required:																	
☐	Elec.	☐	Plumb.	☐	Fire	☐	Elevator										
SUBCODE APPROVAL for PERMIT																	
Date:																	
Approved by:																	
SUBCODE APPROVAL for CERTIFICATE																	
☒	CO	☐	CGO	☐	CA												
Date:																	
Approved by:																	

B. BUILDING CHARACTERISTICS

Use Group Present _____ Proposed _____

No. of Stories _____

Height of Structure _____ ft.

Area — Largest Floor _____ sq. ft.

New Bldg. Area/All Floors _____ sq. ft.

Volume of New Structure _____ cu. ft.

Max. Live Load _____

Max. Occupancy Load 58

Constr. Class Present _____ Proposed _____

If Industrialized Building:

State Approved _____ HUD _____

Est. Cost of Bldg. Work:

1. New Bldg.	\$	
2. Rehabilitation	\$	150,000
3. Total (1+ 2)	\$	150,000

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.

Sign here: Carl Musacchia

Print name here: Carl Musacchia

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

THIS PROJECT IS AN INTERIOR TENANT FIT-OUT FOR SEPHORA. WORK INCLUDES BUT IS NOT LIMITED TO, CONSTRUCTION OF INTERIOR WALLS / PARTITIONS, WALL FIXTURES, FLOORING, CEILING, LIGHT FIXTURES AND PARTIAL MECHANICAL, ELECTRICAL, AND PLUMBING.

COMMERCIAL

TYPE OF WORK:

- ☐ New Building
- ☐ Addition
- ☒ Rehabilitation
- ☐ Roofing
- ☐ Siding
- ☐ Fence _____ Height (exceeds 6')
- ☐ Sign _____ Sq. Ft.
- ☐ Pool
- ☐ Retaining Wall _____ Sq. Ft.
- ☐ Asbestos Abatement Subchapter 8
- ☐ Lead Haz. Abatement NJAC 5:17
- ☐ Radon Remediation
- ☐ Other _____
- ☐ Demolition

FEE (Office Use Only)

\$ _____

Administrative Surcharge \$ _____

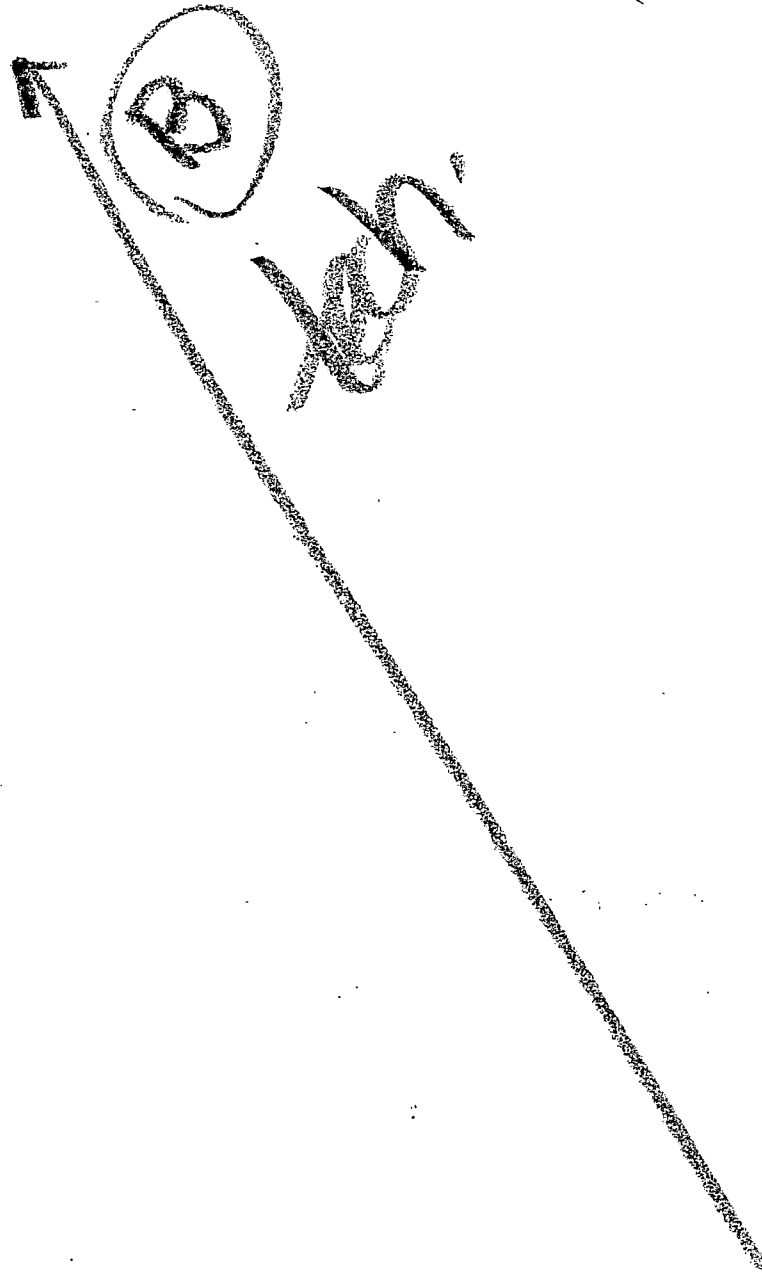
Minimum Fee \$ _____

State Permit Surcharge Fee \$ _____

TOTAL FEE \$ _____

* 11-19-21 Partial Frame Bathrooms and Party Room

[Signature]



10/19/2021

Sephora



ELECTRICAL SUBCODE TECHNICAL SECTION

Date Received
Control #
Date Issued
Permit #

1/11/22
91-2202+D

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

Block 701 Lot 7 Qualification Code _____
Work Site Location 744 Route 70 Brick Township NJ

732-259-8457 Dan.

Owner in Fee: Bricktown VF LLC

Tel. _____ e-mail _____

Address 210 Route 4 East Paramus NJ 07652

street municipality zip code

Contractor: Vector Security Tel. _____

Address 13555 Wellington Center Circle e-mail _____

Gainesville VA 20155

Contractor License No. BA00040300 Exp. Date 08/20/2002

Home Improvement Contractor Registration No. or Exemption Reason _____

Federal Emp. ID No. _____ FAX: _____

B. ELECTRICAL CHARACTERISTICS

Use Group Present _____ Proposed _____

[] Pole/Pad # _____ [] Temporary [] Other _____

Building Occupied as _____ Utility Co. _____

Est. Cost of Elec. Work \$ 3,500

JOB SUMMARY (Office Use Only)		INSPECTIONS		Dates (Month/Day)	
PLAN REVIEW		Type:	Failure	Failure	Approval
[] No Plans Required		Rough			
[] Partial - Underslab Utilities Approved		Barrier-Free			
Date: _____ Approved by: _____		Trench			
[X] Electric Plans Approved		Temp. Serv.			
Date: <u>11-22-21</u> Approved by: <u>MR</u>		Constr. Serv.			
Joint Plan Review Required:		TCO			
[] Bldg. [] Plumb. [] Fire. [] Elev.		Other			
SUBCODE APPROVAL for PERMIT		Service			
Date: <u>11-22-21</u>		Final		<u>1-7-22</u>	<u>DD</u>
Approved by: <u>MR</u>		Barrier-Free			
SUBCODE APPROVAL for CERTIFICATE		Temp. Cut-in-Card Date Issued			
[] CO [] CCO [] CA		Final Cut-in-Card Date Issued			
Date: <u>1-10-22</u>		Annual Pool Inspection			
Approved by: <u>MR</u>		Date of Grounding and Bonding Certification			

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 and perform the work listed on this application.

Applicant sign/Contractor sign and seal here: [Signature]

Print name here: Daniel Chionchio

☒ Licensed Electrical Contractor ☒ Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:
Install swecurity system - burglar alarm, cameras

QTY.	SIZE	ITEMS	FEE (Office Use Only)
		Lighting Fixtures	
		Receptacles	
		Switches	
		Detectors	
		Light Poles	
		Motors—Fract. HP	
		Emergency & Exit Lights	
		Communications Points	
		Alarm Devices/F.A.C. Panel	
<u>1</u>		<u>Burglar alarm</u>	
<u>1</u>		<u>TOTAL NUMBERS</u>	\$
		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	
<u>1</u>	<u>61</u>	<u>Video security</u>	

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



ELECTRICAL SUBCODE TECHNICAL SECTION



Date Received
Date Issued
Control #
Permit #

8/20/21
21-2202

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

101 Lot 7 Qualification Code
Site Location SEPHERA SUITE #4
BRICK COMMONS 660 NJ-70 WEST

Owner in Fee: URBAN EDGE PROPERTIES

Tel. 201 571-3544 e-mail

Address 210 ROUTE 4 EAST, PARAMOUNT NJ 07652
street municipality zip code

Contractor: D/B/A APEX ELECTRICAL Tel. (973) 238-4484 x3

Address 416 LAFAYETTE AVENUE

HAWTHORNE, NEW JERSEY 07506 e-mail apextcraw@aol.com

Contractor License No. 34EI01241100 Exp. Date 3/31/2021

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

Federal Emp. ID No. 22-2398137 FAX: (973) 238-1495

B. ELECTRICAL CHARACTERISTICS

Use Group: Present M Proposed M

[] Pole/Pad # [] Temporary [] Other

Building Occupied as MERCANTILE Utility Co. JCP&L

Estimated Cost of Electrical Work \$ 110,500.00

JOB SUMMARY (Office Use Only)		INSPECTIONS		Dates (Month/Day)	
PLAN REVIEW		Type:	Failure	Approval	Initial
[] No Plans Required		Rough	Completed	11-17	21/11
[] Partial-Under-slab Utilities Approved		Barrier-Free			
Date: Approved by:		Trench			
[X] Electric Plans Approved		Temp. Serv.			
Date: 5-18-21 Approved by: MM		Constr. Serv.			
Joint Plan Review Required:		TCO			
[] Bldg. [] Plumb. [] Fire [] Elev.		Other			
SUBCODE APPROVAL for PERMIT		Service			
Date: 5-18-21		Final		1-7-22	MM
Approved by: MM		Barrier-Free			
SUBCODE APPROVAL for CERTIFICATE		Temp. Cut-in-Card Date Issued			
[X] CO [] CCO [] CA		Final Cut-in-Card Date Issued			
Date: 1-7-22		Annual Pool Inspection			
Approved by:		Date of Grounding and Bonding Certification			

C. CERTIFICATION IN LIEU OF OATH

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

Applicant sign/Contractor sign and seal here

Print name here:

[X] Licensed Elec. Contractor [] Certified Landscape Irrigation Contr'r [] Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:

TENANT FIT-OUT

QTY. SIZE

243
34
24
4
26
21
10
10

395

1 3.0

3 15.96

1 5.01

5 114

1 112.5

1 250

4 →

1 1.2

1 1.8

ITEMS

Lighting Fixture
Receptacles
Switches
Detectors
Light Poles
Motors—Fract. HP
Emergency & Exit Lights
Communications Points
Alarm Devices/F.A.C. Panel

TOTAL NUMBER

Pool Permit/with UW Lights
Storable Pool/Spa/Hot Tub
KW Elec. Rang/Receptacle
KW Oven/Surface Unit
KW Elec. Water Heater
KW Elec. Dryer/Receptacle
KW Dishwasher
HP Garbage Disposal
KW Central A/C Unit (Landlord work) per Katy @ permit advisors
HP KW Space Heater Air Handler
KW Baseboard Heat
HP Motors 1/+ HP
KW Transformer/Generator
AMP Service
AMP Subpanels 250/225/2-100
AMP Motor Control Center
KW Elec. Sign/Outline Light
KW HAIR TEST PRYER

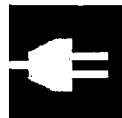
FEE (Office Use Only)

\$

COMMERCIAL

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

ELECTRICAL SUBCODE TECHNICAL SECTION



Date Received
Control #
Date Issued
Permit #

8/20/21
21-22024B

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 and perform the work listed on this application.

Applicant sign/Contractor
sign and seal here:

[Signature]

Print name here: ALEXANDER MINICOZZI

☐ Licensed Electrical Contractor

☐ Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:

QTY.	SIZE	ITEMS
		Lighting Fixtures
		Receptacles
		Switches
		Detectors
		Light Poles
		Motors—Fract. HP
		Emergency & Exit Lights
		Communications Points
		Alarm Devices/F.A.C. Panel

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)

\$

23

0

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

Address: 70 WEST BRICK SEPHERA Lot 7 Qualification Code

Owner in Fee: URBAN EDGE PROPERTIES

Tel. (201) 571-3544 e-mail JNICODEMO@UEDGE.COM

Address 210 ROUTE 4 EAST PARAMUS, NY 07652

Contractor: GENERAL SECURITY Tel. (516) 414-4129

Address 100 FAIRCHILD AVENUE PLAINVIEW, NY e-mail am@generalcompanies.co

Contractor License No. 12000262513 Exp. Date 11/22/2022

Home Improvement Contractor Registration No. or Exemption Reason

Federal Emp. ID No. FAX:

B. ELECTRICAL CHARACTERISTICS

Use Group Present Proposed

☐ Pole/Pad # ☐ Temporary ☐ Other

Building Occupied as Utility Co.

Est. Cost of Elec. Work \$ 7,000

JOB SUMMARY (Office Use Only)

PLAN REVIEW

☐ No Plans Required

☐ Partial -Underslab Utilities Approved

Date: Approved by:

☒ Electric Plans Approved

Date: 8-11-21 Approved by: *[Signature]*

Joint Plan Review Required:

☐ Bldg. ☐ Plumb. ☐ Fire. ☐ Elev.

SUBCODE APPROVAL for PERMIT

Date: 8-11-21

Approved by: *[Signature]*

SUBCODE APPROVAL for CERTIFICATE

☐ CO ☐ CCO ☒ CA

Date: 1-10-22

Approved by: *[Signature]*

INSPECTIONS

Type: Failure Failure Approval Initial

Rough 11-17-21 *[Signature]*

Barrier-Free

Trench

Temp. Serv.

Constr. Serv.

TCO

Other

Service

Final 1-7-22 *[Signature]*

Barrier-Free

Temp. Cut-in-Card Date Issued

Final Cut-in-Card Date Issued

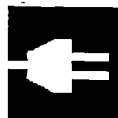
Annual Pool Inspection

Date of Grounding and Bonding

Certification

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

ELECTRICAL SUBCODE
TECHNICAL SECTION



Update 12/13/21

Date Received
Control #
Date Issued
Permit #

1/14/22
21-2202+**E**

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

Work Site Location **70 744 Rt 70** Qualification Code

Owner in Fee: **Brick Commons**

Tel. () e-mail

Address

Contractor: **RED IRON TECHNOLOGIES** Tel. **973-885-1146**

Address **10 WESTMINSTER PR** e-mail **rsplitzer@optonline.net**

Contractor License No. **2294** Exp. Date

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

Federal Emp. ID No. FAX: ()

B. ELECTRICAL CHARACTERISTICS

Use Group Present Proposed

[] Pole/Pad # [] Temporary [] Other

Building Occupied as Utility Co.

Est. Cost of Elec. Work \$ **6000.00**

JOB SUMMARY (Office Use Only)

PLAN REVIEW		INSPECTIONS		Dates (Month/Day)	
Type:	Failure	Failure	Approval	Initial	
[] No Plans Required					
[] Partial -Underslab Utilities Approved					
Date: Approved by:					
[] Electric Plans Approved					
Date: Approved by:					
Joint Plan Review Required:					
[] Bldg. [] Plumb. [] Fire. [] Elev.					
SUBCODE APPROVAL for PERMIT					
Date: 1-7-22					
Approved by: MR					
SUBCODE APPROVAL for CERTIFICATE					
[] CO [] CCO [] CA					
Date: 1-10-22					
Approved by: W					

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 and perform the work listed on this application.

Applicant sign/Contractor sign and seal here: **Ron Spitzer**

Print name here: **Ron Spitzer**

[] Licensed Electrical Contractor [] Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK: **Network System**

QTY.	SIZE	ITEMS	FEE (Office Use Only)
		Lighting Fixtures	
		Receptacles	
		Switches	
		Detectors	
		Light Poles	
		Motors—Fract. HP	
		Emergency & Exit Lights	
		Communications Points	
		Alarm Devices/F.A.C. Panel	
		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	

on original plans

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



PLUMBING SUBCODE TECHNICAL SECTION



Change of
Cont. only

Date Received
Control #

10/27/24

Date Issued
Permit #

21-2202

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

Block 101 Lot 7 Qualification Code _____

Work Site Location 6601 West 70

Brick 125

Owner in Fee: Bricktown VF

Tel. _____ e-mail _____

Address 210 St 4 E Paramus NJ

Contractor: Forte Express Pkg & Htg Inc Tel. 913 6850111

Address 225 Paterson Ave e-mail _____

Woodliffington NJ 07057

Contractor License No. 36 BE 00924000 Exp. Date 6/30/2023

Home Improvement Contractor Registration No. or Exemption Reason _____

Federal Emp. ID No. 22 380 2076 FAX: _____

B. PLUMBING CHARACTERISTICS

Use Group _____ Present _____ Proposed _____

Building Sewer Size _____ Public Sewer _____ Private Septic _____

Water Service Size _____ Public Water _____ Private Well _____

Est. Cost of Plumbing Work \$ _____

JOB SUMMARY (Office Use Only)

PLAN REVIEW

☐ No Plans Required

☐ Partial Underslab Utilities Approved

Date _____ Approved by: _____

☐ Plumbing Plans Approved

Date _____ Approved by: _____

Joint Plan Review Required:

☐ Bldg. ☐ Elec. ☐ Fire. ☐ Elev.

SUBCODE APPROVAL for PERMIT

Date _____ Approved by: _____

SUBCODE APPROVAL for CERTIFICATE

N ☐ CO ☐ CCO ☐ CA

Date: 1-10-22

Approved by: _____

INSPECTIONS	Dates (Month/Day)			
	Failure	Failure	Approval	Initial
Type:				
Slab			10-28-21	GR
Rough			11-18-21	GR
Water				
Sewer				
Fixtures				
Gas Equipment				
Gas Piping				
LPGas Tank				
Fuel Oil Piping				
Solar				
TCO			1-7-22	GR
Final				

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 and perform the work listed on this application.

Applicant sign/Contractor sign and seal here: _____

Print name here: _____

☐ Licensed Plumbing Contractor ☐ Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

Change of Contractor

QTY.	FIXTURE/EQUIPMENT	FEE (Office Use Only)
_____	Water Closet	\$ _____
_____	Urinal/Bidet	\$ _____
_____	Bath Tub	\$ _____
_____	Lavatory	\$ _____
_____	Shower	\$ _____
_____	Floor Drain	\$ _____
_____	Sink	\$ _____
_____	Dishwasher	\$ _____
_____	Drinking Fountain	\$ _____
_____	Washing Machine	\$ _____
_____	Hose Bibb	\$ _____
_____	Water Heater	\$ _____
_____	Fuel Oil Piping	\$ _____
_____	Gas Piping	\$ _____
_____	LPGas Tank	\$ _____
_____	Steam Boiler	\$ _____
_____	Hot Water Boiler	\$ _____
_____	Sewer Pump	\$ _____
_____	Interceptor/Separator	\$ _____
_____	Backflow Preventer	\$ _____
_____	Greasetrap	\$ _____
_____	Sewer Connection	\$ _____
_____	Water Service Connection	\$ _____
_____	Stacks	\$ _____
_____	Other	\$ _____

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



Sephora

PLUMBING SUBCODE TECHNICAL SECTION



Date Received

Control #

8/20/21

Date Issued

Permit #

21-2202

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

Block 701 Lot 7 Qualification Code _____

Work Site Location Sephora - Brick Commons

Owner in Fee: Urban Edge Properties

Tel. (201) 571-3544 e-mail _____

Address 210 Route 4 East Paramus, NJ 07652
street municipality zip code

Contractor: MANNY STEIN, INC. Tel. (973) 672-0900

Address 199 SCOTLAND ROAD e-mail msteininc@gmail.com
ORANGE, NEW JERSEY 07050

Contractor License No. 7065 / 8266 Exp. Date 6/21

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

Federal Emp. ID No. 22-1693841 FAX: (973) 672-8761

B. PLUMBING CHARACTERISTICS

Use Group Present M Proposed M

Building Sewer Size 4" Public Sewer _____ Private Septic _____

Water Service Size 1" Public Water _____ Private Well _____

Est. Cost of Plumbing Work \$ 30,000.00

JOB SUMMARY (Office Use Only)

PLAN REVIEW

- ☐ No Plans Required
☐ Partial Underslab Utilities Approved

Date: _____ Approved by: _____

☒ Plumbing Plans Approved

Date: 8-10-21 Approved by: [Signature]

Joint Plan Review Required: _____

☐ Bldg. ☐ Elec. ☐ Fire. ☐ Elev.

SUBCODE APPROVAL for PERMIT

Date: 8-10-21

Approved by: [Signature]

SUBCODE APPROVAL for CERTIFICATE

☒ CO ☐ CCO ☐ CA

Date: 1-10-22

Approved by: [Signature]

INSPECTIONS

Type	Failure	Failure	Approval	Initial
Slab				
Rough				
Water				
Sewer				
Fixtures				
Gas Equipment				
Gas Piping				
LPGas Tank				
Fuel Oil Piping				
Solar				
TCO				
Final				

Dates (Month/Day)

11-18-21 [Signature]

1-17-22 [Signature]

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 and perform the work listed on this application.

Applicant sign/Contractor

sign and seal here:

Print name here:

☒ Licensed Plumbing Contractor

☐ Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

Tenant Fit Out

QTY.

2

FIXTURE/EQUIPMENT

Water Closet

Urinal/Bidet

Bath Tub

Lavatory

Shower

Floor Drain

Sink

Dishwasher

Drinking Fountain

Washing Machine

Hose Bibb

Water Heater

Fuel Oil Piping

Gas Piping

LPGas Tank

Steam Boiler

Hot Water Boiler

Sewer Pump

Interceptor/Separator

Backflow Preventer

Greasetrap

Sewer Connection

Water Service Connection

Stacks

Other map Sink

FEE (Office Use Only)

\$

COMMERCIAL

Administrative Surcharge \$

Minimum Fee \$

State Permit Surcharge Fee \$

TOTAL FEE \$



Sephora 4481 SGT

FIRE PROTECTION SUBCODE TECHNICAL SECTION



former
payless unit

Date Received

8/20/21

21-2202

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.

Applicant sign/Contractor
sign and seal here:

Print name here:

THOMAS CRAWFORD

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:

Water Supply Source

FIRE ALARM SYSTEM

Method of Alarm/Suppression System Supervision

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

Block 701 Lot 7 Qualification Code _____

Work Site Location SEPHORA SUITE #4

BRICK COMMONS 660 NJ-70 WEST

Owner in Fee: URBAN EDGE PROPERTIES

Tel. (201) 571-3544 e-mail _____

Address 210 ROUTE 4 EAST, PARAMUS, NJ 07652

Contractor: D/B/A APEX ELECTRICAL Tel. (973) 238-4484 x3

Address 416 LAFAYETTE AVENUE e-mail apextcraw@aol.com

HAWTHORNE, NEW JERSEY 07506

Fire Protection Equipment, NJ Div. of Fire Safety Permit No. N/A

Fire Protection Equipment, NJ Div. of Fire Safety Installer No. N/A

Fire Alarm Contractor No. NJ ELECTRICAL 34E101241100 Exp. Date 3/31/2021

Home Improvement Contractor Registration No. or Exemption Reason (if applicable) N/A

Federal Emp. ID No. 22-2398137 Fax: (973) 238-1495

B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present u Proposed u Fuel Storage Tank: _____

Constr. Class: Present u Proposed u Fuel Type: [] Flammable OR [] Combustible

Heating System: [] New OR [] Modification to Existing Fire Alarm System: [] New OR [] Existing

OR [] Conversion OR [] Replacement Location of Panel: Stock Room/Hall

Fuel Type: [] Gas [] Oil [] Electric [] Solar Fire Suppression/Standpipe System: _____

[] Other [] New OR [] Existing

Location: _____ Location of Main Control Valve: _____

Total Cost of Fire Protection Work \$ 12,500.00

Flammable/Combustible Tanks

Alarm System

[] System

[] 110v Interconnected

[] CO Detectors/110v

Alarm Devices (i.e., smoke, heat, pulls,

water/flow)

Supervisory Devices (i.e., tampers, low/high air)

Signaling Devices (i.e., horn/strobes, bells)

Other Devices PANEL

TOTAL

Suppression Systems

Fire Pump _____

Dry Pipe/Alarm Valves _____

Pre-action Valves _____

Sprinkler Heads (Dry and Wet) _____

Standpipes _____

Pre-engineered Systems

Wet Chemical _____

Dry Chemical _____

CO₂ Suppression _____

Foam Suppression _____

FM200 Suppression _____

Other _____

Other Systems

Kitchen Hood Exhaust System _____

Smoke Control System _____

Fuel-Fired Appliances [] Gas [] Oil [] Solid _____

Fireplace Venting/Metal Chimney _____

Other _____

JOB SUMMARY (Office Use Only)

PLAN REVIEW

[] No Plans Required

[] Partial - Underslab Utilities Approved

Date: _____ Approved by: _____

[] Fire Protection Plans Approved

Date: _____ Approved by: _____

Joint Plan Review Required:

[] Bldg. [] Elec. [] Plumb. [] Elev.

SUBCODE APPROVAL for PERMIT

Date: 8/20/21

Approved by: [Signature]

SUBCODE APPROVAL for CERTIFICATE

[] CO [] CCO [] CA

Date: 1-13-22

Approved by: [Signature]

INSPECTIONS

Type:

Alarm System

Suppression Sys.

Standpipe

Fire Pump

Pre-Eng. System

Mechanical

Smoke Control

TCO

Flam/Combust Tanks

Fireplace Venting

Final

Other

Dates (Month/Day)

Failure Failure Approval Initial



SEPHORA FIRE PROTECTION 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 701 Lot 7 Qualification Code _____

Work Site Location SEPHORA

BRICK COMMONS STORE 1720 SUITE #4 LHO RT 70 WEST

Owner in Fee URBAN EDGE PROPERTIES

Tel: (210) 571-3544 e-mail _____

Address 210 RT 4 E PALAMUS NJ 07652

Contractor TJ FIRE PROTECTION INC Tel 732 701 3307

Address 2410 SYLVAN DR #3 email _____

POINT PLEASANT NJ 08742

Fire Protection Equipment, NJ Div of Fire Safety Permit No. P00473

Fire Protection Equipment, NJ Div of Fire Safety Installer No. 153801

Fire Alarm Contractor No. 01A Exp. Date 10/2021

Home Improvement Contractor Registration No. or Exemption Reason _____

Federal Emp. ID No. 22-3648017 FAX: 732 701 3109

B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present m Proposed m

Constr. Glass Present 11B Proposed 11B

Heating System: [] New or [] Modification to Existing

or [] Conversion or [] Replacement

Fuel Type: [] Gas [] Oil [] Electric [] Solar

[] Other _____

Location _____

Total Cost of Fire Protection work \$ 17000

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.

Applicant/Contractor _____

Sign here: DAE BARKU

Print name here: DAE BARKU

[X] Certified Contractor [] Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK: MODIFICATION TO

Water Supply Source SPRINKLER SYSTEM

Method of Alarm/Suppression _____ System Supervision _____

JOB SUMMARY (Office Use Only)	INSPECTIONS	Dates (Month/Day)
PLAN REVIEW	Type:	Failure Failure Approval Initial
[] No Plans Required	Alarm System	
[] Partial-Underslab Utilities Approved	Suppression Sys.	
Date: _____ Approved by: _____	Standpipe	
[] Fire Protection Plans Approved	Fire Pump	
Date: _____ Approved by: _____	Pre-Eng. System	
Joint Plan Review Required:	Mechanical	
[] Bldg [] Elec [] Plumb [] Elev.	Smoke Control	
SUBCODE APPROVAL or PERMIT	TCO	
Date: <u>2/15/21</u>	Flam/Combust Tanks	
Approved by: <u>JOE ADE</u>	Fireplace Venting	
SUBCODE APPROVAL for CERTIFICATE	Final	<u>1/2/21</u>
[] [] CCO [] CA	Other	
DATE: _____		
Approved by: _____		

U.C.C. F140 (rev.02/11) Applicant: When submitting this form to your Local Construction Code Enforcement Office, please provide one

Internet version original plus three photocopies.

Date Received
Control

Date Issued
Permit #

8/20/21
21-2202-A

COMMERCIAL

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



FIRE PROTECTION 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 701 Lot 7 Qualification Code _____
Work Site Location SEPHORA - 70 WEST BRICK

Owner in Fee: URBAN EDGE PROPERTIES

Tel. (201) 571-3544 e-mail JNICODEMO@UEDGE.COM

Address 210 ROUTE 4 EAST PARAMUS, NY

Contractor: GENERAL SECURITY Tel. (516) 414-4129

Address 100 FAIRCHILD AVENUE PLAINVIEW, NY e-mail am@generalcompanies.co

Fire Protection Equipment, NJ Div of Fire Safety Permit No. P01067

Fire Protection Equipment, NJ Div of Fire Safety Installer No. 194557

Fire Alarm Contractor No. 12000262513 Exp. Date 11/22/2022

Home Improvement Contractor Registration No. or Exemption Reason _____

Federal Emp. ID No. _____ FAX: _____

B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present _____ Proposed _____

Constr. Class: Present _____ Proposed _____

Fuel Storage Tank:

Fuel Type: ☐ Flammable OR ☐ Combustible
Capacity _____

Heating System: ☐ New OR ☐ Modification to Existing
OR ☐ Conversion OR ☐ Replacement

Fire Alarm System: ☐ New OR ☐ Existing

Fuel Type: ☐ Gas ☐ Oil ☐ Electric ☐ Solar
☐ Other _____

Location of Panel: _____

Fire Suppression/Standpipe System:

☐ New OR ☐ Existing
Location of Main Control Valve: _____

Location: _____

Total Cost of Fire Protection Work \$ 7,000

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

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.

Applicant/Contractor sign here: _____

Print name here: ALEXANDER MINICOZZI

D. TECHNICAL SITE DATA

☐ Certified Contractor ☐ Exempt Applicant

DESCRIPTION OF WORK:

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, water/flow)	<u>15</u>	
Supervisory Devices (i.e., tampers, low/high air)		
Signaling Devices (i.e., horn/strobes, bells)	<u>68</u>	
Other Devices		
TOTAL	<u>0</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		
Fuel-Fired Appliances ☐ Gas ☐ Oil ☐ Solid		
Fireplace Venting/Metal Chimney		
Other _____		

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



FIRE PROTECTION SUBCODE TECHNICAL SECTION



Date Received
Control

8/20/21

Date Issued
Permit #

21-2202-C

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

Block 701 Lot 7 Qualification Code 70

Work Site Location Sephora - 744 Route 70

Owner in Fee BRICKTOWN VP LLC

Tel: 210 Route 15 E e-mail PODUNKS

Address 210 Route 15 E PODUNKS NJ 07652

Contractor Cardinal Fire Protection Tel 732 284 1450 07747

Address 97 Irongate Lane email Cardinalfirenj@gmail

Aberdeen, NJ 07447

Fire Protection Equipment, NJ Div of Fire Safety Permit No. P01578

Fire Protection Equipment, NJ Div of Fire Safety Installer No. 194472

Fire Alarm Contractor No. 10/31/2022 Exp. Date

Home Improvement Contractor Registration No. or Exemption Reason

Federal Emp. ID No. 84-2195896 FAX: 732 583 3829

B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present M Proposed M

Constr. Glass Present 11B Proposed 11B

Heating System: ☐ New or ☐ Modification to Existing

or ☐ Conversion or ☐ Replacement

Fuel Type: ☐ Gas ☐ Oil ☐ Electric ☐ Solar

☐ Other

Location \$15,800

Total Cost of Fire Protection work \$

INSPECTIONS

Dates (Month/Day)

PLAN REVIEW

☐ No Plans Required

☐ Partial-Underslab Utilities Approved

Date: 8/15/21 Approved by: W. A. B. S.

☐ Fire Protection Plans Approved

Date: 8/15/21 Approved by: W. A. B. S.

Joint Plan Review Required:

☐ Bldg ☐ Elec ☐ Plumb ☐ Elev

SUBCODE APPROVAL or PERMIT

Date: 8/15/21 Approved by: W. A. B. S.

SUBCODE APPROVAL for CERTIFICATE

☐ ☐ CCO ☐ CA

DATE: 8/15/21 Approved by: W. A. B. S.

U.C.C. F140 (rev.02/11) Applicant: When submitting this form to your Local Construction Code Enforcement Office, please provide one

Internet version original plus three photocopies.

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.

Applicant/Contractor

Sign here:

Print name here:

☒ Certified Contractor ☐ Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:

Water Supply Source

Method of Alarm/Suppression System Supervision

Flammable/Combustible Tanks

Alarm Systems

☐ System

☐ 110v Interconnected

☐ CO Detectors/110v

Alarm Devices (i.e., smoke, heat, pulls,

water/flow

Supervisory Devices (i.e., tampers, low/high air)

Signaling Devices (i.e. horn/strobes, bells)

Other Devices

TOTAL

Suppression Systems

Fire Pump 13 GMP Type

Dry Pipe/Alarm Valves

Pre-action Valves

Sprinkler Heads (Dry and Wet)

Standpipes

Pre-engineered Systems

Wet Chemical

Dry Chemical

CO₂ Suppression

Foam Suppression

FM200 Suppression

Other

Other Systems

Kitchen Hood Exhaust System

Smoke Control System

Fuel-Fired Appliances ☐ Gas ☐ Oil ☐ Solid

Fireplace Venting/Metal Chimney

Other

Administrative Surcharge \$

Minimum Fee \$

State Permit surcharge Fee \$

TOTAL FEE \$



CERTIFICATE OF INSURANCE COVERAGE DISABILITY AND PAID FAMILY LEAVE BENEFITS LAW

PART 1. To be completed by Disability and Paid Family Leave Benefits Carrier or Licensed Insurance Agent of that Carrier

1a. Legal Name & Address of Insured (use street address only) GENERAL SECURITY, INC. 100 FAIRCHILD AVENUE PLAINVIEW, NY 11803 Work Location of Insured (Only required if coverage is specifically limited to certain locations in New York State, i.e., Wrap-Up Policy) 1018 Suffolk Avenue Brentwood NY	1b. Business Telephone Number of Insured 5164142740 1c. Federal Employer Identification Number of Insured or Social Security Number 11-2712674
2. Name and Address of Entity Requesting Proof of Coverage (Entity Being Listed as the Certificate Holder) Town of Islip Fire Marshals Office 24 Nassau Avenue Islip, NY 11751	3a. Name of Insurance Carrier Standard Security Life Insurance Company of New York 3b. Policy Number of Entity Listed in Box "1a" R17179-000 3c. Policy effective period 1/1/2017 to 7/18/2022

4. Policy provides the following benefits:

- ☒ A. Both disability and paid family leave benefits.
☐ B. Disability benefits only.
☐ C. Paid family leave benefits only.

5. Policy covers:

- ☒ A. All of the employer's employees eligible under the NYS Disability and Paid Family Leave Benefits Law.
☐ B. Only the following class or classes of employer's employees:

Under penalty of perjury, I certify that I am an authorized representative or licensed agent of the insurance carrier referenced above and that the named insured has NYS Disability and/or Paid Family Leave Benefits insurance coverage as described above.

Date Signed 7/19/2021 By Bela J. Karpail
(Signature of insurance carrier's authorized representative or NYS Licensed Insurance Agent of that insurance carrier)

Telephone Number (212) 355-4141 Name and Title SUPERVISOR-DBL/POLICY SERVICES

IMPORTANT: If Boxes 4A and 5A are checked, and this form is signed by the insurance carrier's authorized representative or NYS Licensed Insurance Agent of that carrier, this certificate is COMPLETE. Mail it directly to the certificate holder.

If Box 4B, 4C or 5B is checked, this certificate is NOT COMPLETE for purposes of Section 220, Subd. 8 of the NYS Disability and Paid Family Leave Benefits Law. It must be mailed for completion to the Workers' Compensation Board, Plans Acceptance Unit, PO Box 5200, Binghamton, NY 13902-5200.

PART 2. To be completed by the NYS Workers' Compensation Board (Only if Box 4C or 5B of Part 1 has been checked)

State of New York Workers' Compensation Board

According to information maintained by the NYS Workers' Compensation Board, the above-named employer has complied with the NYS Disability and Paid Family Leave Benefits Law with respect to all of his/her employees.

Date Signed _____ By _____
(Signature of Authorized NYS Workers' Compensation Board Employee)

Telephone Number _____ Name and Title _____

Please Note: Only insurance carriers licensed to write NYS disability and paid family leave benefits insurance policies and NYS licensed insurance agents of those insurance carriers are authorized to issue Form DB-120.1. Insurance brokers are NOT authorized to issue this form.



Additional Instructions for Form DB-120.1

By signing this form, the insurance carrier identified in Box 3 on this form is certifying that it is insuring the business referenced in box "1a" for disability and/or paid family leave benefits under the New York State Disability and Paid Family Leave Benefits Law. The Insurance Carrier or its licensed agent will send this Certificate of Insurance to the entity listed as the certificate holder in Box 2.

The insurance carrier must notify the above certificate holder and the Workers' Compensation Board within 10 days IF a policy is cancelled due to nonpayment of premiums or within 30 days IF there are reasons other than nonpayment of premiums that cancel the policy or eliminate the insured from coverage indicated on this Certificate. (These notices may be sent by regular mail.) Otherwise, this Certificate is valid for one year after this form is approved by the insurance carrier or its licensed agent, or until the policy expiration date listed in Box 3c, whichever is earlier

This certificate is issued as a matter of information only and confers no rights upon the certificate holder. This certificate does not amend, extend or alter the coverage afforded by the policy listed, nor does it confer any rights or responsibilities beyond those contained in the referenced policy.

This certificate may be used as evidence of a Disability and/or Paid Family Leave Benefits contract of insurance only while the underlying policy is in effect.

Please Note: Upon the cancellation of the disability and/or paid family leave benefits policy indicated on this form, if the business continues to be named on a permit, license or contract issued by a certificate holder, the business must provide that certificate holder with a new Certificate of NYS Disability and/or Paid Family Leave Benefits Coverage or other authorized proof that the business is complying with the mandatory coverage requirements of the New York State Disability and Paid Family Leave Benefits Law.

DISABILITY AND PAID FAMILY LEAVE BENEFITS LAW

§220. Subd. 8

(a) The head of a state or municipal department, board, commission or office authorized or required by law to issue any permit for or in connection with any work involving the employment of employees in employment as defined in this article, and notwithstanding any general or special statute requiring or authorizing the issue of such permits, shall not issue such permit unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that the payment of disability benefits and after January first, two thousand and twenty-one, the payment of family leave benefits for all employees has been secured as provided by this article. Nothing herein, however, shall be construed as creating any liability on the part of such state or municipal department, board, commission or office to pay any disability benefits to any such employee if so employed.

(b) The head of a state or municipal department, board, commission or office authorized or required by law to enter into any contract for or in connection with any work involving the employment of employees in employment as defined in this article and notwithstanding any general or special statute requiring or authorizing any such contract, shall not enter into any such contract unless proof duly subscribed by an insurance carrier is produced in a form satisfactory to the chair, that the payment of disability benefits and after January first, two thousand eighteen, the payment of family leave benefits for all employees has been secured as provided by this article.



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



Hereby Issues To
ALEXANDER MINICOZZI

The Following Certification As
FIRE ALARM SYSTEM

09/13/2019 to **10/31/2022**
Issue Date Lapse Date


Lieutenant Governor Sheila Y. Oliver
Commissioner

STATE OF NEW JERSEY
DIVISION OF FIRE SAFETY

This is to certify that: ALEXANDER MINICOZZI

Has been certified as: C4-FAS

09/13/2019 to **10/31/2022**
Issue Date Lapse Date

194557
DP SID Number

PLEASE DETACH HERE

If your certification card is lost please notify:

Contractor's Certification and Emblems Unit
Division of Fire Safety
P.O. Box 809
Trenton, NJ 08625-0809

PLEASE DETACH HERE

Dear **ALEXANDER MINICOZZI**:

Congratulations on being certified in the fire protection title indicated above. Let me commend you on your professional attitude and desire to provide a valuable service to your employer, industry and the citizens of New Jersey.

Fire protection certifications are valid for a period of three years. Recertification is achieved by accumulating a prescribed number of continuing professional development points and/or experience and educational credits. Once the certificate holder has met those requirements a renewal application may be submitted to the Contractor Certification Unit.

Again, I would like to extend my congratulations to you on your accomplishments and trust you will continue to strive for excellence by your experience and professional development. Please do not hesitate to contact the Division of Fire Safety, Contractor Certification Unit at (609) 984-7860 if we may further assist you.

Sincerely,


Lieutenant Governor Sheila Y. Oliver
Commissioner

Tenant fit-ups / Commercial Renovations

Certificate requirements

[print](#)
[reset defaults](#)
[check all](#)
[complete](#)

Tenant fit-ups / Commercial Renovations**UCC Requirements**

Approved Final Building Inspection	comment	☒	☐
Approved Final Electrical Inspection	comment	☒	☐
Approved Final Plumbing Inspection	comment	☒	☐
Approved Final Fire Inspection	comment	☒	☐
Approved Final Elevator Inspection (If Applicable)	comment	☐	☒

Prior Approvals

Approval from the BTMUA (732) 458-7000	comment	☒	☐
Emailed MUA on 1/13/22 MFF ok per MUA on 1/13/22 MFF			
Approval from the Division of Engineering (If Applicable)	comment	☐	☒
Final Ocean County Soil Conservation 714 Lacey Rd. Forked River (609) 971-7002 (If Applicable)	comment	☐	☒
Affordable Housing Approval (If Applicable)	comment	☐	☒
Signed Certificate of Occupancy Application	comment	☒	☐
All Updates Have Been Approved	comment	☒	☐

This checklist has been given to: [\(edit\)](#)



516.997.6464 • FAX 516.719.7446.
100 FAIRCHILD AVENUE, PLAINVIEW, NY 11803

INSPECTION, TESTING, AND MAINTENANCE

72-101

INSPECTION AND TESTING FORM

GS Acct # 0800-2360

SERVICE ORGANIZATION

Name: GENERAL SECURITY, INC.

Address: 100 Fairchild Ave., Plainview, NY 11803

Representative: Cesar Torres

License No.: 12000001468

Telephone: 516.997.6464

DATE: 1-12-22

TIME: _____

PROPERTY NAME (USER)

Name: Sephora

Address: 660 W 70th St, Bklyn, NY

Owner Contact: _____

Telephone: _____

MONITORING ENTITY

Contact: United Central Station

Telephone: 800.645.6520

APPROVING AGENCY

Contact: _____

Telephone: _____

TYPE TRANSMISSION

☐ McCulloh

☐ Multiplex

☐ Digital

☐ Reverse Priority

☒ RF

☐ Other (Specify) _____

SERVICE

☐ Weekly

☐ Monthly

☐ Quarterly

☐ Semiannually

☒ Annually

☐ Other (Specify) _____

Control Unit Manufacturer: Vigilant

Circuit Styles: B

Number of Circuits: 5

Software Rev.: _____

Last Date System Had Any Service Performed: _____

Last Date that Any Software or Configuration Was Revised: _____

Model No.: VS-1

ALARM-INITIATING DEVICES AND CIRCUIT INFORMATION

Quantity	Circuit Style
<u>2</u>	<u>B</u>
<u>1</u>	<u>B</u>
<u>2</u>	<u>B</u>
<u>2</u>	<u>B</u>

Manual Fire Alarm Boxes

Ion Detectors

Photo Detectors

Duct Detectors

Heat Detectors

Waterflow Switches

Supervisory Switches

Other (Specify): C.O. Detectors

Alarm verification feature is disabled ☒ enabled _____

(NFPA Inspection and Testing, 1 of 4)

FIGURE 10.6.2.3 Example of an Inspection and Testing Form.

PRIOR TO ANY TESTING				
NOTIFICATIONS ARE MADE	Yes	No	Who	Time
Monitoring Entity	☐	☐	_____	_____
Building Occupants	☐	☐	_____	_____
Building Management	☐	☐	_____	_____
Other (Specify)	☐	☐	_____	_____
AHJ Notified of Any Impairments	☐	☐	_____	_____

SYSTEM TESTS AND INSPECTIONS			
TYPE	Visual	Functional	Comments
Control Unit	☒	☒	_____
Interface Equipment	☒	☒	_____
Lamps/LEDS	☒	☒	_____
Fuses	☒	☒	_____
Primary Power Supply	☒	☒	_____
Trouble Signals	☒	☒	_____
Disconnect Switches	☒	☒	_____
Ground-Fault Monitoring	☒	☒	_____

SECONDARY POWER			
TYPE	Visual	Functional	Comments
Battery Condition	☒	☒	_____
Load Voltage		☒	_____
Discharge Test		☒	_____
Charger Test		☒	_____
Specific Gravity		☐	_____

TRANSIENT SUPPRESSORS			
	Visual	Functional	Comments
	☐	☒	_____

REMOTE ANNUNCIATORS			
	Visual	Functional	Comments
	☒	☒	_____

NOTIFICATION APPLIANCES			
	Visual	Functional	Comments
Audible	☒	☒	_____
Visible	☒	☒	_____
Speakers	☐	☐	_____
Voice Clarity		☐	_____

INITIATING AND SUPERVISORY DEVICE TESTS AND INSPECTIONS							
Loc. & S/N	Device Type	Visual Check	Functional Test	Factory Setting	Measured Setting	Pass	Fail
<i>Above FACP</i>	<i>Smoke</i>	☒	☒	_____	_____	☒	☐
<i>5th flr Rm</i>	<i>CO</i>	☒	☒	_____	_____	☒	☐
<i>5th flr</i>	<i>CO</i>	☒	☒	_____	_____	☒	☐
<i>5th flr</i>	<i>Quick Det</i>	☒	☒	_____	_____	☒	☐
<i>By Entry</i>	<i>Pulls</i>	☒	☐	_____	_____	☒	☐
		☐	☐	_____	_____	☐	☐

Comments: _____

(NFPA Inspection and Testing, 3 of 4)

FIGURE 10.6.2.3 Continued

EMERGENCY COMMUNICATIONS EQUIPMENT	Visual	Functional	Comments
Phone Set	☐	☐	
Phone Jacks	☐	☐	
Off-Hook Indicator	☐	☐	
Amplifier(s)	☐	☐	
Tone Generator(s)	☐	☐	
Call-in Signal	☐	☐	
System Performance	☐	☐	

INTERFACE EQUIPMENT	Visual	Device Operation	Simulated Operation
(Specify) _____	☐	☐	☐
(Specify) _____	☐	☐	☐
(Specify) _____	☐	☐	☐

SPECIAL HAZARD SYSTEMS	Visual	Device Operation	Simulated Operation
(Specify) _____	☐	☐	☐
(Specify) _____	☐	☐	☐
(Specify) _____	☐	☐	☐

Special Procedures: _____

Comments: _____

SUPERVISING STATION MONITORING	Yes	No	Time	Comments
Alarm Signal	☒	☐		
Alarm Restoration	☒	☐		
Trouble Signal	☒	☐		
Supervisory Signal	☒	☐		
Supervisory Restoration	☒	☐		

NOTIFICATIONS THAT TESTING IS COMPLETE	Yes	No	Who	Time
Building Management	☐	☐		
Monitoring Agency	☐	☐		
Building Occupants	☐	☐		
Other (Specify) _____	☐	☐		

The following did not operate correctly: _____

System restored to normal operation: Date: 1-12-22 Time: _____

THIS TESTING WAS PERFORMED IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS.

Name of Inspector: Cesar Torres Jr Date: 1-12-22 Time: _____

Signature: Cesar Torres Jr

Name of Owner or Representative: _____

Date: _____ Time: _____

Signature: _____

(NFPA Inspection and Testing, 4 of 4)

FIGURE 10.6.2.3 Continued

ALARM NOTIFICATION APPLIANCES AND CIRCUIT INFORMATION

Quantity	Circuit Style	
_____	_____	Bells
_____	_____	Horns
_____	_____	Chimes
<u>2</u>	<u>B</u>	Strobes
<u>5</u>	<u>B</u>	Speakers
		Other (Specify): <u>Horn/5 Strobes</u>
No. of alarm notification appliance circuits: <u>2</u>		
Are circuits monitored for integrity? ☒ Yes ☐ No		

SUPERVISORY SIGNAL-INITIATING DEVICES AND CIRCUIT INFORMATION

Quantity	Circuit Style	
_____	_____	Building Temp.
_____	_____	Site Water Temp.
_____	_____	Site Water Level
_____	_____	Fire Pump Power
_____	_____	Fire Pump Running
_____	_____	Fire Pump Auto Position
_____	_____	Fire Pump or Pump Controller Trouble
_____	_____	Fire Pump Running
_____	_____	Generator In Auto Position
_____	_____	Generator or Controller Trouble
_____	_____	Switch Transfer
_____	_____	Generator Engine Running
_____	_____	Other: _____

SIGNALING LINE CIRCUITS

Quantity and style of signaling line circuits connected to system (see NFPA 72, Table 6.6.1):

Quantity _____ Style(s) _____

SYSTEM POWER SUPPLIES

(a) Primary (Main): Nominal Voltage 110 VAC Amps _____

Overcurrent Protection: Type _____ Amps _____

Location (of Primary Supply Panelboard): Electrical RoomDisconnecting Means Location: Panel B Breaker #22(b) Secondary (Standby): 24VDC Storage Battery: Amp-Hr. Rating 12 Ah

Calculated capacity to operate system, in hours: _____ 24 _____ 60

Engine-driven generator dedicated to fire alarm system: _____

Location of fuel storage: _____

TYPE BATTERY

- ☐ Dry Cell
☐ Nickel-Cadmium
☒ Sealed Lead-Acid
☐ Lead-Acid
☐ Other (Specify): _____

(c) Emergency or standby system used as a backup to primary power supply, instead of using a secondary power supply:

- ☐ Emergency system described in NFPA 70, Article 700
☐ Legally required standby described in NFPA 70, Article 701
☐ Optional standby system described in NFPA 70, Article 702, which also meets the performance requirements of Article 700 or 701.

(NFPA Inspection and Testing, 2 of 4)

FIGURE 10.6.2.3 Continued

Matthew Fagen

From: Bev O'Neill <boneill@brickmua.com>
Sent: Thursday, January 13, 2022 12:15 PM
To: Matthew Fagen
Subject: RE: Sephora - 744 Route 70 Block: 701 Lot: 7

Matt, we were just out everything is ok. Bev

From: Matthew Fagen <mfagen@twp.brick.nj.us>
Sent: Thursday, January 13, 2022 11:30 AM
To: Susan Stanisz <sstanisz@brickmua.com>; Bev O'Neill <boneill@brickmua.com>
Subject: Sephora - 744 Route 70 Block: 701 Lot: 7

EXTERNAL EMAIL - Do not click any links or open any attachments unless you trust the sender and know the content is safe!

Good morning. We are close to issuing a CO for Sephora located at 744 Route 70 Block: 701 Lot: 7. This was previously Payless. The contact person David and his telephone number (917)680-6221. Please let me know when this is approved.

Have a great day!

Matt

Matthew F. Fagen

*Division of Inspections
Township of Brick
401 Chambers Bridge Road
Brick, NJ 08723
Phone: 732-262-1030
Fax: 732-262-2941
MFagen@twp.brick.nj.us*



APPLICATION FOR CERTIFICATE

Date Received 04/21/2021
Date Permit Issued 08/20/2021
Control # C-21-001549
Permit # 21-2202
Date Issued

IDENTIFICATION

Block 701 Lot 7 Qualifier _____
Work Site Location 744 ROUTE 70 Brick Township, NJ Contractor STEADFAST DEVELOPMENT & CONSTRUCTION
Address 315 EAST 91ST STREET 5TH FLOOR NEW YORK NY
Owner in Fee BRICKTOWN VE LLC 10128
210 ROUTE 4 EAST PARAMUS NJ 07652 Telephone (212) 861-6100
Telephone (201) 571-3544 Lic. No. or Bldrs. Reg. No. _____
Federal Employee. No. _____

ACTION

- ☒ CERTIFICATE OF OCCUPANCY
☐ CERTIFICATE OF CONTINUED OCCUPANCY
☐ LEAD HAZARD ABATEMENT CERTIFICATE OF CLEARANCE
☐ TEMPORARY CERTIFICATE OF OCCUPANCY

USE GROUP M Previous M Current

FINAL COST OF CONSTRUCTION: \$ 303000

(Include value of any new structure, all on-site improvements, built-in furnishings and fixtures and all the integral equipment exclusive of process or manufacturing equipment.)

A set of "As Built" or amended drawings is required if the building or structure deviates from the approved plans filed with the construction permit. Use space below to describe any deviations from approved plans:

If you are requesting a Temporary Certificate of Occupancy, please explain why in the space below.

DESCRIPTION OF WORK/USE:

Alteration TENANT FIT UP - SEPHORA

I hereby attest that to the best of my knowledge, the completed project meets the conditions of construction permit and all prior approvals, and all work has been completed substantially in accordance with the code and with those portions of the plans and specifications controlled by the code, with any substantial deviations noted. Incomplete items listed on a Temporary Certificate of Occupancy will be complete by the date on the

SIGNED: _____

Owner/Agent

- ☐ OWNER
☐ AGENT



PERMIT UPDATE

Date Update Issued
Control # C-21-001549+E
Permit # 21-2202+E

IDENTIFICATION Block: 701 Lot: 7 Qualifier
Work Site Location: 744 ROUTE 70 Brick Township, NJ Contractor STEADFAST DEVELOPMENT & CONSTRUCTION
Address 315 EAST 91ST STREET 5TH FLOOR NEW YORK NY
Owner in Fee BRICKTOWN VE LLC 10128
210 ROUTE 4 EAST PARAMUS NJ 07652 Telephone: (212) 861-6100
Telephone: (201) 571-3544 Lic. No. or Bldrs. Reg. No.
Federal Employee. No.

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:

TENANT FIT UP - SEPHORA UPDATE +E - DATA & NETWORK SYSTEM

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 \$6,000

Construction Official

Date

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$0
Electrical	\$150
Plumbing	\$0
Fire Protection	\$0
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$11
CO Fee	
Other	\$0
Total	\$161
Check No.	
Cash	\$0
Credit	\$0
Collected By	

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:

- 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.
- Foundations and all walls up to grade level prior to back filling.
- 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.
- 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.



PERMIT UPDATE

Date Update Issued 11/22/21
Control # C-21-001549+D
Permit # 21-2202+D

IDENTIFICATION Block: 701 Lot: 7 Qualifier _____
Work Site Location: 744 ROUTE 70 Brick Township, NJ Contractor VECTOR SECURITY
Address 13555 WELLINGTON CENTER CIRCLE GAINESVILLE
Owner in Fee BRICKTOWN VF LLC VA 20155
210 ROUTE 4 EAST PARAMUS NJ 07652 Telephone: (732) 259-8457
Lic. No. or Bldrs. Reg. No. 34BA00040300
Telephone: (201) 571-3544 Federal Employee No. _____

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:

TENANT FIT UP - SEPHORA...UPDATE +D - ALARMS

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 \$3,500

D. J. Jarama
Construction Official

11/22/21
Date

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$0
Electrical	\$150
Plumbing	\$0
Fire Protection	\$0
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$7
CO Fee	
Other	\$0
Total	\$157
Check No.	
Cash	\$0
Credit	\$0
Collected By	

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.



State of New Jersey

**BURGLAR ALARM
LICENSE**

34BA00040300

EXPIRES: 08/31/2022

DOB: 03/24/1956



DANIEL A CHIONCHIO



New Jersey Office of the Attorney General
Division of Consumer Affairs
Board of Examiners of Electrical Contractors

TELECOMMUNICATIONS

Limited Wiring Exemption*

Issued to:

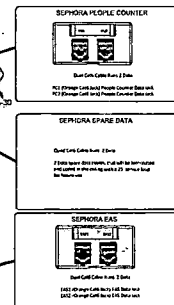
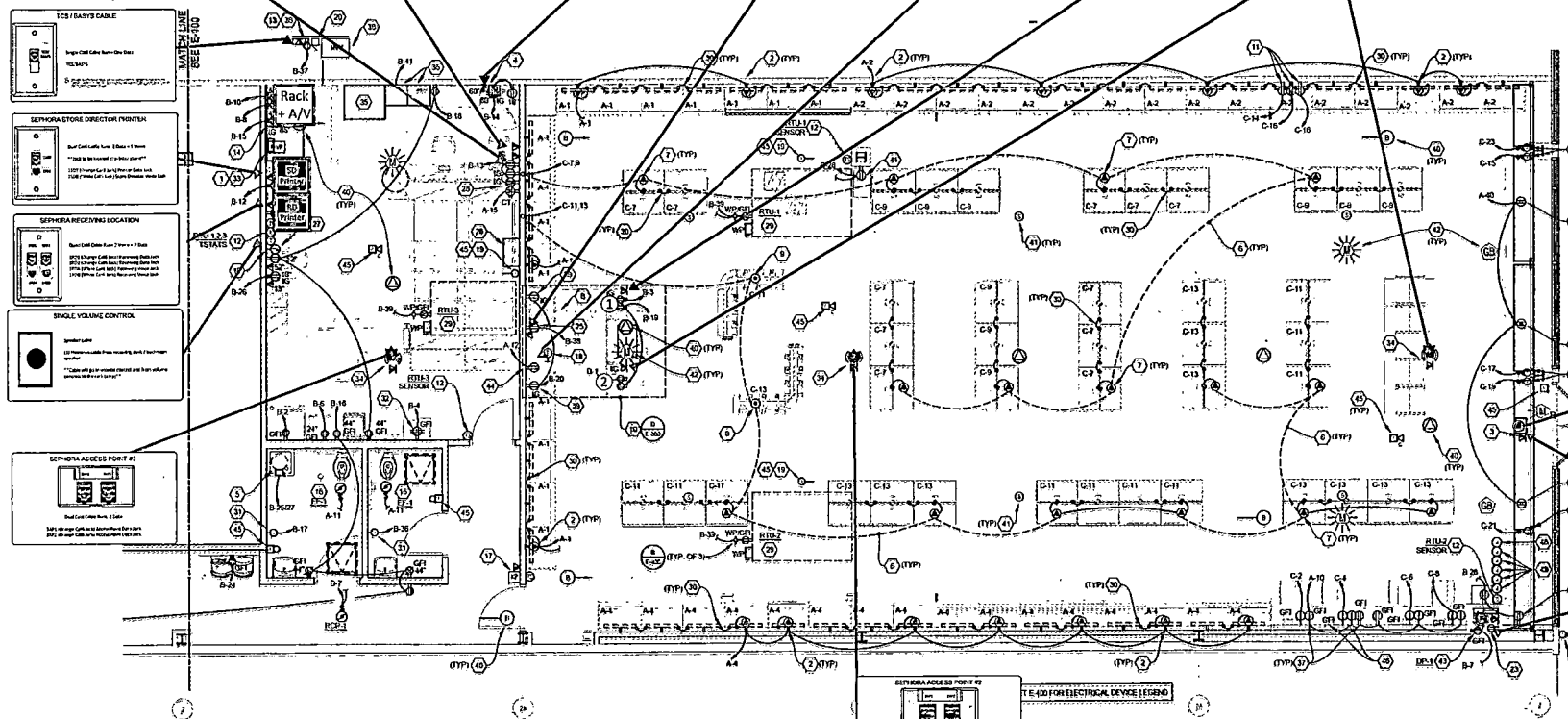
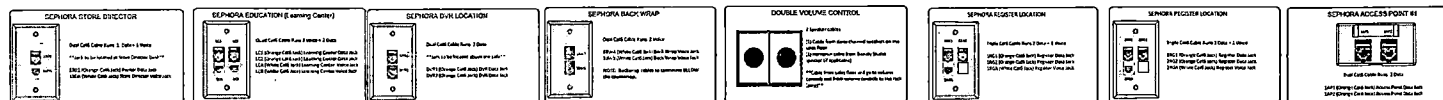
Red Iron Technologies, LLC
10 Westminister Drive
Parsippany, NJ 07054

[Signature]
Signature of holder

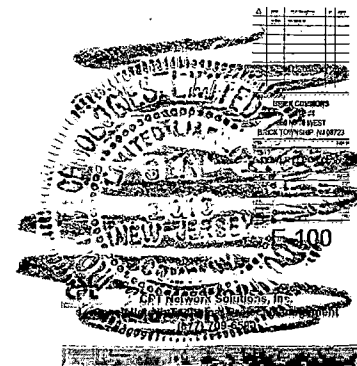
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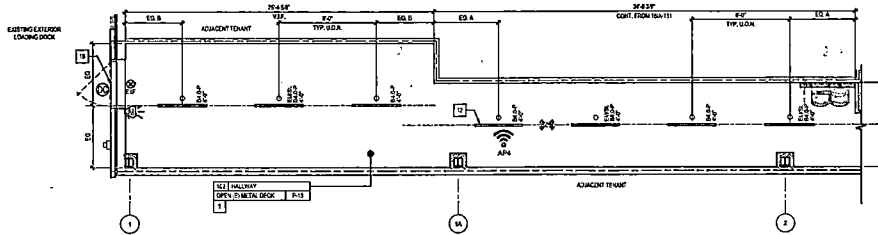
Exemption No.

Nichcole



CONSTRUCTION NOTES
[2] 1-1/2" Conduits needed for Register Cash Wrap
3/4" Conduits needed for all Back Stage and remaining On Stage locations
Pull Strings required for all conduit/stub up locations
SEE SHEET E4.0 FOR ELECTRICAL DEVICE LEGEND
REFER TO E1.1 FOR GENERAL AND CODED NOTES





NOTE: GC TO INSTALL UNISTRUT AS SHOWN FOR ALL PENDANT MOUNTED EQUIPMENT INCLUDING LIGHTING, L.P. AND L.T. EQUIPMENT. SEE A-002 FOR PENDANT MOUNTED EQPT DETAILS.

O'NEIL LANGAN ARCHITECTS

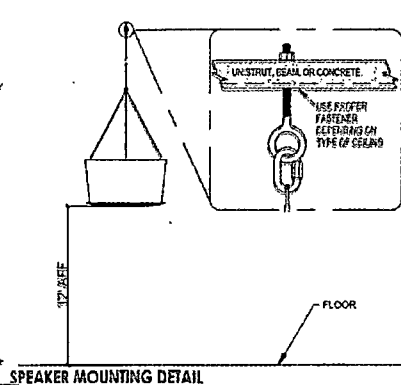
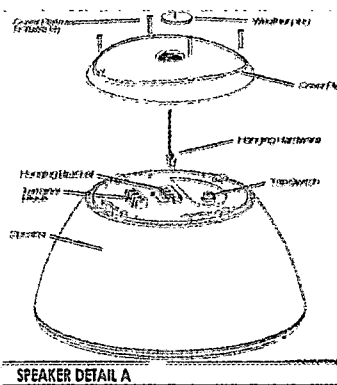
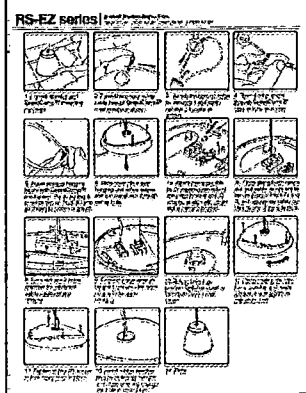
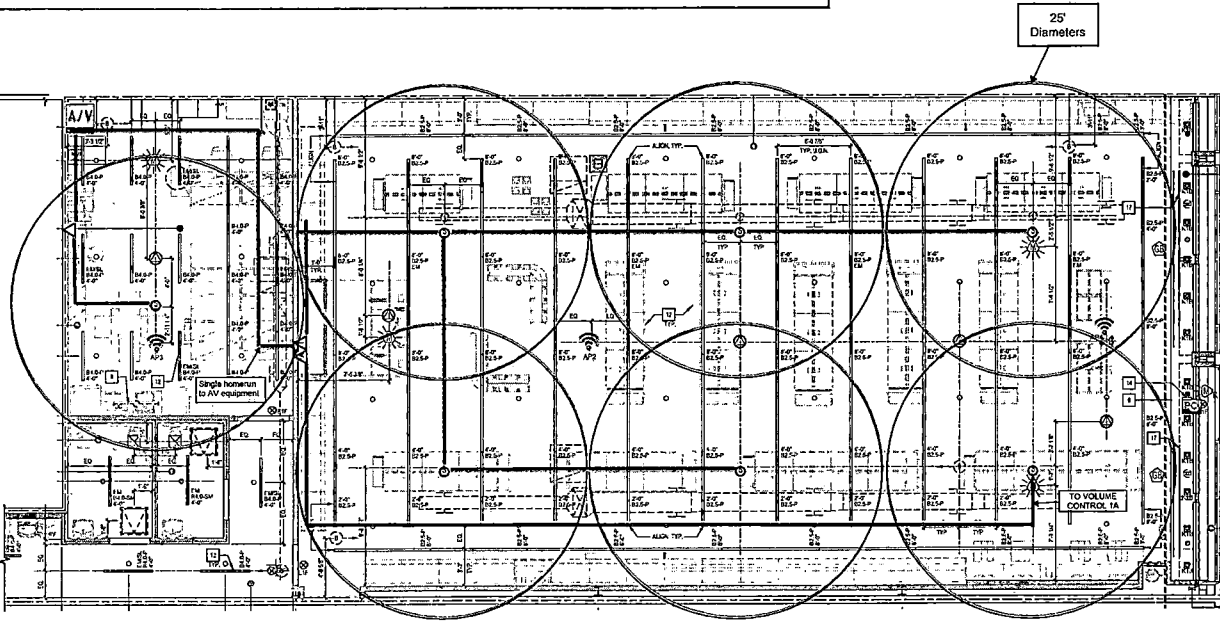
☒ Approved
☒ Approved As Noted
☐ Review & Re-submit

☐ Rejected
☐ Information Only
☐ Rejected & Only

Revised only for general compliance with the project requirements indicated in Contract Documents, and for compliance with the project design intent. This revision does not release the Contractor from responsibility for errors or omissions in design or construction. The Contractor is responsible for compliance with all requirements of the Contract Documents, and for the safety and health of all personnel on the site. This revision does not constitute a warranty, method, technique, or procedure of construction, or safety, or any other project requirement, which shall be the responsibility of the Contractor.

Date: 05/04/2021 Revised By: Elaine Jang

APPROVED
By: rebecca esk at 8:33 am, May 05, 2021



Device	Icon	Total
Pendant Speaker	⊙	7
Lay in Speaker	Ⓢ	1
25 W VC	△	2
100 W VC	△	1
AV Rack	A/V	1
People Counter	Ⓢ	1
AP	Ⓢ	4

All Speakers to be tapped at 4 walls

Speaker Mounting Instructions

- 1) Pendant speakers must be mounted from Unistrut light to structure, provided by the GC and centered between light trusses.
- 2) Bottom of the speaker should be mounted at 12" AFF in line with paint lines. Hanging cables are included in the pendant mount kit.
- 3) Speaker wire is to be neatly concealed along the beams with no visible wire loops.
- 4) Speaker wire is to be wrapped down the length of the hanging cable for a neat and professional installation.

SEPHORA

525 MARKET STREET, 32ND FLOOR
SAN FRANCISCO, CA 94105

CPT Network Solutions, Inc.
Specialists in Technical Project Management
(877) 709-6590



PROJECT LOCATION
BRICK COMMONS SUITE #4
BRICK TOWN, NJ 08723





CONSTRUCTION PERMIT

Date Issued 8/20/21
Control # C-21-001549
Permit # 21-2202

IDENTIFICATION Block: 701 Lot: 7 Qualifier _____
Work Site Location: 744 ROUTE 70 Brick Township, NJ Contractor STEADFAST DEVELOPMENT & CONSTRUCTION
Address 315 EAST 91ST STREET 5TH FLOOR NEW YORK NY
Owner in Fee BRICKTOWN VF LLC Address 10128
210 ROUTE 4 EAST PARAMUS NJ 07652 Telephone: (212) 861-6100
Telephone: (201) 571-3544 Lic. No. or Bldrs. Reg. No. _____
Federal Employee No. _____

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:

TENANT FIT UP - SEPHORA

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 \$303,000

D. Nuorman
Construction Official

8/17/21
Date

U.C.C. F170
equiv (rev 1/04)

1. WHITE - INSPECTOR

2. CANARY - OFFICE

3. PINK - TAX ASSESSOR

4. GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$6,250
Electrical	\$2,040
Plumbing	\$460
Fire Protection	\$116
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$576
CO Fee	\$150.00
Other	\$0
Total	\$9,592
Check No.	<u>2598</u>
Cash	\$0
Credit	\$0
Collected By	_____

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.

BUILDING	\$6,250.00
ELECTRICAL	\$2,040.00
PLUMBING	\$460.00
FIRE	\$116.00
NO	\$576.00
CO	\$150.00
CHECK	\$9,592.00

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.



PERMIT UPDATE

Date Update Issued 8/20/21
 Control # C-21-001549+A
 Permit # +A
21-2202

IDENTIFICATION Block: 701 Lot: 7 Qualifier _____
 Work Site Location: 744 ROUTE 70 Brick Township, NJ Contractor STEADFAST DEVELOPMENT & CONSTRUCTION
 Address 315 EAST 91ST STREET 5TH FLOOR NEW YORK NY
 Owner in Fee BRICKTOWN VE LLC 10128
210 ROUTE 4 EAST PARAMUS NJ 07652 Telephone: (212) 861-6100 / (917) 324-0209
 Telephone: (201) 571-3544 Lic. No. or Bldrs. Reg. No. _____
 Federal Employee No. _____

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:

TENANT FIT UP - SEPHORA ...UPDATE +A- SPRINKLERS

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 \$17,000

D. Newman
 Construction Official

8/17/21
 Date

U.C.C. F170
 equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$0
Electrical	\$0
Plumbing	\$0
Fire Protection	\$175
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$32
CO Fee	
Other	\$0
Total	<u>2</u> \$207
Check No.	<u>0218</u>
Cash	\$0
Credit	\$0
Collected By	

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.

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

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



PERMIT UPDATE

Date Update Issued 8/20/21
Control # C-21-001549+B
Permit # +B

21-2202

IDENTIFICATION Block: 701 Lot: 7 Qualifier: 4
Work Site Location: 744 ROUTE 70 Brick Township, NJ Contractor: STEADFAST DEVELOPMENT & CONSTRUCTION
Address: 315 EAST 91ST STREET 5TH FLOOR NEW YORK NY
Owner in Fee: BRICKTOWN VE LLC 10128
210 ROUTE 4 EAST PARAMUS NJ 07652 Telephone: (212) 861-6100 / (917) 324-0209
Telephone: (201) 571-3544 Lic. No. or Bldrs. Reg. No. _____
Federal Employee No. _____

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:

TENANT FIT UP - SEPHORA ...UPDATE +B - ALARMS

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 \$14,000

D. Newman
Construction Official

8/17/21
Date

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$0
Electrical	\$150
Plumbing	\$0
Fire Protection	\$175
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$26
CO Fee	
Other	\$0
Total	\$351
Check No.	<u>2097</u>
Cash	\$0
Credit	\$0
Collected By	

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.

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- 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:

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

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



PERMIT UPDATE

Date Update Issued 8/20/21
Control # C-21-001549+C
Permit # +C

IDENTIFICATION Block: 701 Lot: 7 Qualifier _____
Work Site Location: 744 ROUTE 70 Brick Township NJ Contractor STEADFAST DEVELOPMENT & CONSTRUCTION
Address 315 EAST 91ST STREET 5TH FLOOR NEW YORK NY
Owner in Fee BRICKTOWN VF LLC Address 10128
210 ROUTE 4 EAST PARAMUS NJ 07652 Telephone: (212) 861-6100 / (917) 324-0209
Telephone: (201) 571-3544 Lic. No. or Bldrs. Reg. No. _____
Federal Employee No. _____

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:

TENANT FIT UP - SEPHORA ... UPDATE +C - SPRINKLER HEADS

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 \$15,800

D. V. Newman Jr.
Construction Official

8/17/21
Date

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$0
Electrical	\$0
Plumbing	\$0
Fire Protection	\$116
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$30
CO Fee	
Other	\$0
Total	\$146
Check No.	<u>2298</u>
Cash	\$0
Credit	\$0
Collected By	

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.

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

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

RECEIVING CLERK _____
DATE REC'D _____

ZONING PERMIT APPLICATION

PERMIT # 78-21-01183
DATE ISSUED 8/20/21

BLOCK: 701 LOT: 7 QUALIFIER: _____ SITE ADDRESS: 660 NJ-70 West, Brick Township, NJ
Suite #4 08723

IDENTIFICATION:

1. NAME OF OWNER IN FEE: Urban Edge Properties

COMPLETE ADDRESS: 210 Route 4 East

PHONE # (201) 571-3544 EMAIL: _____

2. NAME OF APPLICANT: Katy Asgari

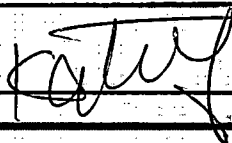
APPLICANT ADDRESS: 8370 Wilshire Blvd #330
Beverly Hills, CA

PHONE # 818-3594147 EMAIL: katy@permitadvisors.com

3. RESPONSIBLE PERSON FOR WORK: Steadfast Development/GC

PHONE # (212) 861-6100 FAX# _____

4. SIGNATURE OF APPLICANT: _____



FOR OFFICE USE ONLY

FEE SUMMARY:

APPLICATION FEE: \$ 75-

OTHER: \$ _____

TOTAL: \$ 75-

REQUIRED BY APPLICANT

RESIDENTIAL: _____

COMMERCIAL: _____

EXISTING USE: Dayless

PROPOSED USE: Sephora

BOARD APPROVAL: _____ PB _____ ZB _____

RESOLUTION#: _____

APPROVAL DATE: _____

PROJECT DESCRIPTION: (PLEASE CHECK APPLICABLE WORK & DESCRIBE)

*NEW BUILDING: _____ *ADDITION: _____ *ALTERATION: ☒ *PORCH: _____ *DECK: _____

POOL: ABOVE GROUND: ☒ IN GROUND: _____ FENCE: HEIGHT: _____ TYPE: _____

HEIGHT: _____ (*APPLICABLE)

OTHER: _____

DESCRIPTION: Tenant Improvement - Mercantile

ZONING REVIEW: _____

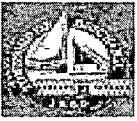
DATE REVIEWED: 4-28-21

DATE DENIED: _____

DATE APPROVED: 4-28-21

INTLS: ce

(SEE BACK)



Brick Township
401 Chambers Bridge Rd.
Brick, NJ 08723
(732) 262-1041

Date Issued: _____
Application Number: ZA-21-00613
Application Date: 4/22/2021
Project Number: _____
Permit Number: _____
Fee: \$75.00

Zoning Permit

Worksite **744 ROUTE 70**
Location: **Brick Township, NJ 08723**

Owner: **Urban Edge Properties**

Applicant: **STEADFAST DEVELOPMENT &
CONSTRUCTION**

Address: **210 ROUTE 4 EAST
PARAMUS, NJ 07652**

Address: **315 EAST 91ST STREET 5TH FLOOR
NEW YORK, NJ 10128**

Block: 701 Lot: 7 Qualifier: _____ Zone: B-3

This Certifies that an application for the issuance of a Zoning Permit has been examined.

Present Use: Retail Store

☐ Non Conforming Use

☐ Non Conforming Structure

Proposed Use: Retail Store Sephora

Work Description:

Rehabilitation, Tenant Fit-Up - Interior alterations for new tenant. Changing from Payless Shoes to "Sephora."

Additional Zoning Permit is required for additional work or signage.

Application Approved Date: 4/28/2021

Upon review it was determined that the Zoning Permit:

☒ Permitted by Ordinance

☐ Permitted by Variance approved on: _____

☐ Approved with Conditions

☐ Valid Nonconforming Use/Structure is established by

☐ Zoning Board of Adjustment

☐ Zoning Officer

Christopher J. Romano, Zoning Officer

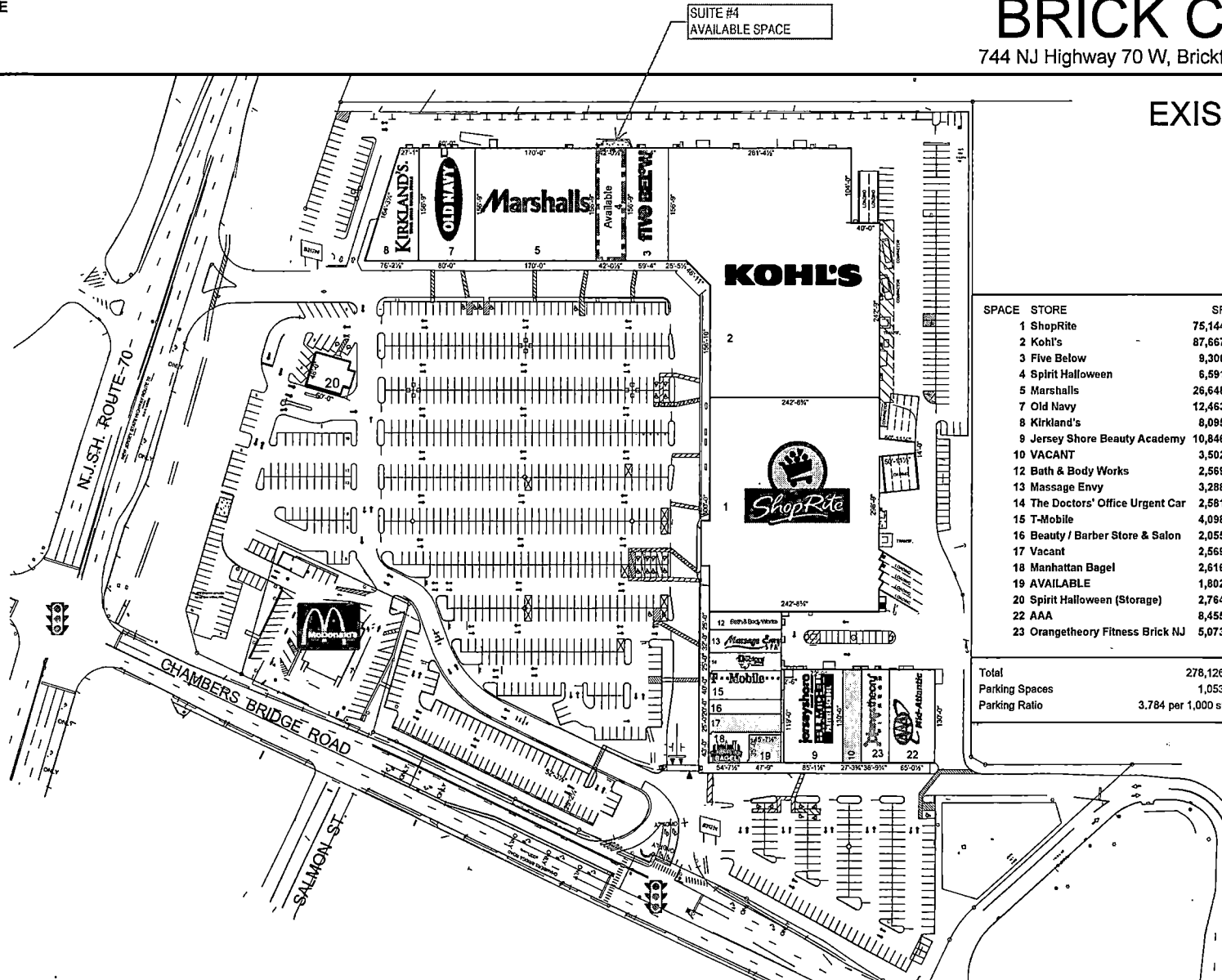
4/28/2021

Date

BRICK COMMONS

744 NJ Highway 70 W, Bricktown, NJ, 08723, Ocean County

EXISTING SITE PLAN



SPACE	STORE	SF
1	ShopRite	75,144
2	Kohl's	87,667
3	Five Below	9,300
4	Spirit Halloween	6,591
5	Marshalls	26,648
7	Old Navy	12,463
8	Kirkland's	8,095
9	Jersey Shore Beauty Academy	10,846
10	VACANT	3,502
12	Bath & Body Works	2,569
13	Massage Envy	3,288
14	The Doctors' Office Urgent Care	2,581
15	T-Mobile	4,098
16	Beauty / Barber Store & Salon	2,055
17	VACANT	2,569
18	Manhattan Bagel	2,616
19	AVAILABLE	1,802
20	Spirit Halloween (Storage)	2,764
22	AAA	8,455
23	Orangetheory Fitness Brick NJ	5,073
Total		278,126
Parking Spaces		1,053
Parking Ratio		3.784 per 1,000 sf

APPROVED FOR ZONING
4-28-21 *Tenants List*
CHRIS ROMANO, ZONING OFFICER



Interior Lighting Compliance Certificate

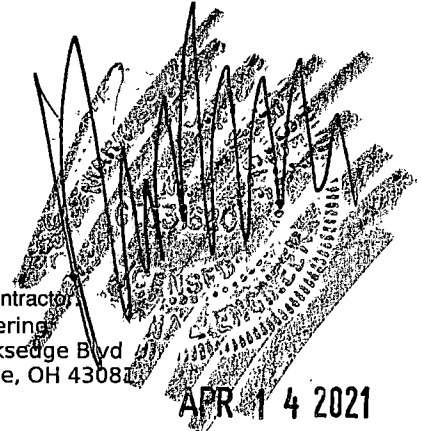
Project Information

Energy Code: 90.1 (2016) Standard
 Project Title: Sephora - Brick Commons
 Project Type: Alteration

Construction Site:
 660 NJ - 70 West
 Suite #4
 Bricktownship, NJ 08723

Owner/Agent:

Designer/Contractor:
 M Engineering
 750 Brookside Blvd
 Westerville, OH 43081



Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Retail:Sales Area	3165	1.22	3861
Allowance: Furniture, clothing, cosmetics highlighting / Fix. ID: B2.5-P	2135 (a)	1.05	2242 (b)
2-Common Space Types:Storage >=50 - <=1000 sq.ft.	504	0.46	232
3-Common Space Types:Restrooms	132	0.85	112
4-Common Space Types:Corridor/Transition <8 ft wide	680	0.66	449
Supplemental Allowed Watts (null) =			34
Total Allowed Watts =			6930

(a) Area claimed may exceed total floor area when Retail Merchandise Highlighting allowance(s) are specified.

(b) Allowance is (B x C) or the actual wattage of the fixtures given in Proposed Power section, whichever is less.

(c) Supplemental watts must be associated with retail merchandise highlighting fixtures.

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
<u>Retail:Sales Area (3165 sq.ft.)</u>				
LED 1: B2.5-P: Linear: Other:	1	494	11	5434
LED 2: K1B: Down Light: Other:	1	12	11	132
LED 6: GD: Gondola: Other:	1	40	86	Exempt
Exemption:Furniture-mounted Supplemental Task Lighting				
LED 7: WL: Wall Linear: Other:	1	47	43	Exempt
Exemption:Furniture-mounted Supplemental Task Lighting				
<u>Common Space Types:Storage >=50 - <=1000 sq.ft. (504 sq.ft.)</u>				
LED 3: B4.0-P: Linear: Other:	1	76	11	836
<u>Common Space Types:Restrooms (132 sq.ft.)</u>				
LED 4: B4.0-SM: Linear: Other:	1	8	11	88
<u>Common Space Types:Corridor/Transition <8 ft wide (680 sq.ft.)</u>				
LED 5: B4.0-P: Linear: Other:	1	40	11	440
Total Proposed Watts =				6930

Interior Lighting : Passes using retail merchandise highlighting supplemental watts.

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2016) Standard requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Nathan Hayes - Electrical Designer

Name - Title

Nathan Hayes

Signature

4-14-21

Date



COMcheck Software Version 4.1.5.1

Inspection Checklist

Energy Code: 90.1 (2016) Standard

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6] ²	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
4.2.2, 9.4.3, 9.7 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10] ²	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
8.4.3 [EL11] ²	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to the control system and displayed graphically.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
9.4.1.1 [EL1] ²	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
9.4.1.1.1 [EL2] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
9.4.1.1f [EL13] ¹	Daylight areas under skylights and roof monitors that have more than 150 W combined input power for general lighting are controlled by photocontrols.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
9.4.1.3 [EL4] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
9.6.2 [EL8] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
------------------------	--------------------------	-----------------------

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
8.7.2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
9.2.2.3 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Interior Lighting fixture schedule for values.
9.4.4 [FI20] ¹	At least 75% of all permanently installed lighting fixtures in dwelling units have ≥ 55 lm/W efficacy or a ≥ 45 lm/W total luminaire efficacy.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
--------------------------	----------------------------	-------------------------



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1030

Subcode Official Review

Date: Wednesday, July 14, 2021

To: STEADFAST DEVELOPMENT &
CONSTRUCTION
315 EAST 91ST STREET 5TH FLOOR
NEW YORK, NY 10128

RE: Building Subcode
Block: 701 Lot: 7 Qual:
744 ROUTE 70
Permit Number: Control Number: C-21-001549
Last Submit Date: Wednesday, June 16, 2021

Dear STEADFAST DEVELOPMENT & CONSTRUCTION,

Your request is hereby denied based upon the following infractions.

07/14/21 - INCOMPLETE

1.) As per Plan Pg. S-002 - SPECIAL INSPECTION, submit Statement of Special Inspections, prepared by a Registered Design Professional, and in accordance with 2018 International Building Code - New Jersey Edition, Section 1704.3.

Sincerely,

Kenneth Kiseli, Subcode Official

CC:

RESUBMIT MFP
SUBCODES Build, Fire, Plus
DATES 8/4/21



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1030

Subcode Official Review

Date: Wednesday, June 9, 2021

To: STEADFAST DEVELOPMENT &
CONSTRUCTION
315 EAST 91ST STREET 5TH FLOOR
NEW YORK, NY 10128

RE: Plumbing Subcode
Block: 701 Lot: 7 Qual:
744 ROUTE 70
Permit Number: Control Number: C-21-001549
Last Submit Date: Thursday, May 20, 2021

Dear STEADFAST DEVELOPMENT & CONSTRUCTION,

The following comments were made during the Plan Review process:

The Gas sketch does not demonstrate code compliance.

There maybe additional Loads on the gas system.

The work being performed may increase the load on the system such that the existing pipe does not meet the size required by code. Existing systems that are modified shall not require resizing as long as the load on the system is not increased and the system length is not increased even if the altered system does not meet code.

SIZING OF GAS PIPE IFGC 2018 402.4(2) Longest Length Method

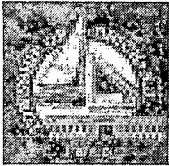
The pipe size of each section of gas piping shall be determined using the longest length of piping from the point of delivery to the most remote outlet and the load of the section.

Sincerely,

Daniel F Newman Jr , Subcode Official

CC:

RESUBMIT MFP
SUBCODES B, F, P
DATES 8/4/21



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1030

Subcode Official Review

Date: Monday, June 14, 2021

To: BRICKTOWN VF LLC
210 ROUTE 4 EAST
PARAMUS, NJ 07652

RE: Fire Subcode
Block: 701 Lot: 7 Qual:
744 ROUTE 70
Permit Number: Control Number: C-21-001549
Last Submit Date: Thursday, June 10, 2021

Dear BRICKTOWN VF LLC,

Your request is hereby denied based upon the following infractions.

- ~~1. Need permit update, plan, and specifications for the fire alarm system. Please include copy of NJ Fire Alarm installer license. *ok.*~~
- ~~2. Need permit update, plan, and specifications including hydraulic calculations for the fire sprinkler system. Please include copy of NJ fire suppression license. *ok.*~~
- ~~3. Need Carbon Monoxide detection installed as per NJAC 5:70-4.3(a) Bulletin 2017-1~~

Sincerely,

Richard Orlando, Subcode Official

CC:

RESUBMIT MFF
SUBCODES B, F, P
DATES 8/4/21



RAYMOND L. GOODSON JR., INC.
CONSULTING ENGINEERS

STRUCTURAL CALCULATIONS

FOR

Sephora Brick Commons

New Jersey

Project No.: 2015.709

Completion Date: November 30, 2020

Revisions: _____

Engineer of Record:	<u>Michael J. McLaren, P.E</u>
Project Manager:	<u>Courtney Overton</u>
Project Engineer:	<u>Courtney Overton</u>
Project Technician:	<u>John Beaman</u>

Hazards by Location

Search Information

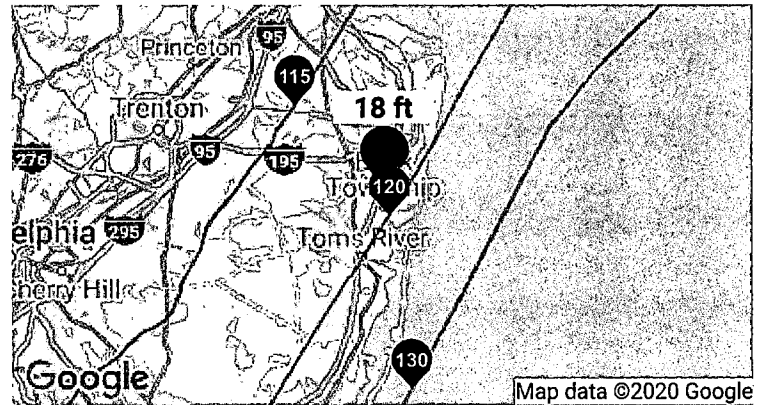
Address: 644 Route 70 &, Chambers Bridge Rd, Brick Township, NJ 08723

Coordinates: 40.0621065, -74.1436049

Elevation: 18 ft

Timestamp: 2020-11-16T20:07:43.512Z

Hazard Type: Wind



ASCE 7-16

MRI 10-Year 76 mph

MRI 25-Year 84 mph

MRI 50-Year 92 mph

MRI 100-Year 98 mph

Risk Category I 111 mph

Risk Category II 120 mph

Risk Category III **▲** 130 mph

If the structure under consideration is a healthcare facility and you are also within 1 mile of the coastal mean high water line, you are in a wind-borne debris region. If other occupancy, use the Risk Category II basic wind speed contours to determine if you are in a wind-borne debris region.

Risk Category IV **▲** 135 mph

You are in a wind-borne debris region if you are also within 1 mile of the coastal mean high water line.

ASCE 7-10

MRI 10-Year 77 mph

MRI 25-Year 87 mph

MRI 50-Year 93 mph

MRI 100-Year 100 mph

Risk Category I 111 mph

Risk Category II 122 mph

Risk Category III-IV ... **▲** 132 mph

If the structure under consideration is a healthcare facility and you are also within 1 mile of the coastal mean high water line, you are in a wind-borne debris region. If other occupancy, use the Risk Category II basic wind speed contours to determine if you are in a wind-borne debris region.

ASCE 7-05

ASCE 7-05 Wind Speed .. **▲** 112 mph

You are in a wind-borne debris region if you are also within 1 mile of the coastal mean high water line.

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are interpolated from data provided in ASCE 7 and rounded up to the nearest whole integer. Per ASCE 7, islands and coastal areas outside the last contour should use the last wind speed contour of the coastal area – in some cases, this website will extrapolate past the last wind speed contour and therefore, provide a wind speed that is slightly higher. NOTE: For queries near wind-borne debris region [https://hazards.atccouncil.org/#!/wind?lat=40.0621065&lng=-74.1436049&address=644 Route 70 %26%2C Chambers Bridge Rd%2C Brick Township%...](https://hazards.atccouncil.org/#!/wind?lat=40.0621065&lng=-74.1436049&address=644%20Route%2070%20%26%2C%20Chambers%20Bridge%20Rd%20%26%2C%20Brick%20Township%20NJ%2008723) 1/2

sea level and meters; provides a wind speed data engine; and a map for queries near a specific region. , the resulting determination is sensitive to rounding which may affect whether or not it is considered to be within a wind-borne region.

Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.

While the information presented on this website is believed to be correct, ATC and its sponsors and contributors assume no responsibility or liability for its accuracy. The material presented in the report should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability and applicability by engineers or other licensed professionals. ATC does not intend that the use of this information replace the sound judgment of such competent professionals, having experience and knowledge in the field of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the results of the report provided by this website. Users of the information from this website assume all liability arising from such use. Use of the output of

this website does not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the report.

Hazards by Location

Search Information

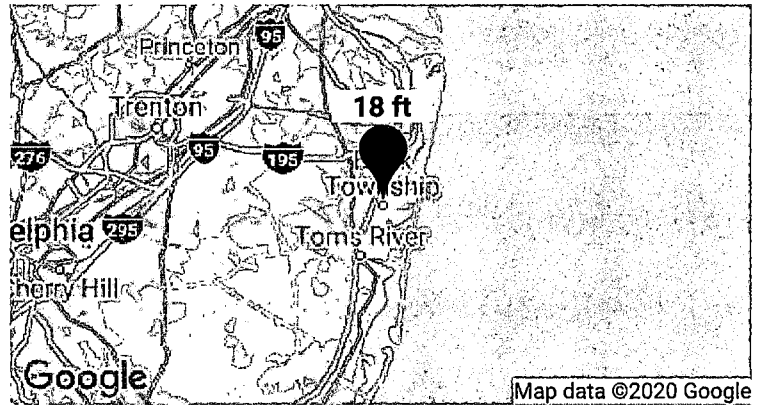
Address: 644 Route 70 &, Chambers Bridge Rd, Brick Township, NJ 08723

Coordinates: 40.0621065, -74.1436049

Elevation: 18 ft

Timestamp: 2020-11-16T20:09:53.738Z

Hazard Type: Snow



ASCE 7-16

Ground Snow Load 20 lb/sqft

ASCE 7-10

Ground Snow Load 20 lb/sqft

ASCE 7-05

Ground Snow Load 20 lb/sqft

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are interpolated from data provided in ASCE 7 and rounded up to the nearest whole integer.

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Hazards by Location

Search Information

Address: 644 Route 70 &, Chambers Bridge Rd, Brick Township, NJ 08723

Coordinates: 40.0621065, -74.1436049

Elevation: 18 ft

Timestamp: 2020-11-16T20:10:50.675Z

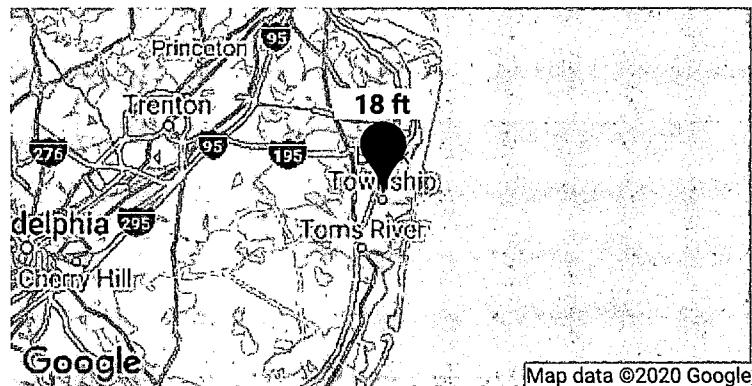
Hazard Type: Seismic

Reference ASCE7-16

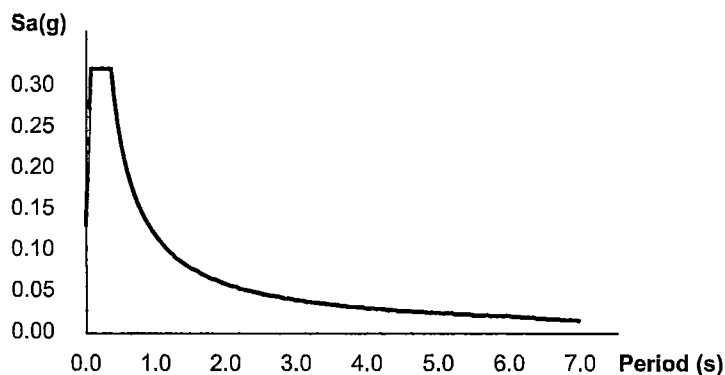
Document:

Risk Category: II

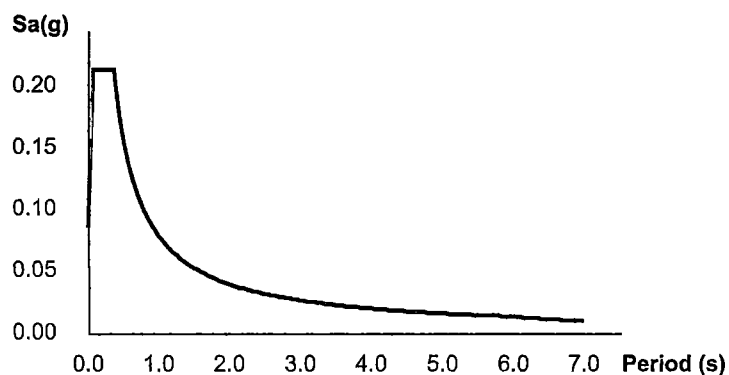
Site Class: D-default



MCER Horizontal Response Spectrum



Design Horizontal Response Spectrum



Basic Parameters

Name	Value	Description
S_S	0.2	MCE _R ground motion (period=0.2s)
S_1	0.049	MCE _R ground motion (period=1.0s)
S_{MS}	0.32	Site-modified spectral acceleration value
S_{M1}	0.118	Site-modified spectral acceleration value
S_{DS}	0.213	Numeric seismic design value at 0.2s SA
S_{D1}	0.078	Numeric seismic design value at 1.0s SA

Additional Information

Name	Value	Description
SDC	B	Seismic design category
F_a	1.6	Site amplification factor at 0.2s
F_v	2.4	Site amplification factor at 1.0s

	0.945	Coefficient of risk (0.2s)
	0.939	Coefficient of risk (1.0s)
PGA	0.114	MCE _G peak ground acceleration
F _{PGA}	1.573	Site amplification factor at PGA
PGA _M	0.179	Site modified peak ground acceleration
T _L	6	Long-period transition period (s)
SsRT	0.2	Probabilistic risk-targeted ground motion (0.2s)
SsUH	0.211	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
SsD	1.5	Factored deterministic acceleration value (0.2s)
S1RT	0.049	Probabilistic risk-targeted ground motion (1.0s)
S1UH	0.052	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
S1D	0.6	Factored deterministic acceleration value (1.0s)
PGAd	0.5	Factored deterministic acceleration value (PGA)

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are provided by the U.S. Geological Survey [Seismic Design Web Services](#).

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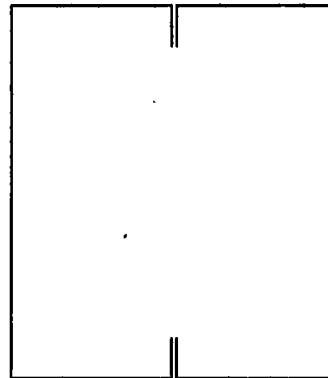


2007 North American Specification ASD
DATE: 11/16/2020

SECTION DESIGNATION: 1600S162-97 [50] (2) Boxed

Section Dimensions:

Web Height = 16.000 in
Top Flange = 1.625 in
Bottom Flange = 1.625 in
Stiffening Lip = 0.500 in
Inside Corner Radius = 0.1526 in
Punchout Width = 1.500 in
Punchout Length = 4.000 in
Design Thickness = 0.1017 in



Steel Properties:

Fy = 50.000 ksi
Fu = 65.000 ksi
Fya = 50.000 ksi

ALLOWABLE UNIFORM LOADS

INPUT PARAMETERS

Deflection Limit: L/360
Listed load multiplied by 1.00 for deflection check
Listed Allowable Loads Not Modified for Duration of Load for Strength Checks
Member Configuration: (2) BOXED MEMBERS
Shear and Web Crippling Capacity Based on Unpunched Web
End Bearing Length for Web Crippling = 1 in

Flexural Bracing: NONE

TOTAL ALLOWABLE UNIFORM LOADS (lb/ft)

	SPAN LENGTH (ft)		
	<u>42.00</u>	<u>42.00</u>	<u>42.00</u>
Without Web			
Stiffeners	64.6	64.6	64.6
With Web			
Stiffeners	64.6	64.6	64.6

$$1\text{ psf} + 2.5\text{ psf} + 1\text{ psf} = 4.5\text{ psf} \times 10\text{ ft} = 45\text{ plf} < 64.6\text{ plf}$$

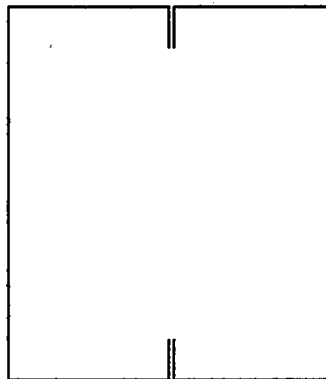


2007 North American Specification ASD
 DATE: 11/16/2020

SECTION DESIGNATION: 600S162-68 [50] (2) Boxed

Section Dimensions:

Web Height = 6.000 in
 Top Flange = 1.625 in
 Bottom Flange = 1.625 in
 Stiffening Lip = 0.500 in
 Inside Corner Radius = 0.1070 in
 Punchout Width = 1.500 in
 Punchout Length = 4.000 in
 Design Thickness = 0.0713 in



Steel Properties:

Fy = 50.000 ksi
 Fu = 65.000 ksi
 Fya = 56.625 ksi

ALLOWABLE UNIFORM LOADS

INPUT PARAMETERS

Deflection Limit: L/360
 Listed load multiplied by 1.00 for deflection check
 Listed Allowable Loads Not Modified for Duration of Load for Strength Checks
 Member Configuration: (2) BOXED MEMBERS
 Shear and Web Crippling Capacity Based on Unpunched Web
 End Bearing Length for Web Crippling = 1 in

Flexural Bracing: NONE

TOTAL ALLOWABLE UNIFORM LOADS (lb/ft)

	SPAN LENGTH (ft)		
	<u>4.50</u>	<u>16.50</u>	<u>19.50</u>
Without Web Stiffeners	812.8	68.6	41.5
With Web Stiffeners	2598.6	68.6	41.5

$$1\text{psf}+1\text{psf}+1\text{psf}=3\text{psf}\times 10\text{ft}=30\text{plf}<41.5\text{ plf}$$

ClarkWestern Building Systems
 CW Tech Support: (888) 437-3244
 clarkwestern.com

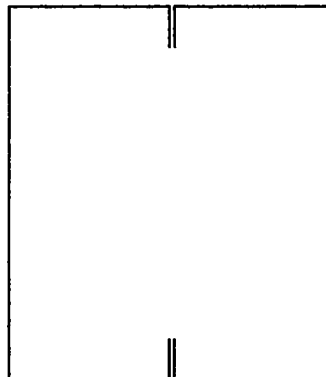
Post

2007 North American Specification ASD
 DATE: 11/30/2020

SECTION DESIGNATION: 362S162-54 [50] (2) Boxed

Section Dimensions:

Web Height =	3.625 in
Top Flange =	1.625 in
Bottom Flange =	1.625 in
Stiffening Lip =	0.500 in
Inside Corner Radius =	0.0849 in
Punchout Width =	1.500 in
Punchout Length =	4.000 in
Design Thickness =	0.0566 in



Steel Properties:

Fy =	50.000 ksi
Fu =	65.000 ksi
Fya =	50.000 ksi

ALLOWABLE AXIAL LOADS

INPUT PARAMETERS

Overall Stud Length = 11 ft
 Load has not been modified for load type or duration
 Member Configuration: (2) BOXED MEMBERS

TOTAL ALLOWABLE AXIAL LOADS (lb)

<u>WEAK AXIS BRACING</u>	<u>MAXIMUM KL/r</u>	<u>CONCENTRIC LOADING</u>
NONE	108 <200	8049
MID Pt	92	9936
THIRD Pt	92	9936

Note: For (2) Boxed Members, Individual Members
 Must be Adequately Interconnected

$$45\text{plf} \times 42\text{ft} = 1890\text{lb} < 8049\text{lb}$$

Fasteners (Screws and Welds)

Screw Table Notes

1. Screw spacing and edge distance shall not be less than 3 x D. (D = Nominal screw diameter)
2. The allowable screw values are based on the steel properties of the members being connected, per AISI section E4.
3. When connecting materials of different metal thicknesses or yield strength, the lowest applicable values should be used.
4. Screw strength needs to be verified by the screw manufacturer.
5. Values include a 3.0 factor of safety.
6. Applied loads may be multiplied by 0.75 for seismic or wind loading, per AISI A 5.1.3.
7. Penetration of screws through joined materials should not be less than 3 exposed threads. Screws should be installed and tightened in accordance with screw manufacturer's recommendations.
8. Values based on a tensile to yield steel property ratio of 1.08.

Allowable Loads for Screw Connections

Mil	Design Thickness in.	Sheet Properties		#6 Screw		#8 Screw		#10 Screw		#12 Screw	
		Yield ksi	Tensile ksi	Shear lbs.	Pullout lbs.	Shear lbs.	Pullout lbs.	Shear lbs.	Pullout lbs.	Shear lbs.	Pullout lbs.
18	0.0188	33	36	48	26	52	31	56	36	60	41
27	0.0283	33	36	88	39	96	47	104	54	110	62
30	0.0312	33	36	102	43	111	52	120	60	128	68
33	0.0346	33	36	119	48	130	57	140	66	149	75
43	0.0451	33	36	178	63	194	75	208	87	222	98
54	0.0566	33	36	250	79	272	94	293	109	312	123
68	0.0713	33	36	316	99	375	118	414	137	441	156
97	0.1017	33	36	450	142	535	168	620	195	705	222
54	0.0566	50	54	378	120	412	142	444	165	473	187
68	0.0713	50	54	478	151	568	179	627	207	669	236
97	0.1017	50	54	682	215	811	255	939	296	1068	336

Weld Table Notes

1. Weld capacities based on AISI, section E2
2. When connecting materials of different metal thicknesses or yield strength, the lowest applicable values should be used.
3. Values include a 2.5 factor of safety.
4. Applied loads may be multiplied by 0.75 for seismic or wind loading per AISI A 5.1.3.
5. Values based on a tensile to yield steel property ratio of 1.08.

Allowable Loads for Fillet Welds and Flare Groove Welds

Mil	Design Thickness in.	Steel Properties		E60XX Electrodes lbs/in
		Yield ksi	Tensile ksi	
43	0.0451	33	36	482
54	0.0566	33	36	605
68	0.0713	33	36	762
97	0.1017	33	36	1087
43	0.0451	50	54	731
54	0.0566	50	54	917
68	0.0713	50	54	1155
97	0.1017	50	54	1648



3.2.3 X-U Universal Knurled Shank Fasteners

Allowable Tensile Pullover and Shear Bearing Load Capacities for Steel Framing with X-U Powder-Actuated Fasteners^{1,2,3,4}

Fastener Description	Fastener	Head Dia. in. (mm)	Sheet Steel Thickness													
			14 ga.		16 ga.		18 ga.		20 ga.		22 ga.		24 ga.		25/26 ga.	
			Tension lb (kN)	Shear lb (kN)	Tension lb (kN)	Shear lb (kN)	Tension lb (kN)	Shear lb (kN)	Tension lb (kN)	Shear lb (kN)	Tension lb (kN)	Shear lb (kN)	Tension lb (kN)	Shear lb (kN)	Tension lb (kN)	Shear lb (kN)
0.157" shank with or w/o plastic washers or MX collation	X-U	0.322 (8.2)	825 (3.67)	1,085 (4.83)	685 (3.05)	720 (3.20)	490 (2.18)	525 (2.34)	360 (1.60)	445 (1.98)	300 (1.33)	330 (1.47)	205 (0.91)	255 (1.13)	120 (0.53)	145 (0.64)

1 Allowable load values are based on a safety factor of 3.0 in accordance with the AISI S100.

2 Allowable pullover capacities of sheet steel should be compared to allowable fastener tensile load capacities in concrete, steel, or masonry to determine controlling resistance load.

3 Allowable shear load bearing capacities of sheet steel should be compared to allowable fastener shear capacities in concrete, steel or masonry to determine controlling resistance load.

4 Data is based on the following minimum sheet steel properties, $F_y = 33$ ksi, $F_u = 45$ ksi (ASTM A653 material).

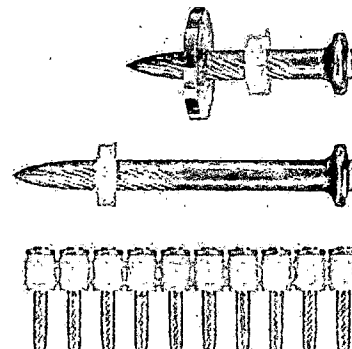
3.2.3.4 Ordering Information

5psf*2ft*10ft=100lb<720lb OKAY

Fastener Description	Shank Length in. (mm)	Shank Ø in. (mm)	Washer Ø	Packaging Qty
X-U 16	5/8 (16)	0.157 (4.0)	Plastic 8 mm or collated	100 pcs / box
X-U 19	3/4 (19)	0.157 (4.0)	Plastic 8 mm or collated	100 pcs / box
X-U 22	7/8 (22)	0.157 (4.0)	Plastic 8 mm or collated	100 pcs / box
X-U 27	1 (27)	0.157 (4.0)	Plastic 8 mm or collated	100 pcs / box
X-U 32	1-1/4 (32)	0.157 (4.0)	Plastic 8 mm or collated	100 pcs / box
X-U 37	1-1/2 (37)	0.157 (4.0)	Plastic 8 mm or collated	100 pcs / box
X-U 42	1-5/8 (42)	0.157 (4.0)	Plastic 8 mm or collated	100 pcs / box
X-U 47	1-7/8 (47)	0.157 (4.0)	Plastic 8 mm or collated	100 pcs / box
X-U 52	2 (52)	0.157 (4.0)	Plastic 8 mm or collated	100 pcs / box
X-U 57	2-1/4 (57)	0.157 (4.0)	Plastic 8 mm or collated	100 pcs / box
X-U 62	2-1/2 (62)	0.157 (4.0)	Plastic 8 mm or collated	100 pcs / box
X-U 72	2-7/8 (72)	0.157 (4.0)	Plastic 8 mm or collated	100 pcs / box

Fastener Description	Shank Length in. (mm)	Shank Ø in. (mm)	Washer Ø	Packaging Qty
X-U 22 P8 S15	7/8 (22)	0.157 (4.0)	Plastic 8 mm & Steel 15 mm	100 pcs / box
X-U 27 P8 S15	1 (27)	0.157 (4.0)	Plastic 8 mm & Steel 15 mm	100 pcs / box
X-U 32 P8 S15	1-1/4 (32)	0.157 (4.0)	Plastic 8 mm & Steel 15 mm	100 pcs / box
X-U 32 P8 S36	1-1/4 (32)	0.157 (4.0)	Plastic 8 mm & Steel 36 mm	100 pcs / box
X-U 72 P8 S36	2-7/8 (72)	0.157 (4.0)	Plastic 8 mm & Steel 36 mm	100 pcs / box

Fastener Description	Shank Length in. (mm)	Shank Ø in. (mm)	Washer Ø	Packaging Qty
X-U 16 P8 TH	5/8 (16)	0.157 (4.0)	8 mm plastic & metal "tophat"	100 pcs / box
X-U 19 P8 TH	3/4 (19)	0.157 (4.0)	8 mm plastic & metal "tophat"	100 pcs / box
X-U 27 P8 TH	1 (27)	0.157 (4.0)	8 mm plastic & metal "tophat"	100 pcs / box





TRANSMITTAL

April 15, 2021

FROM:

Katy A
Permit Advisors
8370 Wilshire Blvd Suite 330
Beverly Hills, CA 90212
(818)359 - 4147

TO:

Permitting Staff
Township of Brick
401 Chambers Bridge Rd
Brick Brick, NJ 08723
(732) 262-1030

gauge

RE: Sephora – The Brick Commons

Project Address: *660-NJ* — 70 W, Bricktown, NJ 08723 *Suite #4*

Please find the following in the attached package:

- (2) sets of complete plans (AMEPS), raised S/S
- (2) sets of Structural *calcs* — *all light gauge framing - No steel*
- (3) Electrical Subcode Application S/S
- (3) Building Subcode Application S/S
- (3) Plumbing Subcode Application S/S
- (3) Fire Protection Subcode Application S/S
- (3) Construction Permit application S/S
- (2) sets of lighting conchecks, raised seal & signed
- (1) zoning application — signed

Dear Permitting Staff,

Please find the above items for submittal. Should you have any questions or concerns, please feel free to contact me at (818)359 - 4147 or email me at Katy@permitadvisors.com

Regards,

Katy A.

ENGINEERING PERMIT APPLICATION

RECEIVING CLERK: _____

PERMIT #: _____

BLOCK: _____ LOT: _____ ADDRESS: Suite #4, Brick Commons 660 NJ-70 West**IDENTIFICATION:**1. WORK SITE ADDRESS: Sephora Suite #4, Brick Commons 660 NJ-70 West2. NAME OF OWNER IN FEE: Urban Edge PropertiesADDRESS: 210 Route 4 East, Paramus, NJ 07652 PHONE #: () 201-571 - 3544

FAX #: () _____

3. PRINCIPAL CONTRACTOR: Steadfast Development and ConstructionADDRESS: 315 East 91st Street, 5th Floor PHONE #: () 212- 861 - 6100New York, NY 10125

FAX #: () _____

4. ARCHITECT OR ENGINEER: O'Neil ArchitectADDRESS: 15 West 37th Street 15th Floor | PHONE: # () 516-241-6589
New York, NY 100185. RESPONSIBLE PERSON FOR WORK: GC - Steadfast Development and Construction
Curt ReisADDRESS: 315 East 91st Street, 5th Floor, New York, NY 10128PHONE #: () 917-836-3482 FAX #: () _____ E-MAIL: cr@steadfastbuild.comPROJECT DESCRIPTION: ☐ GRADING/CLEARING ☐ ROAD OPENING☐ SOIL REMOVAL/FILL ☐ RETAINING WALL ☐ POOL☐ BULKHEAD/DOCK ☐ DWELLING ☐ TREE REMOVAL _____☒ OTHER Tenant Improvement

LENGTH: _____ WIDTH: _____ HEIGHT: _____

FEE SUMMARY:

APPLICATION FEE: \$ _____

REVIEW FEE: \$ _____

INSPECTION FEE: \$ _____

OTHER _____: \$ _____

BOND(S): \$ _____

TOTAL: \$ _____

SPECIAL CONDITIONS:

OCEAN COUNTY SOILS: _____

DRAINAGE EASEMENTS: _____

UTILITY EASEMENTS: _____

CONSERVATION EASEMENTS: _____

FEMA REQUIREMENTS: _____

D.E.P. PERMITS: _____

BOARD APPROVAL: ☐ PB ☐ ZB

APPLICATION NUMBER: _____

APPROVED DATE: _____

ENGINEERING REVIEW:

RECEIVED: _____ DATE REJECTED: _____ DATE APPROVED: _____ INITIALS: _____

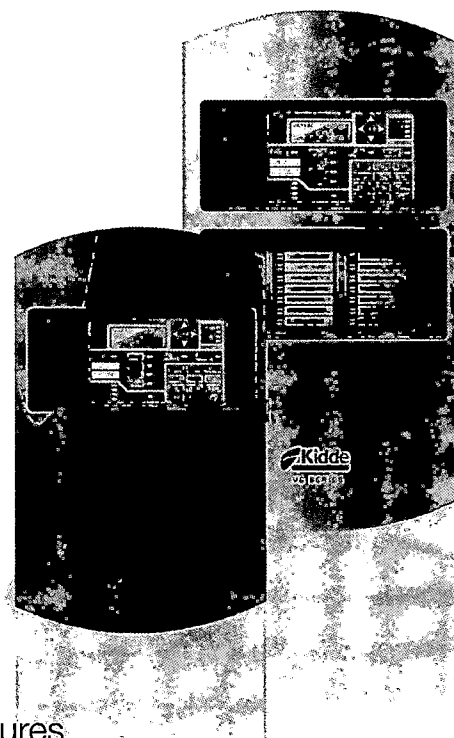




Technology that saves lives

Intelligent Fire Alarm Systems

VS1, VS4



FDNY
COA 6229



7165-1657:
0244



Overview

Kidde brand intelligent life safety systems offer the power of high-end intelligent processing in configurations that deliver uncomplicated solutions for small to mid-sized applications. With intelligent detection, electronic addressing, automatic device mapping, optional Ethernet® connectivity, and a full line of easily-configured option cards and modules, these flexible systems offer versatility that benefits building owners and contractors alike.

The VS1 provides one Class A or Class B intelligent device loop that supports up to 64 device addresses, and two Class B Notification Appliance Circuits (NACs). Optional Class A device wiring is available with the use of a module.

The VS4 provides one Class A or Class B intelligent device loop that supports up to 250 device addresses. Loop controller modules may be added in combination to expand total system capacity in 250-point increments to up to 1,000 device addresses. VS4 panels include four NACs that may be wired for either Class A or Class B operation.

The RZ116-2 module adds even more capacity to VS installations by adding up to 16 conventional device circuits and two additional notification appliance circuits. This makes them ideal retrofit solutions that can accommodate new intelligent detectors, as well as existing conventional devices.

VS Series supports a wide range of high-end features, including:

- Intelligent modules, detectors, and bases
- GSA-REL Releasing Modules
- R-Series remote annunciators
- Fully integrated CO detection using KI Series of detectors including distinct audible signaling

Features

- Auto-programming reduces installation time
- Supports 10-year carbon monoxide detectors
- Form C contacts for alarm and trouble, Form A for supervisory
- Electronic addressing with automatic device mapping
- Optional Ethernet port for diagnostics, programming and a variety of system reports
- Supports next generation
- Two programmable switches with LEDs and custom labeling
- Supports Genesis horn silence over two wires, and UL 1971-compliant strobe synchronization
- Supports GSA-REL releasing module for fire suppression
- Class B or Class A wiring
- Ground fault detection by module
- Supports up to eight serial annunciators, (LCD, LED-only, and graphic interface)
- Can use existing wiring for most retrofit applications
- Upload/download remotely or locally
- Two-level maintenance alert reporting
- Pre-alarm and alarm verification by point
- Adjustable detector sensitivity
- 4 x 20 character backlit LCD display
- Optional earthquake hardening: seismic Importance Factor 1.5
- Standalone operation
- Transmission test frequency by hour
- Alarm ON command manually activates alarm condition

Application

Kidde VS Series life safety systems are powerful intelligent solutions for small to mid-sized buildings. Advanced intelligent technology delivers the benefits of flexible system installation, while clean and easy-to-operate user interfaces make panel operation and system maintenance quick and intuitive.

The smart choice

Electronic addressing eliminates the tedium of setting dipswitches, and automatic device mapping ensures that each device resides on the system at its correct location. Meanwhile, innovative programming allows the designer to customize the system to precisely suit the needs of the building owner.

Reliability you can count on

The inherent fault-tolerant characteristics of Analog/Addressable Technology boosts the reliability of Kidde fire alarm systems. When combined with VS Series smoke and heat detectors, these systems deliver a level of dependability not previously available for small to mid-sized applications. All Kidde systems are built to exacting reliability benchmarks and meet international standards for quality, in addition to agency listings for dependability.

Clear-cut remote annunciation

Remote annunciation is a strong suit of the VS Series fire alarm systems. Up to eight annunciators can be installed on a single system. Compatible annunciators include a range of LED and LCD models that provide zone or point annunciation, as well as common control capabilities. VS control panels also supports graphic annunciation with optional graphic annunciator interface modules. Each interface provides common control and 32 LEDs.

Signals with a difference

VS Series NACs are configurable to fully support the advanced signaling technology of Kidde Genesis and Enhanced Integrity notification appliances. These devices offer precision synchronization

of strobes to UL 1971 standards. For Genesis devices, enabling this feature allows horns to be silenced while strobes on the same two-wire circuit continue to flash until the panel is reset.

Flexibility built right in

Two fully-programmable front panel switch/LED combinations provide an added measure of flexibility. Their slide-in labels take the mystery out of custom applications, and present a clean finished appearance.

Perfect for retrofits

Kidde VS Series control panels are particularly well-suited to retrofit applications. All connections are made over standard wiring – no shielded cable required. This means that in most situations existing wiring can be used to upgrade a legacy control panel to VS technology without the expense or disruption of rewiring the entire building. VS control panels also support the ingenious RZ116-2 zone module, which adds up to 16 conventional circuits and two NACs. This combination easily accommodates new intelligent detection alongside existing conventional circuits, making it an superior solution in the retrofit market.

Scalable IP and Cellular Communications

Several popular third-party IP/Cellular communicators have been tested with the VS control panels and are compatibility listed to UL864. The IP/Cellular communicators meet NFPA72 2013 edition requirements for sole or secondary transmission paths. Using IP/Cellular communicators can reduce the cost of ownership by eliminating POTS lines. Please see the VS control panel compatibility documentation part number 3102354-EN for a full list of compatible communicators.

A complete line of accessories

VS Series life safety systems are supported by a complete line of analog/addressable detectors, modules and related equipment. Consult the Ordering Information section for details.

Programming and remote diagnostics

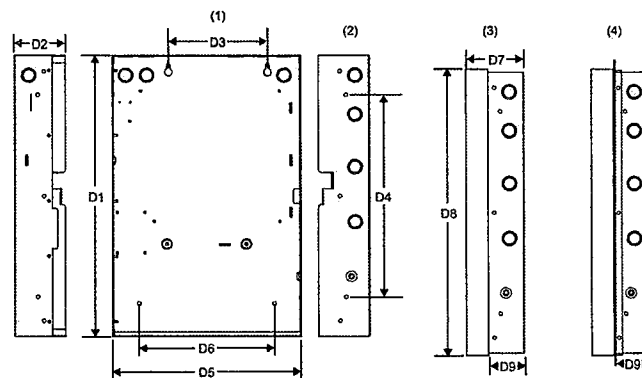
Kidde VS Series life safety systems are simple to set up, yet offer advanced programming features that put these small building panels into a class of their own. The auto programming feature quickly gets the panel operational using factory default settings. Basic zone and point settings can be programmed through the front panel interface, so the system is up and running in no time.

For more advanced system configuration and correlation groups programming, VS Series systems interface to a PC running compatible VS-CU software. This option offers full system configuration in the familiar Windows® operating environment. Connection is made to a laptop through the panel's optional RS-232 communications port, which can also be used to connect a system printer.

Among the many innovative features of VS Series control panels is the optional network card. This module provides a standard 10/100 Base T Ethernet® network connection that permits access to the control panel from any remote location with the correct communications protocols. The connection can be used to download to the panel from the VS-CU, or upload and view system reports using the VS-CU.

Available system reports include: Correlation groups, Device details, Device maintenance, History, Internal status, System configuration, System status, Walk test, Dialer, and CO runtime.

Dimensions



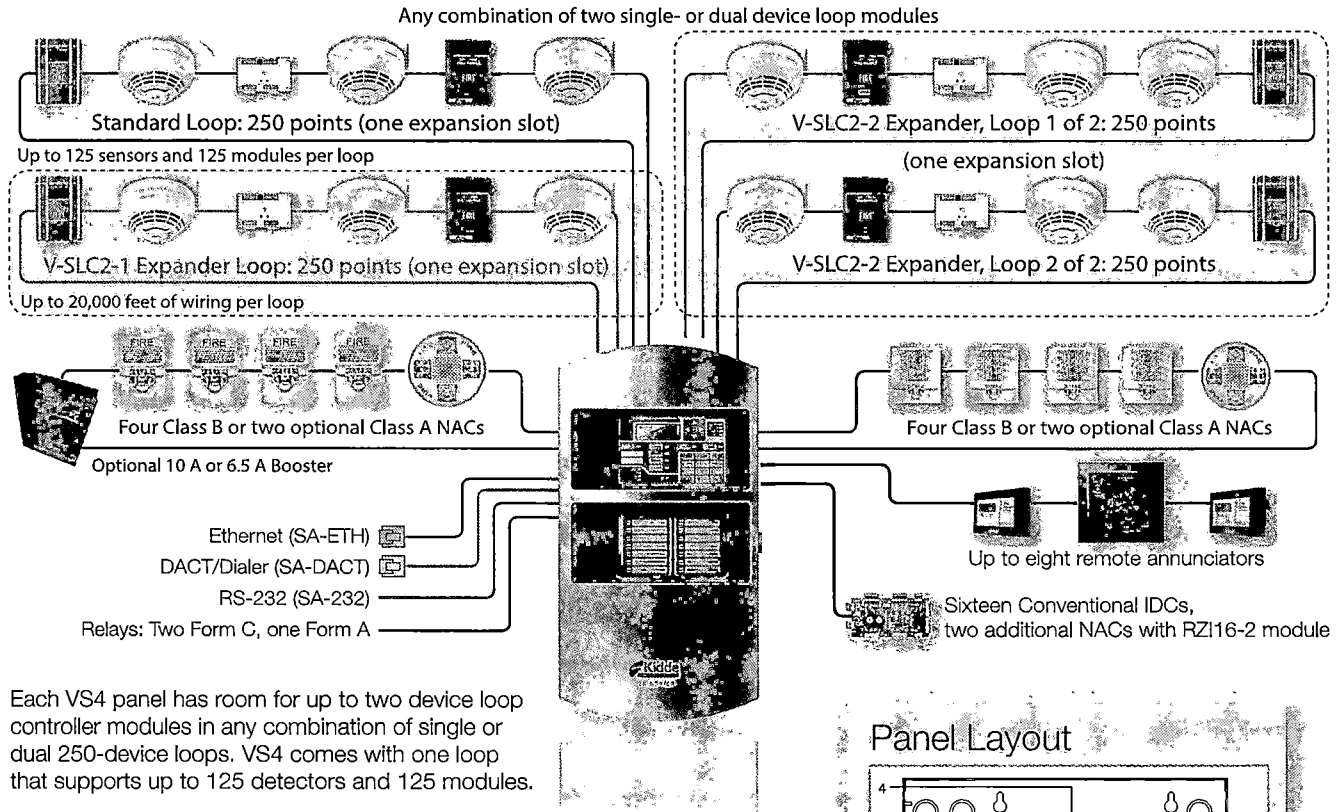
- (1) Surface Mounting Holes (3) Backbox with Door Attached
(2) Semi-flush mounting Holes (4) Backbox with door and trim kit attached.

Panel dimensions, in (cm)									
Model	D1*	D2	D3	D4	D5*	D6	D7	D8	D9
VS4	28.0 (71.1)	3.85 (9.8)	9.0 (22.8)	22.0 (55.8)	15.75 (40.0)	10.25 (26.0)	4.9 (12.4)	30.1 (76.4)	2.7 (6.8)
VS1	21.5 (54.6)	3.85 (9.8)	7.5 (19.0)	15.5 (39.4)	14.25 (36.2)	10.25 (26.0)	4.9 (12.4)	23.6 (59.9)	2.7 (6.8)

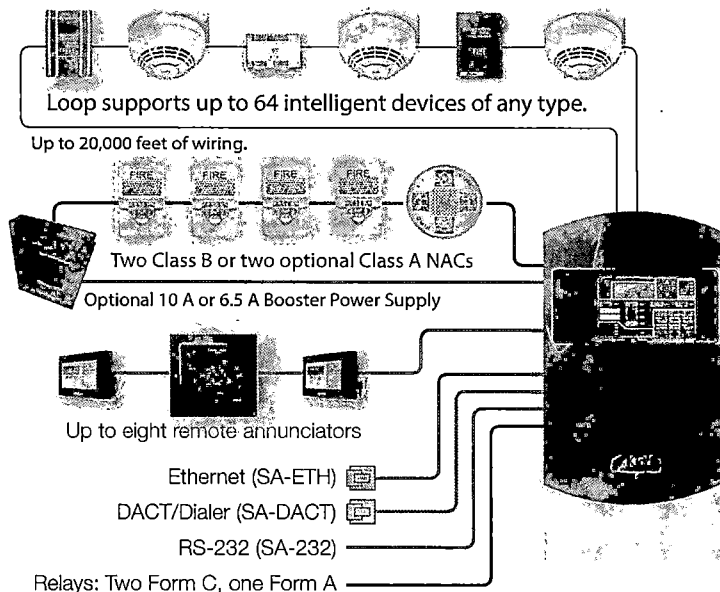
* Add 1-1/2 in. (3.81 cm) to D1 and D5 dimensions for trim kit. The trim kit provides 0.75 inches (1.9 cm) of trim to the top, bottom, and sides of the backbox.

System Layout

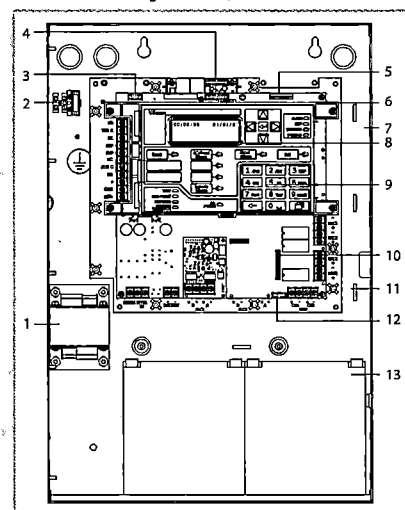
VS4



VS1



Panel Layout



1. Transformer
2. Main AC wiring block & fuse holder
3. RS-232 card connector (J3)
4. Dialer card connection (J8)
5. Ethernet card connector (J1)
6. Main circuit board
7. Panel backbox enclosure
8. Operator interface
9. SLC card connector (J7)
10. Class A card connector (J2)
11. Tie wrap mounts
12. LED expander connector (J6)
13. Standby batteries

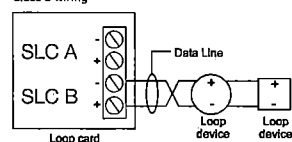
Wiring & Configuration

Device loop

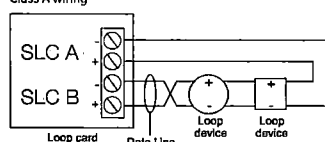
The system provides one device loop circuit with a total capacity of 125 detectors and 125 module addresses. The loop circuit is supervised for opens, shorts, and grounds.

Circuit specifications	VS4	VS1
Device loops	One Class B or A loop, supporting 125 detectors and 125 modules. Expandable to four loops.	One Class B or A loop, supporting 64 devices of any kind.
Communication line voltage	Maximum 20 V peak-to-peak	
Circuit current	0.5 A max	
Circuit impedance	66Ω total, 0.5 μF, max	
Isolators	64 maximum	
Signal Synchronization	Supported on a system-wide basis (all device loops) when using an addressable notification appliance circuit (NAC) module and Genesis or Enhanced Integrity notification appliances.	

Class B wiring



Class A wiring

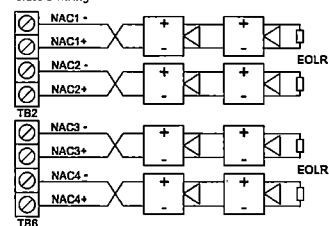


Notification appliance circuits (TB2)

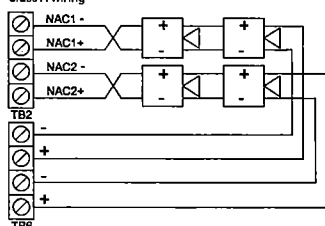
VS4 control panels come equipped with four notification appliance circuits. VS1 control panels come with two NACs. Each circuit can be individually configured for continuous, temporal, synchronized, and coded output.

Specifications	VS4	VS1
Circuit Type	4 Class B or 2 Class A	2 Class B or 2 Class A with SA-CLA module
Voltage	24 VFWR	
Current	6.0 A total, 2.5 A max. per circuit at 120/230 VAC 60 Hz. 5.0 A total, 2.5 A max. per circuit at 230 VAC 50 Hz.	3.75 A total, 2.5 A max. per circuit at 120/230 VAC 60 Hz. 3.0 A total, 2.5 A max. per circuit at 230 VAC 50 Hz.
Impedance	26 Ω total, 0.35 μF max	
EOLR	15 K Ω, ½ W	
Synchronization	Supported system-wide	

Class B wiring



Class A wiring



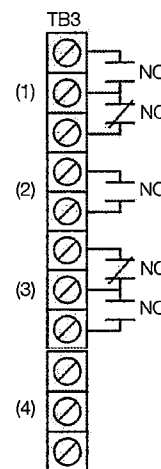
Marking indicates output signal polarity when the circuit is active. Polarity reverses when the circuit is not active. Wire notification appliances accordingly. Notification appliance polarity shown in active state.

Auxiliary & smoke power outputs (TB3)

The control panel provides two auxiliary power outputs that can be used for powering ancillary equipment such as remote annunciators and two wire smoke detectors. Aux 2 can be software selected to operate continuously. The circuit is supervised for shorts and grounds.

Circuit specifications	
Circuit voltage range	21.9 to 28.3 V
Resettable circuit (Aux power 2)	24 VDC nominal at 500 mA
Continuous circuit (Aux power 1)	24 VDC nominal at 500 mA. Use this circuit for powering two-wire smoke detectors.

Note: Any current above 0.5 amp connected to both Aux 1 and 2 will reduce the total available NAC power by that amount.



- (1) Trouble
- (2) Supervisory
- (3) Alarm
- (4) Smoke/Aux

Alarm, trouble, and supervisory relay (TB3)

The trouble relay is normally-open, held closed, and opens on any trouble event or when the panel is de-energized. The supervisory relay is normally-open, and closes on any supervisory event. The alarm relay changes over on any alarm event.

Relay specifications

	Alarm	Trouble	Supervisory
Type	Form C		
Voltage	24 VDC at 1 A resistive	24 VDC at 1 A resistive	

Relay circuits can only be connected to power-limited sources.

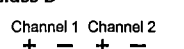
Annunciator loop (TB4)

The control panel provides a connection for up to eight serially driven and supervised remote annunciators.

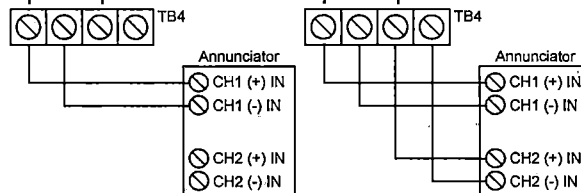
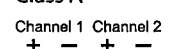
Circuit specifications

Device loops	Class B (Style Y) or Class A (Style Z)
Circuit voltage	2.55 V
Circuit current	30 mA max
Circuit impedance	Up to 8 annunciators or 4000 feet

Class B



Class A



Option Cards

Kidde VS Series panels are supported by a complete line of modules and related equipment that enhance performance and extend system capabilities. Option cards plug directly into the control panel main circuit board or are connected to it with a ribbon cable. After installation, terminals remain accessible. The cabinet provides ample room for wire routing, keeping wiring neat at all times.

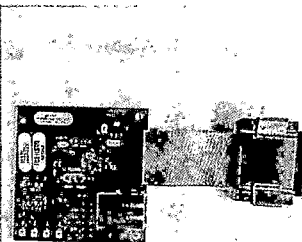
Single and Dual Loop Controller Cards

The V-SLC2-1 is a single loop controller card that can be used with the VS1 as a replacement for the standard 64-point loop, or with the VS4 as a 250-point expansion module.

The V-SLC2-2 is a 500-point dual loop controller card for the VS4 that provides two IDC circuits, each with 125 detector addresses and 125 module addresses.

Specifications	V-SLC2-1	V-SLC2-2
Device Addresses	VS4: one loop, 250 device addresses VS1: 64 addresses	VS4: two loops, 500 device addresses
Wiring	Class B or Class A	
Operating Voltage	24 VDC	
Operating Current (fully loaded loop)	Standby: 55 mA Alarm: 80 mA	Standby: 45 mA Alarm: 70 mA
Note: These ratings do not include the use of two-wire smoke modules.		
Communication Line Voltage	Max. 20.6 V peak-to-peak	
Terminal Rating	12 to 18 AWG (0.75 to 2.5 mm ²)	
Circuit Current	0.5 A max.	
Max total loop resistance	66 Ω	
Max total loop capacitance	0.5 μ F	
Isolators	64 isolators maximum per loop (total both isolator bases and modules)	
Ground Fault Impedance	0 to 5 k Ω	
Operating Environment	32 to 120°F (0 to 49°C) 0 to 93% noncondensing at 90°F (32°C)	

SA-ETH Ethernet Interface Card

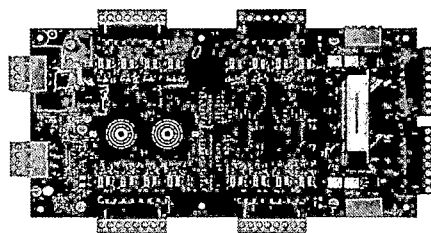


The SA-ETH card provides a standard 10/100 Base T Ethernet network connection for connecting to an intranet, a local network, or the Internet. The card can be used to download configuration programming from the VS-CU to the panel.

The Ethernet card is installed on the plastic assembly and connects to the main circuit board via a ribbon cable.

SA-ETH specifications	
Ethernet	10/100 Base T
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Humidity	0 to 93% RH, noncondensing at 90°F (32°C)

RZI16-2 Remote Zone Interface Module



The RZI16-2 Addressable Remote Zone Interface Module is an addressable device that provides connections for sixteen Class B Initiating Device Circuits and two Class B Supervised Output Circuits. The inputs and outputs can be configured individually for several device types.

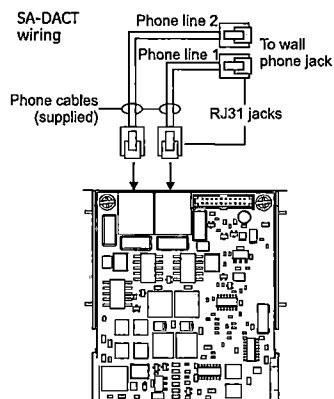
The RZI16-2 requires 18 consecutive addresses on the Signaling Line Circuit (SLC). Addresses are assigned electronically. There are no address switches to set.

The RZI16-2 incorporates two 8-segment DIP switches that are used to select the Alarm or Supervisory default device type for each of the 16 IDC circuits. The module also includes one 4-segment DIP switch used to select the default Relay or NAC output device type. Device types other than the default are accomplished through programming.

RZI16-2 Specifications	
Voltage	
24V/Aux nominal:	24 VDC
Supervisory current:	250 mA at 24 VDC nominal
Alarm current:	1000 mA
24V/Aux minimum:	18.4 VDC
24V/Aux maximum:	26.4 VDC
NAC1, NAC2 nominal:	24 VDC
Current	
Standby current for 4.7 k EOL (U.S.)	4.8 mA/ circuit
Standby current for 3.9 k EOL (Canada)	5.7 mA/ circuit
Alarm current at nominal voltage	31.1 mA/ circuit
Relay outputs	
Quantity	2
Type Rating (pilot duty)	Programmable 24 VDC at 2.5 A
Input circuit wiring resistance	25 Ω per wire
Initiating device circuits	
Quantity	16
EOL resistor	4.7 k Ω (U.S.); 3.9 k Ω Canada
Zone voltage	22.78 V for 4.7 k Ω (U.S.) 22.08 V for 3.9 k Ω (Canada)
Alarm current	31.1 mA/ channel at nominal voltage
Alarm impedance range	< 680 Ω
Trouble impedance range	> 5.55 k Ω
Supervised output circuits	
EOL resistor	15 k Ω
Quantity	2
Short circuit detection	< 2.6 k Ω
Open circuit detection	> 61.9 k Ω
Contact ratings	24 VDC at 2.5 A (5 A for two NACs)
Compatible cabinets	MFC(A), VS4, APS

SA-DACT Dialer

The SA-DACT provides communications between the control panel and the central station over a telephone line system. It transmits system status changes (events) to a compatible digital alarm communicator receiver over the public switched telephone network. The dialer is capable of single, dual, or split reporting of events to two different account and telephone numbers. The modem feature of the SA-DACT can also be used for uploading and downloading panel configuration, history, and current status to a PC running the VS-CU.



The dialer phone lines connect to connectors on the dialer's main circuit board. Phone line 1 connects to connector J4 and phone line 2 connects to connector J1.

The SA-DACT queues messages and transmits them based on priority (alarm, supervisory, trouble, and monitor). Activations are transmitted before restorations.

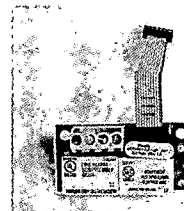
The SA-DACT is installed on the plastic assembly and connects to the main circuit board via a ribbon cable.

SA-DACT specifications	
Phone line type	One or two loop-start lines on a public, switched network
Phone line connector	RJ-31/38X (C31/38X)
Communication formats	Contact ID (SIA DC-05)
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Humidity	0 to 93% RH, noncondensing at 90°F (32°C)

Compatible DACRs		
Receiver	Models	Formats
Ademco	685	Contact ID
FBII	CP220	Contact ID
Osborne-Hoffman	OH 2000	Contact ID
Bosch	D6600	Contact ID
Silent Knight	9800	Contact ID
Sur-Gard	SG-MLR1, MLR2	Contact ID

SA-232 RS-232 interface

The SA-232 card provides an RS-232 interface with VS panels. It can be used for connecting a printer to the control panel to print system events. The card also can be used for connecting a computer to download a configuration program from the VS-CU to the control panel.



The RS-232 card is installed on the plastic assembly and connects to the main circuit board via a ribbon cable.

SA-232 specifications	
Operating voltage	Standard EIA-232
Terminal rating	12 to 18 AWG (0.75 to 2.5 sq mm)
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Humidity	0 to 93% RH, noncondensing at 90°F (32°C)

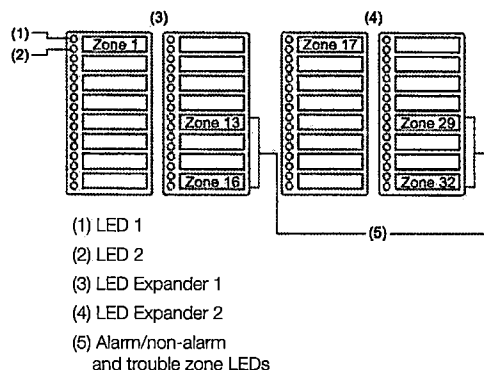
SA-CLA Class A Module (VS1 only)

The SA-CLA card provides Class A capability for NAC wiring. Its terminal block provides the wiring connection for NAC return wiring. The card is required for annunciator Class A wiring even though this wiring does not return to the SA-CLA card. The SA-CLA is compatible with VS1 control panels only. VS4 panels are Class A Ready. The SA-CLA is installed directly to the control panel circuit board using its plastic standoffs and plug connection.

SA-CLA specifications	
Operating voltage	24 VFWR
Operating current	3.75 A FWR total at 120/230 VAC 60 Hz 3.0 A FWR total at 230 VAC 50 Hz 2.5 A max per circuit
Circuit impedance	26 ohms, 0.35uF
Terminal rating	12 to 18 AWG (0.75 to 2.5 sq mm)
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Humidity	0 to 93% RH, noncondensing at 90°F (32°C)

D16L-VS LED Display Expander (VS4 only)

The D16L-VS LED Display Expanders provide LED annunciation for up to 16 zones. It provides two LEDs for each zone. Two D16L-VS LED display expanders can be installed in each VS4 panel.



Specifications

	VS1	VS4
Device loops	1 loop Class B or Class A (Styles 4, 6, 7) supporting up to 64 device addresses (any combination of detectors and modules) Maximum T-taps: 63 (each device can be on its own branch)	1 loop, expandable to 4, Class A or B (Styles 4, 6, 7), each loop supporting up to 250 device addresses (125 detectors and 125 modules max.). Addresses 1 to 125 are for detectors and addresses 126 to 250 are for modules Maximum T-taps/loop: 124
Notification appliance circuits	2 Class B (Style Y), Class A (Style Z) optional 3.75 A FWR total at 120/230 VAC 60 Hz 3.0 A FWR total at 230 VAC 50 Hz 2.5 A FWR each max. per circuit	4 Class B (Style Y) or 2 Class A (Style Z) 6.0 A FWR total at 120/230 VAC 60 Hz 5.0 A FWR total at 230 VAC 50 Hz 2.5 A FWR each max. per circuit
Primary power	120 VAC, 60 Hz, 1.3 A max. 230 VAC, 50-60 Hz, 0.62 A max.	120 VAC, 60 Hz, 2.0 A max. 230 VAC, 50-60 Hz, 0.97 A max.
Base panel current standby	155 mA	172 mA
Base panel current alarm	204 mA	267 mA
Input zones	16 max.	32 max.
Remote annunciator	8 drops max., RS-485 Class B, Class A is optional Data line length: 4,000 ft. (1,219 m)	8 drops max., RS-485 Class A or B Data line length: 4,000 ft. (1,219 m)
Operating voltage	24 VDC panel	
Auxiliary power output circuit	Aux power 1: 500 mA, 24 VDC (1 A possible if you reduce total available NAC power by 500 mA) Aux power 2: 500 mA, 24 VDC Output: 28.3 to 21.9 VDC, special application <i>Note: For a list of compatible devices, see the VS1 and VS4 Series Compatibility List (P/N 3102354-EN)</i>	
Loop circuit	Maximum loop resistance: 66 Ω Maximum loop capacitance: 0.5 μ F Communication line voltage: Maximum 20.6 V peak-to-peak Operating current (fully loaded loop) Stand by: 55 mA/45 mA Alarm: 125 mA/115 mA (not including two-wire smoke modules) Circuit current: 0.5 A max. Style 4, 6, and 7 wiring Max. resistance between isolators: Limited only by overall wire run lengths 64 isolators maximum per loop (total both isolator bases and modules)	
Batteries	Type: Sealed lead acid Voltage: 24 VDC Charging current: 2.47 A max. Amp hour capacity: 26 Ah Standby operation: 24 hour or 60 hour Placement: Up to two 10 Ah batteries will fit in the VS1 control panel cabinet and two 18 Ah batteries will fit in the VS4 control panel cabinet. If larger batteries are required, use a battery cabinet.	
SA-DACT dialer	Phone line type: One or two loop-start lines on a public, switched network Phone line connector: RJ-31/38X (C31/38X) Communication formats: Contact ID (SIA DC-05) Operating current Standby/Alarm: 41 mA Max.: 100 mA FCC registration number: GESAL01BSADACT Industry Canada Registration number: 3944A-SADACT Ringer equivalence number: 0.1B	
Ground fault impedance	0 to 5 k Ω	
Alarm contact	Form C N.O. 24 VDC at 1 A (resistive load)	
Trouble contact	Form C 24 VDC at 1 A (resistive load)	
Supervisory contact	Form A N.O. 24 VDC at 1 A (resistive load)	
Environmental	Temperature: 0 to 49°C (32 to 120°F) Relative humidity: 0 to 93% noncondensing	
Terminal rating	All terminals rated for 12 to 18 AWG (0.75 to 2.5 mm ²)	



Technology that saves lives

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Ordering Information

Part	Description
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VS4 Fire Alarm Systems

VS4-G	Four loop system with one 250-point loop installed. 110v, gray door.
VS4-G-2	Four loop system with one 250-point loop installed. 230v, gray door.
VS4-G-2-PG	Four loop system with one 250-point loop installed. 230v, gray door, Portuguese.
VS4-G-2-SP	Four loop system with one 250-point loop installed. 230v, gray door, Spanish.
VS4-GC	Four loop system, one 250-point loop installed. 110v, gray door, LED strips, Canada.
VS4-GD	Four loop system, one 250-point loop installed. 110v, gray door, with dialer.
VS4-GF	Four loop system, one 250-point loop. 110v, gray door, LED strips, French Canada.
VS4-G-PG	Four loop system with one 250-point loop installed. 110v, gray door, Portuguese.
VS4-G-SP	Four loop system with one 250-point loop installed. 110v, gray door, Spanish.
VS4-R	Four loop system with one 250-point loop installed. 110v, red door.
VS4-R-2	Four loop system with one 250-point loop installed. 230v, red door.
VS4-RD	Four loop system, one 250-point loop installed. 110v, red door, with dialer.
SA-TRIM2	VS4 Flush mount trim, black.

VS1 Fire Alarm Systems

VS1-G	One loop system with one 64-point loop installed. 110v, gray door.
VS1-G-2	One loop system with one 64-point loop installed. 230v, gray door.
VS1-G-2-PG	One loop system with one 64-point loop installed. 230v, gray door, Portuguese.
VS1-G-2-SP	One loop system with one 64-point loop installed. 230v, gray door, Spanish.
VS1-GD	One loop system, one 64-point loop installed. 110v, gray door, with dialer.
VS1-GL	One loop system, one 64-point loop installed. 110v, gray door, English Canada.
VS1-GL-F	One loop system, one 64-point loop installed. 110v, gray door, French Canada.
VS1-G-PG	One loop system with one 64-point loop installed. 110v, gray door, Portuguese.
VS1-G-SP	One loop system with one 64-point loop installed. 110v, gray door, Spanish.
VS1-R	One loop system with one 64-point loop installed. 110v, red door.
VS1-R-2	One loop system with one 64-point loop installed. 230v, red door.
VS1-RD	One loop system, one 64-point loop installed. 110v, red door, with dialer.
SA-TRIM1	VS1 Flush mount trim, black

Option Cards

V-SLC2-1	Expansion module, one 250-device loop. For VS4 only.
V-SLC2-2	Expansion module, two 250-device loops, 500 devices total. For VS4 only.
RZ116-2	Remote Zone Interface Module. 16 Class B IDCs, 2 Class B Output. Bracket included.
SA-DACT	Dual Line Dialer/Modem, supports Contact ID, mounts in cabinet on base plate.
SA-232	RS-232 Serial Port for connection to printers & computers, mounts in cabinet.
SA-ETH	Ethernet Port, Slave, mounts in cabinet on base plate.
SA-CLA	Class A adapter module. Provides Class A capacity on NACs. Mounts in cabinet on main board. VS1 systems only.
D16L-VS	LED Annunciator module, 16 X 2-LED zones (4 programmable for sup). Mounts in cabinet to right of LCD display. For VS4 only.
D8RY-VS	Canada only: LED Annunciator module, two LEDs per zone, 16 zones (4 alarm only, 8 supervisory only, 4 alarm or supervisory). Mounts in cabinet. For VS4 only.

Accessories

CTM	City Tie Module. 2-gang. Connection to a local energy fire alarm box.
MFC-A	Multifunction Fire Cabinet, 8" x 14" x 3.5" - red.
BC-1	Battery Cabinet. 14.0" x 18.25" x 7.25". Holds two 12V24A batteries.
BC-1R	Battery Cabinet - Red. 14.0" x 18.25" x 7.25". Holds two 12V24A batteries.
GSA-REL	Releasing Module
BC-1EQ	Seismic hardening Kit for VS Series panels. Includes battery hardening for BC-1 enclosure and components to harden panel internal components.

Programming Tools

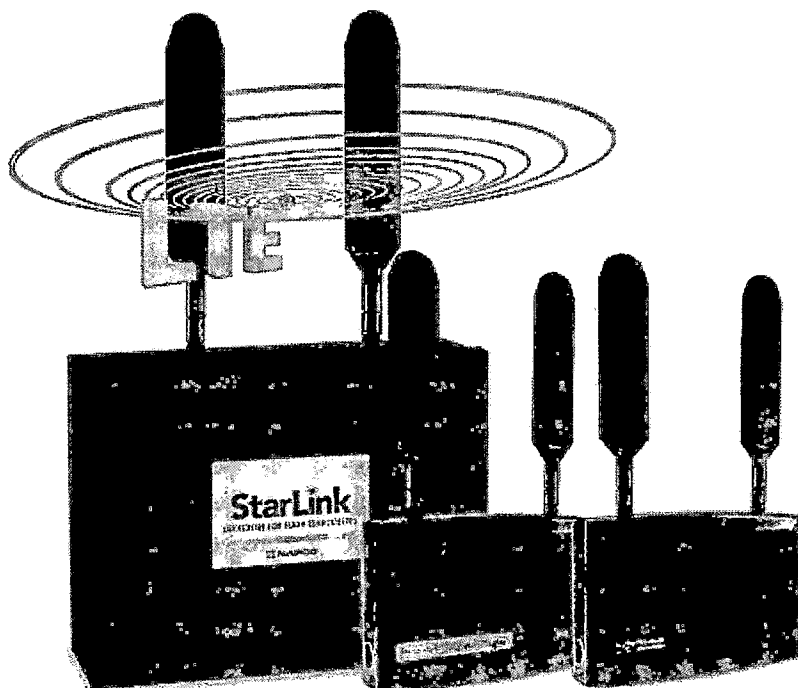
VS-CU	VS Series configuration and diagnostics utility.
260097	RS232 cable, 4 conductor, DB9 PC interface

StarLink Fire

COMMERCIAL FIRE CELLULAR & IP

Commercial Fire Alarm Cellular & /or IP Fire Alarm LTE Communicators

- **Universal full event sole & dual path cellular &/or IP commercial fire alarm reporting from any panel brand, virtually anywhere nationwide**
- **Code-compliant, replaces 2 POTs lines per FACP** saves thousands of dollars per year over the leased landlines
- **Supports 12V-24V control panels and FACPs** that communicate using Contact ID and 4/2 (such as on legacy panels), as primary or backup
- **Full data Reporting to any Central Station nationwide, via choice of LTE Networks, Verizon® or AT&T®.** Communicate critical life and safety alarm reports on LTE (Long Term Evolution) 10+ year life, cyber-protected multi-billion dollar cellular network, for maximum life safety & liability protection.
- **Proven to work even where other's won't - using Signal Boost™ & twin dual diversity antennas** - Max. signal acquisition & null avoidance (receives signals simultaneously on both antennas)
- **Easiest installation, powered by panel, NO extra power supply, NO extra conduit.** (Excludes Direct AC-Powered "-PS" models, with transformer option.) †
- **Dual Path Cellular/IP Models Save Time & Money** - Uniquely including 4 programmable EOLR zone inputs; 2 Form C Relay outputs (no extra supervision modules to buy or install); plus, 2 Telephone-style jacks for easy FACP-connection. Self-supervised on 4 wires.
- **Preactivated to ensure communications** - saves time and labor onsite
- **LED Status /Trouble Indicators** 3 Radio Status LED Indicators (visible from outside standard model housing) - Green, Signal Strength; Amber- Busy/Activation; Red-Trouble (4 additional LEDs, not visible, for network status & troubleshooting). Power LED indicator viewable on outer metal enclosure models.
- **Over-the-Air Upgradable Communicator Firmware.** Remote ability for critical/mandatory updates, without a truck-roll
- **Cost-saving models and plans for any code requirement.** Dramatic savings over monthly dedicated landline charges.



Code-compliant standard or metal models on choice of Verizon or AT&T LTE networks.

UL and NFPA 72 Fire Code-Compliant, the StarLink Series Wireless Commercial Fire Alarm Sole Path & Dual Path Communicators provide universal support for any brand 12V to 24V fire alarm control panel, reporting in Contact ID and 4/2. With broadest LTE coverage footprint, Verizon or AT&T, using proven StarLink circuitry, they are also available in locking metal models. All provide the most economical solution for easy, versatile installation. Also regional compliances, i.e., CSFM, NYCDF, LAFD and more.

Easy, Universal Installation at Every Application; Panel-Powered Technology™. StarLink Fire Communications are easily connected to any panel or Fire Alarm Control Panel (FACP) standardly operating between 12V and 24V. Flexible in any application, StarLink Fire also comes in standard, or models in metal housings, with code-compliant supervision, and choice of power options, Panel-Powered Technology™ (powered by the panel), or direct-connect 120VAC models. **Signal Boost circuitry & dual diversity antennae** for maximum signal acquisition & null avoidance, receiving signals simultaneously on both antennae.

Flexible Performance & Reporting Options. StarLink Fire provides full data reporting, in sole and dual path, as a primary or backup, to any central station of your choice, without requiring any special equipment on premises. Ultra-affordable plans are available to meet various codes and requirements, with supervisory check-ins from 200 seconds, to 5 minutes; and/or from 1 to 6 hours. The units are very easily activated, plans and options are selected, and 24/7 account management is provided all through www.napcocomnet.com.

Napco StarLink Universal Fire Alarm Communicators

- **Sole Path Cellular and Dual Path Cellular &/or IP Models**
- **Choice of LTE Networks**, Verizon or AT&T models
- **Choice of plans** (varies by model) - check-ins from 200 seconds to 5-minutes, and from 1 hour; up to 6 hours for dual path
- **Patented Signal Boost™ and Dual Diversity Antennae** for maximum signal acquisition & null avoidance, receiving signals simultaneously on both antennae
- **Money-saving Tradeup incentive credit** for security professionals, on new or retrofit fire systems, i.e., tradeup missing/retired POTs lines, old radios & networks or new installations
- **Bonus: Full High-Speed Napco Panel remote uploading/downloading**
- **COMPLIANCES:** NFPA 72 Editions: 2019, 2016, 2013, 2010, 2007; UL 864, 10th Ed., UL1610, UL985, UL1023, NYCDF; CSFM; LAFD



AT&T

connected by
verizon



Model Ordering & Specifications



	LTE Network	Cell	IP	WiFi Option**	Unique Onboard Labor/Cost-Saver Features	Electrical Input Ratings	Inputs	Input Ratings	Outputs	Output Ratings	Other Power Supply (option)†
STANDARD MODELS (ABS) 5.38 x 7.88 x 1.88" (HWD)											
SOLE PATH											
SLE-LTEA-FIRE	AT&T	Yes	No	No		Panel-Powered Technology†† Input Voltage: 10V = 90mA; 12-25V = 71mA; 200mA peak during transmissions	IN1, IN2, IN3	IN1: 9-25VDC Max input current 2mA IN2, IN3: 9-25VDC Max input current 1.2mA	PGM1, PGM2, PGM3	Open Collector Outputs Max 3V when active, Max 25V when not active, Max current 24mA@ 25V	
SLE-LTEV-FIRE	Verizon	Yes	No	No							
DUAL PATH											
SLE-LTEAI-FIRE	AT&T	Yes	Yes	Yes	2 TelCo jacks for EZ FACP Connect; 4 Programmable EOLR zone inputs; 2 Form C Relay outputs (avoids reqt for supervision module)	Panel-Powered Technology†† Input Voltage: 10-25VDC; Input Current: 162mA to 100mA standby; 300mA peak during transmissions	IN1, IN2, IN3, IN4, IN5	IN1: 9-25VDC Max input current 2mA IN2, IN3: 9-25VDC Max input current 1.2mA	OUT1, OUT2, PGM3	OUT1, OUT2: Dry Contact, Form C Relay, 30V AC/DC, 500mA Max. PGM3: Open Collector Outputs Max 3V when active, Max 25V when not active, Max current 24mA@ 25V	
SLE-LTEVI-FIRE	Verizon	Yes	Yes	Yes							
MODELS IN METAL ENCLOSURE 9.63 x 11.75 x 3.38" (HWD)											
SOLE PATH											
SLE-LTEA-CFB	AT&T	Yes	No	No		Panel-Powered Technology†† Input Voltage: 10V = 90mA; 12-25V = 71mA; 200mA peak during transmissions	IN1, IN2, IN3	IN1: 9-25VDC Max input current 2mA IN2, IN3: 9-25VDC Max input current 1.2mA	PGM1, PGM2, PGM3	Open Collector Outputs Max 3V when active, Max 25V when not active, Max current 24mA@ 25V	
SLE-LTEV-CFB	Verizon	Yes	No	No							
SLE-LTEA-CFB-PS	AT&T	Yes	No	No		Direct AC Powered: Input Voltage: 120VAC nominal Input Current: 150mA max; maximum charging current: 200mA	IN1, IN2, IN3	IN1: 9-25VDC Max input current 2mA IN2, IN3: 9-25VDC Max input current 1.2mA	PGM1, PGM2, PGM3	Open Collector Outputs Max 3V when active, Max 25V when not active, Maximum current 24mA@ 25V	Transformer (TRF12 16VAC, 20VA transformer)
SLE-LTEV-CFB-PS	Verizon	Yes	No	No							
DUAL PATH											
SLE-LTEAI-CFB	AT&T	Yes	Yes	Yes	2 TelCo jacks for EZ FACP Connect; 4 Programmable EOLR zone inputs; 2 Form C Relay outputs (avoids reqt for supervision module)	Panel-Powered Technology†† Input Voltage: 10-25VDC; Input Current: 162mA to 100mA standby; 300mA peak during transmissions	IN1, IN2, IN3, IN4, IN5	IN1: 9-25VDC Max input current 2mA IN2, IN3, IN4, IN5: 9-25VDC Max input current 1.2mA	OUT1, OUT2, PGM3	OUT1, OUT2: Dry Contact, Form C Relay, 30V AC/DC, 500mA Max. PGM3: Open Collector Outputs Max 3V when active, Max 25V when not active, Max current 24mA@ 25V	
SLE-LTEVI-CFB	Verizon	Yes	Yes	Yes							
SLE-LTEAI-CFB-PS	AT&T	Yes	Yes	Yes	2 TelCo jacks for EZ FACP Connect; 4 Programmable EOLR zone inputs; 2 Form C Relay outputs (avoids reqt for supervision module)	Direct AC Powered: Input Voltage: 120VAC nominal Input Current: 200mA max; maximum charging current: 200mA	IN1, IN2, IN3, IN4, IN5	IN1: 9-25VDC Max input current 2mA IN2, IN3, IN4, IN5: 9-25VDC Max input current 1.2mA	OUT1, OUT2, PGM3	OUT1, OUT2: Dry Contact, Form C Relay, 30V AC/DC, 500mA Max. PGM3: Open Collector Outputs Max 3V when active, Max 25V when not active, Max current 24mA@ 25V	Transformer (TRF12 16VAC, 20VA transformer)
SLE-LTEVI-CFB-PS	Verizon	Yes	Yes	Yes							

ACCESSORIES:

SLE-WIFI-MODULE Optionally connects supported dual path models to Internet via WiFi, eliminating Ethernet cable connection. Requires 7AH batt'y. (**See details W12191)

SLE-ANEXT75 Optional extended range omni. antenna w/ 75' cable, premium low-loss cable & full mounting hardware & ground fault isolation mounting plate

SLE-ANEXT50 As above, with 50' cable

SLE-ANEXT30 As above, with 30' cable

TRF12 Optional Plug in AC Transformer, 16.5V / 20VA (use is subject to local code compliance)†

Free Commercial Fire LTE Tradeup Trifold
Brochures / Mailers/Stuffers (A747)



FireLink™ Integrated Fire Alarm Control Panel w/ StarLink Fire LTE Built In



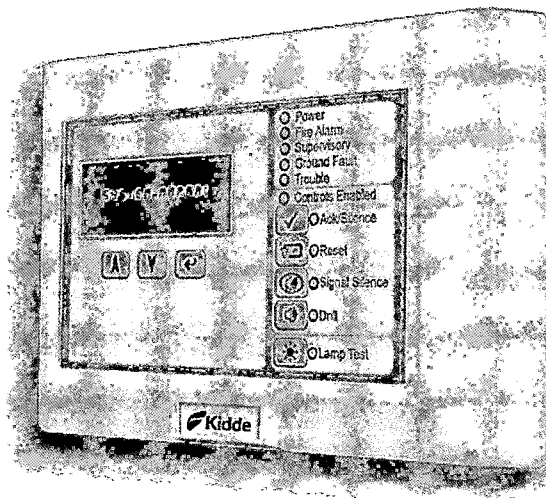
FL-32FACP-LTEV Firewolf 8 Zone 24V Conventional Commercial Fire Alarm Control Panel with onboard StarLink Fire® Sole Path, Verizon LTE Cellular Alarm Communicator and integral menu-driven LCD annunciator, w/ 4amp, 24V power supply. Optionally expandable up to 32 points/zones via commercial addressable, wireless or conventional fire devices (2 onboard NACs providing up to 4A notification power). Locking, metal red enclosure, (surface or flush mount) removable 16"x17" door w/ 14.25"x16" base. Houses 16Ah battery backup.



Technology that saves lives

R-Series Remote Annunciators

RLCD, RLCD-C, RLED, RLED-C, RLED24, GCI



Overview

Kidde R-Series Annunciators are high-performance remote annunciators that provide status indication and common controls for compatible fire alarm control panels. This family of annunciators offers LCD or LED annunciation. Models are available with and without common controls.

There are three R-Series annunciator models, plus an LED-based expander. Up to two expanders can be connected to any annunciator. The expander includes 24 pairs of LEDs that extend the capabilities of any of the annunciators.

All annunciator models include status LEDs and an internal buzzer. Two models have an LCD text display, and one has 16 pairs of LEDs for zone annunciation. LCD models feature a large back-lit, four by twenty character per line, super-twist liquid crystal display.

R-Series annunciators and expanders are mounted on a standard 4-inch square electrical box, using the included mounting ring. They can also be surface mounted in locking steel enclosures. Three different enclosures are available.

A keyswitch and graphic annunciator interface is available for R-Series annunciator applications. The keyswitch enables or disables common controls. The graphic annunciator interface cards supports 32 LEDs and 16 switches on the graphic panel display.

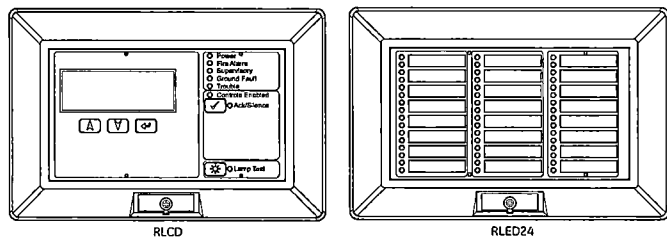
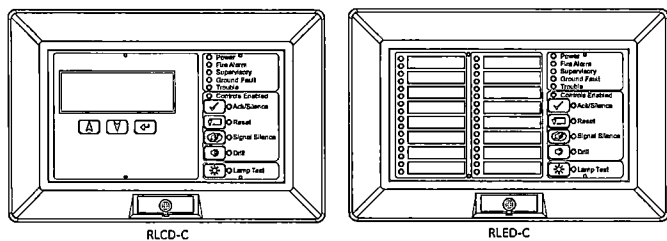
Features

- LCD models feature large 4 x 20 character backlit LCD display
- LED models provide 16 pairs of LEDs for zone annunciation
- Available expander extends capability with 24 pairs of LEDs
- Up to two expanders may be wired to each annunciator
- Status LEDs and internal buzzer standard on all models
- Common controls available for LED and LCD display models
- Available keyswitch for disabling common controls
- Standard 4-inch square electrical box mounting
- Class B or Class A RS485 wiring standard
- One-, two-, and three-position enclosures available
- Graphic Annunciator interface, includes common control, indicators and 32 LEDs
- No programming required, set the address and unit receives all information from panel

Application

R-Series annunciators communicate with the FACP on the RS-485 data riser. This can be configured for Class A or Class B communication. Annunciators do not provide ground fault isolation.

These annunciators are stand-alone units that can be powered by the FACP or by an approved power supply.



Features by model	RLCD	RLCD-C	RLED-C	RLED24
Reset	✓	✓	✓	-
Ack/Silence	✓	✓	✓	-
Fire Alarm	✓	✓	✓	-
Supervisory	✓	✓	✓	-
Ground Fault	✓	✓	✓	-
Trouble	✓	✓	✓	-
Controls Enabled	✓	✓	✓	-
Ack/Silence	✓	✓	✓	-
Reset	-	✓	✓	-
Signal Silence	-	✓	✓	-
Drill	-	✓	✓	-
Lamp Test	✓	✓	✓	-
LCD Display	✓	✓	-	-
Zone Active LEDs	-	-	16 *	24 **
Zone Trouble LEDs	-	-	16	24

* zones 13-16 may be selected as Supervisory on FX-64 and VS1

** zones 13-16 and 29-32 may be selected as Supervisory on FX-1000 and VS4

Graphic Annunciator Interface

The GCI Graphic Annunciator Driver is an interface card that connects the fire alarm control panel to the display panel of an LED-based graphic annunciator.

The annunciator card supports 32 LEDs and 16 switches on the graphic panel display. It includes status LEDs and an internal buzzer.

The graphic interface is supplied with snap track mounting. It is attached to a plastic mounting rail that requires two EIA panels.

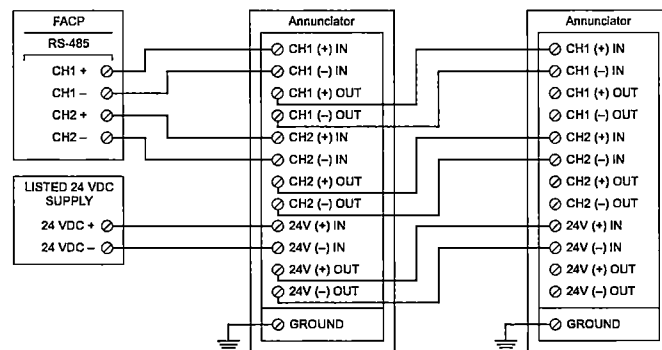
The annunciator communicates with the FACP on the RS-485 data riser. This can be configured for Class A or Class B communication. The annunciator does not provide ground fault isolation. It is a stand-alone unit that can be powered by the FACP or by an approved power supply.

Graphic Annunciator Interface Specifications

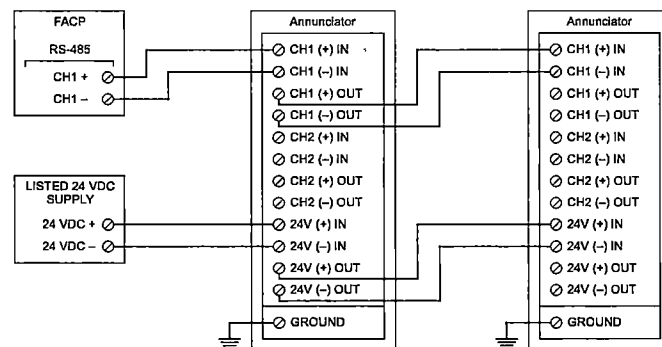
Alarm current	146 mA at 24 Vdc (with 36 LEDs ON)
Standby current	36 mA at 24 Vdc (with no LEDs ON)
Maximum current	10 mA per LED

Annunciator Wiring

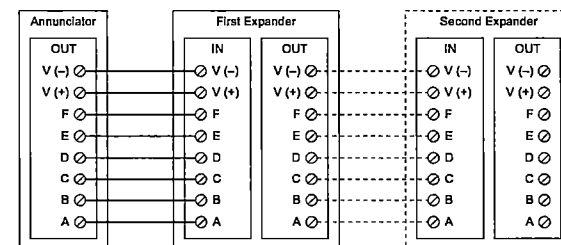
Annunciator, Class A



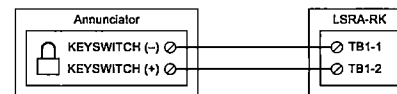
Annunciator, Class B



Expander

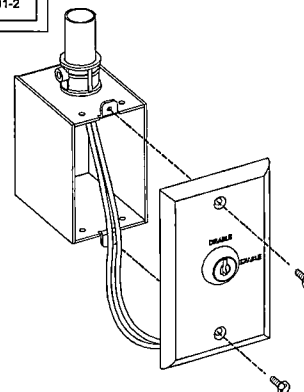


Remote Keyswitch



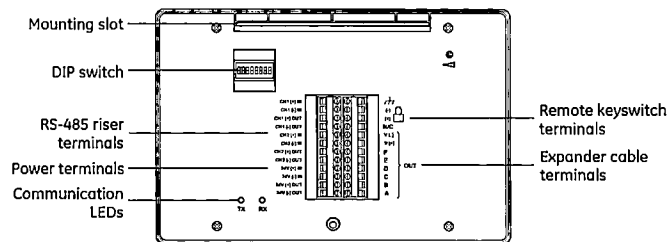
Keyswitch Specifications

Maximum voltage	5 Vdc
Maximum current	200 mA
Mounting	2-1/2 in (64 mm) deep 1-gang box
Termination	Screw terminals
Maximum wire size	12 AWG (2.5 mm sq)
Contact configuration	Normally open

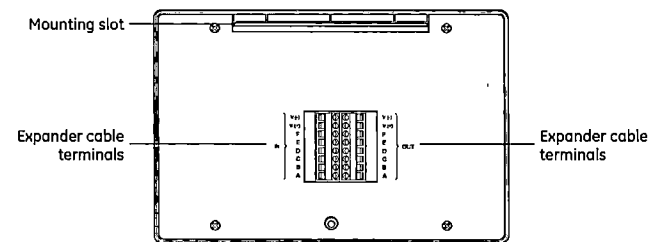


Annunciator Connections

Annunciator



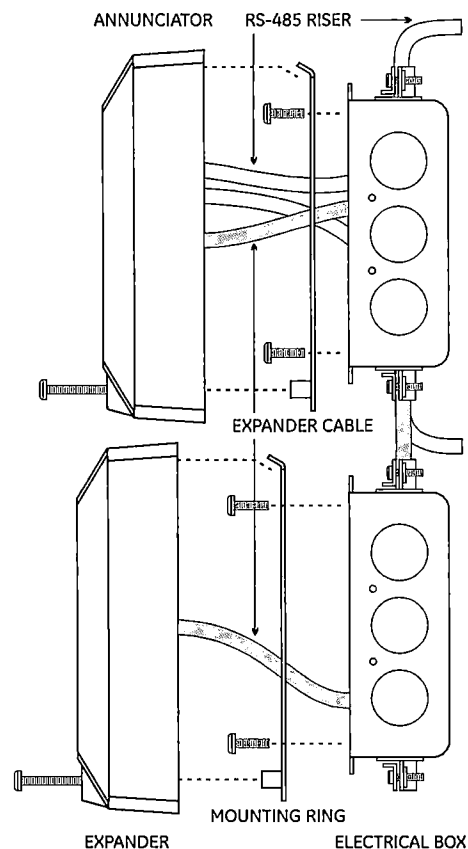
Expander



DIP switch settings

Switch	Description and values
S1 to S5	The annunciator network address (in binary).
Network address	The factory setting is for address 2. Examples: 10000 = 1 01000 = 2 11000 = 3 00100 = 4
S6 Network baud rate	OFF = 9600 baud (factory default setting) ON = 38,400 baud
S7 to S8	Not used

Annunciator Mounting

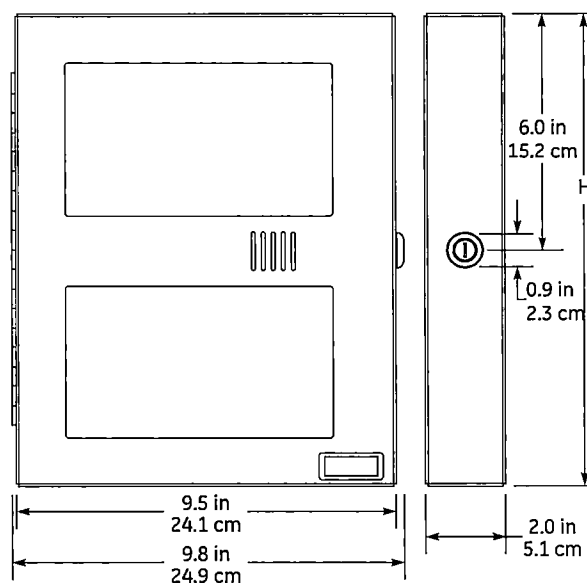
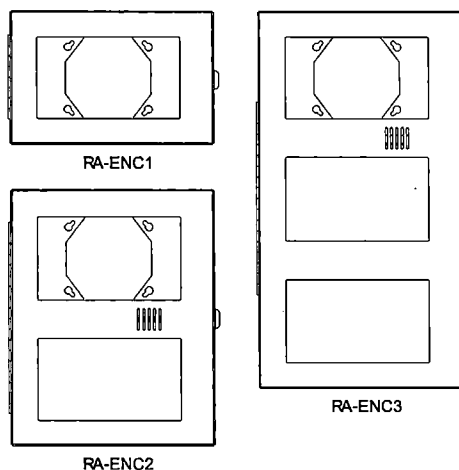


Annunciator Enclosures

The RA Remote Annunciator Enclosures provide secure, surface mounted protection for annunciators and extenders. Each consists of a back plate, hinged cover, and key lock.

The enclosures are 16-gauge welded steel with a white, painted finish. Each enclosure includes a security lock and two keys. The two- and three-position enclosures have wiring channels for correct routing of interconnections.

The enclosures attach to a standard electrical box, and provide a mounting lip that takes the place of the integral mounting ring supplied with the annunciators and expanders.



Dimensions (H x W x D)

RA-ENC1	6.3 x 9.8 x 2.0 in (16.0 x 24.9 x 5.1 cm)
RA-ENC2	12.0 x 9.8 x 2.0 in (30.5 x 24.9 x 5.1 cm)
RA-ENC3	17.7 x 9.8 x 2.0 in (45.0 x 24.9 x 5.1 cm)

Note: Allow approximately 2 inches (50 cm) clearance on both sides of the enclosure, to permit inserting and removing the key, and opening the door through 90 degrees.



Technology that saves lives

Contact us...

Email: kidde.fire@fs.utc.com
 Web: Kidde.com/EngineeredSystems

Kidde is a UTC brand.
 1016 Corporate Park Drive
 Mebane, NC 27302

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Specifications

	RLCD-C	RLCD	RLED-C	RLED24
Operating voltage	24 VDC, continuous.			
Standby current	99 mA	98 mA	28 mA	6 mA
Alarm current	115 mA	113 mA	62 mA	34 mA
RS-485 communications	Class A or Class B, 9600 baud			
Data wiring	18 to 14 AWG (1.0 to 2.5 sq mm) twisted pair (6 twists per foot minimum). Maximum wire run is 4,000 ft. (1,219 m)			
Remote key switch circuit	5 VDC at 1 mA, power-limited, unsupervised			
Ground fault impedance	0			
Power wiring	18 to 14 AWG (1.0 to 2.5 sq. mm)			
Display area	4 lines of 20 characters each			
Dimensions (H x W x D)	5-5/8 x 8-1/2 x 1-1/2 in. (14.3 x 21.4 x 3.8 cm)			
Mounting	North American 4-inch square electrical box or listed enclosure			
Agency Listing	UL, ULC			
Operating environment	Temperature: 32 to 120°F (0 to 49°C) Humidity: 0 to 93% RH, noncondensing at 90°F (32°C)			

Ordering Information

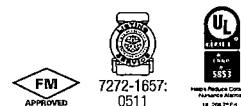
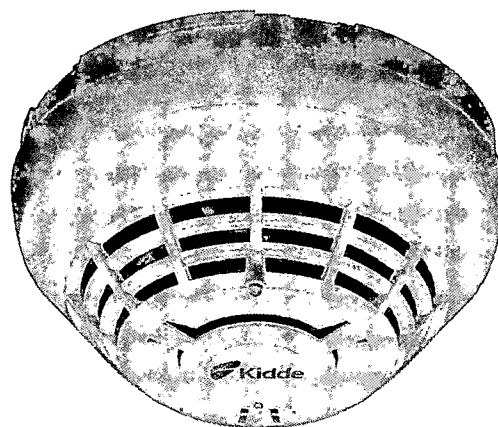
Part	Description
Remote Annunciators	
K-RLCD	LCD text annunciator without common controls. English.
K-RLCD-R	LCD text annunciator without common controls. English. Red.
K-RLCDF	LCD text annunciator without common controls. French.
K-RLCD-C	LCD text annunciator with common controls. English.
K-RLCD-CR	LCD text annunciator with common controls. English. Red.
K-RLCD-CF	LCD text annunciator with common controls. French.
K-RLED-C	16-pair LED zone annunciator with common controls. English.
K-RLED-CR	16-pair LED zone annunciator with common controls. English. Red.
K-RLED-CF	16-pair LED zone annunciator with common controls. French.
Remote Expanders	
K-RLED24	24-pair LED zone expander with expander cable and zone card insert.
K-RLED24R	24-pair LED zone expander with expander cable and zone card insert. Red.
Enclosures	
RA-ENC1	One-position enclosure for Remote Annunciator.
RA-ENC2	Two-position enclosure for Remote Annunciator and one Remote Expander, including one interconnection cable.
RA-ENC3	Three-position enclosure for Remote Annunciator and two Remote Expanders, including two interconnection cables.
LSRA-MIR-SB	Surface Mount Box - for single R Series annunciator.
Graphic Annunciator Drivers	
GCI	Graphic Annunciator Driver, provides outputs for common indicators and 32 alarm/supv zones as well as inputs for common switches. Provided with a snap track for mounting in custom graphic enclosures.
Accessories	
RKEY	Remote key switch on plate for enabling common controls (Lock/Unlock).
27193-16	Electrical box, surface mount, white, single-gang, for RKEY.



Technology that saves lives

Intelligent Smoke Detector

KI-OSD



Overview

The Kidde Intelligent Optica Series KI-OSD smoke detector brings advanced optical (photoelectric) sensing technology to a practical design that increases efficiency, saves installation time, cuts costs, and extends life safety and property protection capabilities. Continuous self-diagnostics ensure reliability over the long-haul, while environmental compensation helps reduce maintenance costs.

Like all Kidde Intelligent Optica Series detectors, the KI-OSD is an intelligent device that gathers analog information from multiple optical sensors, converting this data into digital signals. Utilizing dual optical wavelengths combined with multiple detection angles, the KI-OSD differentiates particles that are not representative of actual smoke. Particle data is input into digital filters which feed a series of ratios removing signal patterns that are typical of nuisance sources, thus reducing unwanted alarms. To make an alarm decision, the detector's on-board microprocessor measures and analyzes all optical sensor readings and compares this information to preprogrammed settings.

Standard Features

- Patented multi-criteria optical smoke sensing technology
- Wide 0.5 to 4.36 %/ft. (1.6 to 13.6 %/m) smoke obscuration
- Uses Existing Wiring
- Integrated nuisance rejection reducing unwanted alarms from general cooking particulates
- Listed to UL 268 7th edition
- Automatic Device Mapping
- Up To 250 Total Kidde Intelligent Addresses Per Loop
- Two Levels of Environmental Compensation
- Two Levels of Dirty Detector Warning
- Twenty Pre-Alarm Settings
- Five Sensitivity Settings
- Non-Volatile Memory
- Electronic Addressing
- Environmental compensation
- Automatic Day/Night Sensitivity Adjustment
- Bicolor (Green/Red) Status LED
- Standard, Relay, Fault Isolator, and Audible Mounting Bases
- Sensor Markings Provide Easy Testing Identification

Note: Some features described here may not be supported by all control systems. Check your control panel's Installation and Operation Guide for details.

Application

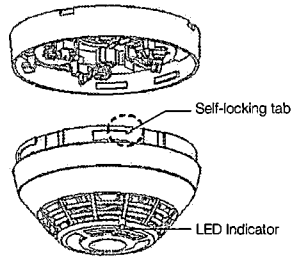
The KI-OSD detects particles from a wide range of combustion sources and will trigger an alarm when smoke density in the chamber reaches preprogrammed level. Thanks to its high-performance patented reflective response technology, the smoke sensor responds quickly and reliably to a wide range of fire types, including both fast and slow burning fires fueled by combustibles typically found in modern multi-use buildings.

Compatibility

The KI-OSD detector is compatible only with control panels using a Kidde Intelligent Loop controller.

Installation

Kidde Intelligent Series detectors mount to North American 1-gang boxes, 3-1/2 inch or 4 inch octagon boxes, and to 4 inch square electrical boxes 1-1/2 inches (38 mm) deep. They mount to European BESA and 1-gang boxes with 60.3 mm fixing centers. See mounting base installation and wiring for more information.



Sensing and reporting technology

The microprocessor in each detector provides additional benefits – Self-diagnostics and History Log, Automatic Device Mapping, and Fast, Stable Communication.

Self-diagnostics and History Log - Each Kidde Intelligent Series detector constantly runs self-checks to provide important maintenance information. The results of the self-check are automatically updated and permanently stored in the detector's non-volatile memory

Automatic Device Mapping - The loop controller learns where each device's serial number address is installed relative to other devices on the circuit. The mapping feature provides supervision of each device's installed location to prevent a detector from being reinstalled (after cleaning, etc.) in a different location from where it was originally.

Fast Stable Communication - On-board intelligence means less information needs to be sent between the detector and the loop controller. Other than regular supervisory polling response, the detector only needs to communicate with the loop controller when it has something new to report.

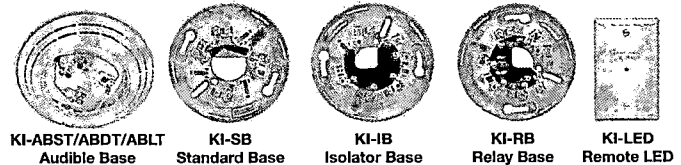
Testing & Maintenance

Each detector automatically identifies when it is dirty or defective and causes a "dirty detector" message. The detector's sensitivity measurement can also be transmitted to the loop controller. A sensitivity report may be printed to satisfy NFPA sensitivity measurements, which must be conducted at the end of the first year and every two years thereafter.

The user-friendly maintenance program shows the current state of each detector and other pertinent messages. Single detectors may be turned off temporarily from the control panel. Availability of maintenance features is dependent on the fire alarm system used.

Accessories

Detector mounting bases have wiring terminals that are accessible from the "room-side" after mounting the base to the electrical box. The bases mount to North American 1-gang boxes and to 3½ inch or 4 inch octagon boxes, 1½ inches (38 mm) deep. They also mount to European BESA and 1-gang boxes with 60.3 mm fixing centers. The KI-SB4, KI-RB4, and KI-IB4 mount to North American 4 inch sq. electrical boxes in addition to the above boxes. They include the KI-TS4 Trim Skirt, which is used to cover the "mounting ears" on the base. The KI-ABST mounts to a 4 inch square box only.



Remote LED GSA-LED - The remote LED connects to the KI-SB or KI-SB4 Standard Base only. It features a North American size 1-gang plastic faceplate with a white finish and red alarm LED.

SIGA-TS4 Trim Skirt - Supplied with 4 inch bases, it can also be ordered separately to use with the other bases to help hide surface imperfections not covered by the smaller bases.

Sounder Bases - Kidde Intelligent Series sounder bases are designed for use where localized or group alarm signaling is required.

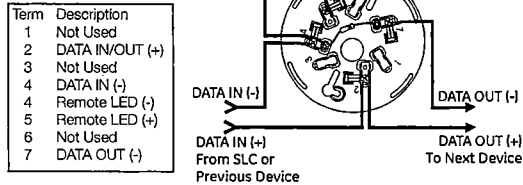
- **KI-ABST** bases provide sounder capability to Kidde Intelligent Series to heat and smoke detectors. They are not intended for use with combination carbon monoxide detectors in Fire-plus-CO mode.
- **KI-ABDT** bases provide sounder capability to Kidde Intelligent Series smoke and heat detectors, as well as carbon monoxide detectors when used with a GSA-T3T4 Temporal Pattern Generator.
- **KI-ABLT** bases provide 520 Hz low frequency sounder capability to Kidde Intelligent Series smoke and heat detectors, as well as carbon monoxide detectors when used with a GSA-T3T4 Temporal Pattern Generator. The KI-ABLT is suitable for applications requiring low frequency audible tones.

Typical Wiring

The detector mounting bases accept #18 AWG (0.75mm²), #16 (1.0mm²), #14 AWG (1.5mm²), and #12 AWG (2.5mm²) wire sizes. Sizes #16 AWG (1.0mm²) and #18 AWG (0.75mm²) are preferred for ease of installation.

Standard Detector Base, KI-SB, KI-SB4

This is the basic mounting base for KIDDE Intelligent Series detectors. The GSA-LED Remote LED is supported by this Base.



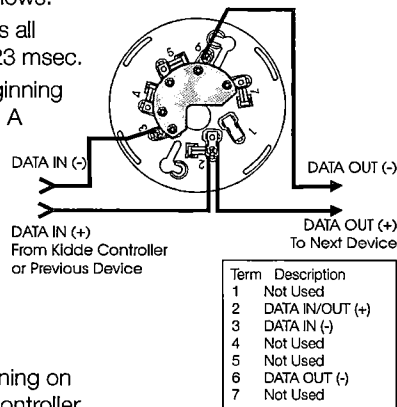
Isolator Detector Base, KI-IB, KI-IB4

This base includes a built-in line fault isolator for use on Class A circuits. A detector must be installed for it to operate. The isolator base does not support the GSA-LED Remote LED.

The isolator operates as follows:

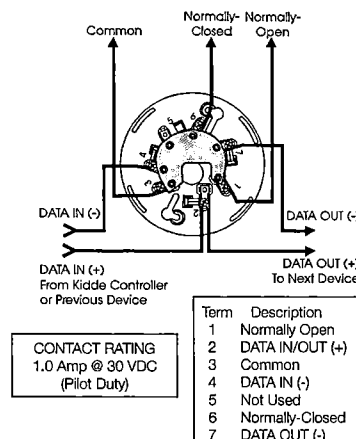
- a short on the line causes all isolators to open within 23 msec.
- at 10 msec intervals, beginning on one side of the Class A circuit nearest the loop controller, the isolators close to provide the next isolator down the line with power.
- when the isolator next to the short closes, it reopens within 10 msec.

The process repeats beginning on the other side of the loop controller.



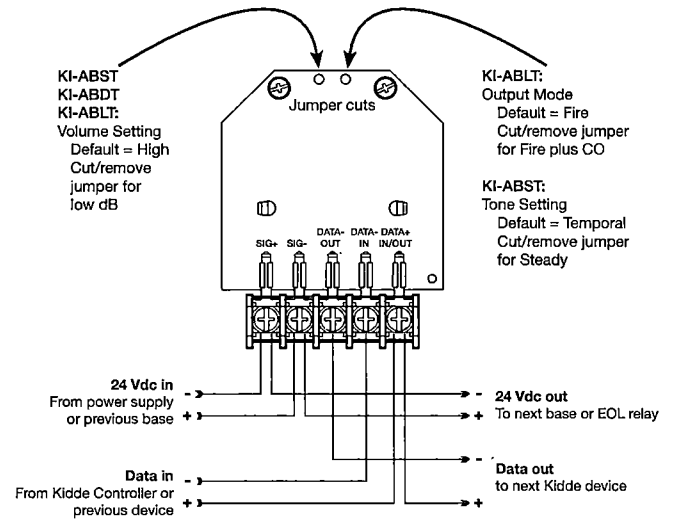
Relay Detector Base, KI-RB, KI-RB4

This base includes a relay. Normally Open or Normally Closed operation is selected during installation. The dry contact is rated for 1 amp (pilot duty) @ 30 Vdc. The relay's position is supervised to avoid accidentally jarring it out of position. The KI-RB can be operated as a control relay if programmed to do so at the control panel. The relay base does not support the GSA-LED Remote LED.



Audible Sounder Bases, Fire Mode

ABST, ABDT, ABLT sounder bases



Warnings & Cautions

- This detector does not operate without electrical power. As fires frequently cause power interruption, discuss further safeguards with the local fire protection specialist.
- This detector does not sense fires in areas where smoke cannot reach the detector. Smoke from fires in walls, roofs, or on the opposite side of closed doors may not reach the detector.
- In Canada, install according to CAN/ULC-S524 Standard for the Installation of Fire Alarm Systems, CSA C22.1 Canadian Electrical Code, and the local authority having jurisdiction.



Technology that saves lives

Contact us

Phone: 888.244.9979 (Option 4)

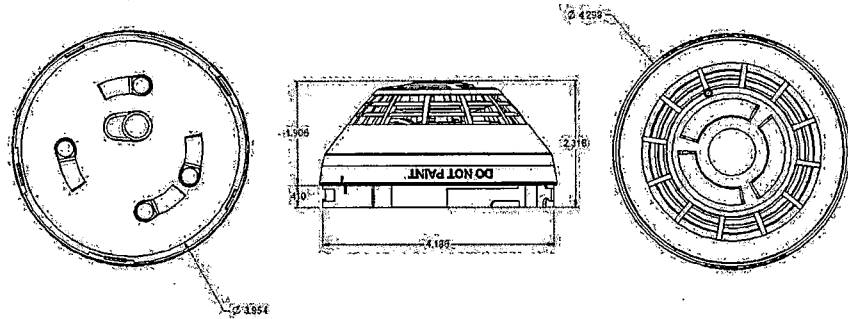
Email: kidde.fire@carrier.com

Website: kidde-esfire.com

Kidde is a Carrier brand.
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Bradenton, FL 34202

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Dimensions



Specifications

Operating voltage	15.20 to 19.95 VDC
Normal operating current	32 μ A
Alarm current	45 μ A
Smoke Sensitivity Range	UL/ULC: 0.5 to 4.36 %/ft. (1.6 to 13.6 %/m) obscuration
Vibration level	10 to 35 Hz, with an amplitude of 0.01 in.
Air velocity	0 to 4,000 ft./min (0 to 20 m/s)
Wall mounting	12 in. (305 mm) max. from ceiling
Compatible bases	See Ordering Information
Compatible detector testers	Testfire 1000, Testfire 2000
Operating environment	32 to 120°F (0 to 49°C), 0 to 93% RH, noncondensing
Construction	High Impact Engineering Polymer, White
Storage temperature	-4 to 140°F (-20 to 60°C)
Environmental compensation	Automatic
Agency Listings	CAN/ULC-S529, UL 268-7, UL 268A, CSFM, FM

Ordering Information

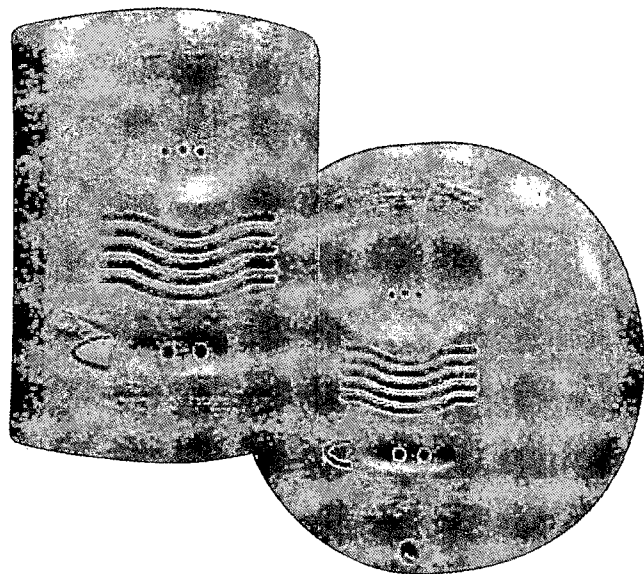
Catalog Number	Description	Ship Wt. lbs (kg)
KI-OSD	Intelligent Optical Smoke Detector	0.4 (0.16)

Accessories		
KI-SB	Detector Mounting Base - Standard	
KI-SB4	4-inch Detector Mounting Base c/w Trim Skirt	
KI-RB	Detector Mounting Base w/Relay	
KI-RB4	4-inch Detector Mounting Base w/Relay, c/w Trim Skirt	0.2 (.09)
KI-IB	Detector Mounting Base w/Fault Isolator	
KI-IB4	4-inch Detector Mounting Base w/ Fault Isolator, c/w Trim Skirt	
GSA-LED	Remote Alarm LED	
KI-ABST	Audible (Sounder) Base for Fire Detectors	0.3 (0.15)
KI-ABLT	Low Frequency Audible (Sounder) Base for CO and/or Fire Detectors	0.3 (0.15)
KI-ABDT	Audible (Sounder) Base for CO and/or Fire Detectors	0.3 (0.15)
GSA-TS4	Trim Skirt (supplied with 4-inch bases)	0.1 (0.04)
GSA-TS	Trim Skirt - (optional for non 4-inch bases)	0.1 (0.04)
GSA-DMP	Detector Mounting Plate	3.0 (1.4)
SIGA-RTA	Detector Removal Tool	
SIGA-VA	Detector Cleaning Tool	



CO1224T and CO1224TR Carbon Monoxide Detectors with RealTest® Technology

The System Sensor CO1224T and CO1224TR (round) Carbon Monoxide (CO) Detectors use a highly accurate and reliable electrochemical sensing cell to provide early warning of dangerous CO levels.



Features

- RealTest® enables a functional test using canned CO
- Full compliance with UL 2075
- A code-required trouble relay
- Wiring supervision with SEMS terminals
- A six-year end-of-life timer
- 12/24 VDC
- A low current draw of 20 mA in standby and 40 mA in alarm
- Versatile mounting for wall and ceiling
- Accurate and reliable electrochemical sensing technology
- Optional CO-PLATE CO Detector Replacement Plate to upgrade previously installed competitor detectors to the CO1224T

With RealTest® technology, the CO gas sensing cell used in the CO1224T and CO1224TR CO detectors can be tested using a CO gas agent, fully meeting the requirements of NFPA 720: 2009. Simply put the detector into RealTest mode, spray a small amount of CO into the detector per the installation instructions, and within seconds the detector will alarm, indicating successful gas entry. (See the reverse page or the user manual for complete instructions.)

When dangerous amounts of CO are detected, the CO1224T and CO1224TR detectors alert residents by sounding and flashing a temp 4 signal alarm. With 24/7 central station monitoring, residents are guaranteed protection whether they are away from home, sleeping, or already suffering from the effects of CO.

The CO1224T and CO1224TR are designed for system operation. These detectors are fully listed to UL 2075 and offer a code-required trouble relay to send a sensor failure or end-of-life signal to the control panel and the central station. The CO1224T and CO1224TR also use SEMS-type terminal Philips head screws for quicker and more positive wiring connections and code-required wiring supervision. With a low current draw, these detectors enable more devices to be connected to the panel, limiting the need to purchase extra power supplies or more expensive panels. As 12/24 VDC detectors, the CO1224T and CO1224TR will operate on most industry security and fire alarm control panels.

Agency Listings



CO1224T and CO1224TR Carbon Monoxide Detector Specifications

Architectural/Engineering Specifications

Carbon monoxide (CO) detector shall be a system-connected System Sensor model number CO1224T or CO1224TR listed to Underwriters Laboratories UL 2075 for Gas and Vapor Detectors and Sensors. The detector shall be equipped with a sounder and a trouble relay. The detector's base shall be able to mount to a single-gang electrical box or direct (surface) mount to the wall or ceiling. Wiring connections shall be made by means of SEMS screws. The detector shall provide dual-color LED indication that blinks to indicate normal standby, alarm, or end-of-life. When the sensor supervision is in a trouble condition, the detector shall send a trouble signal to the panel. When the detector gives a trouble or end-of-life signal, the detector shall be replaced. The detector shall provide a means to test CO gas entry into the CO sensing cell. The detector shall provide this with a test mode that accepts CO gas from a test agent and alarms immediately upon sensing CO entry. The detector shall perform in the detection of CO up to 12,000 feet above sea level and alarm within the time specified by ANSI/UL 2034 for CO concentrations of 70, 150 and 400 parts per million (ppm), as verified by a Nationally Recognized Test Laboratory.

Electrical Specifications

Operating Voltage	12/24 VDC
Audible Signal	85 dB in alarm
Standby Current	20 mA
Alarm Current	40 mA (75 mA test)
Alarm Contact Ratings	0.5 A @ 30 VDC
Trouble Contact Ratings	0.5 A @ 30 VDC

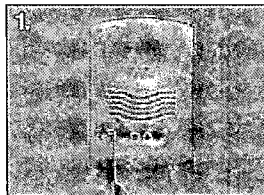
Physical Specifications

Size: CO1224T	Length: 5.1 in, Width: 3.3 in, Height: 1.3 in
CO1224TR	Diameter: 6 in, Height: 1.3 in
Approximate Weight	CO1224T: 7 oz ; CO1224TR: 11 oz
Operating Temperature Range	32°F to 104° F (0°C to 40° C)
Operating Humidity Range	22 to 90% RH
Input Terminals	14 to 22 AWG
Mounting	Single-gang back box; surface mount to wall or ceiling

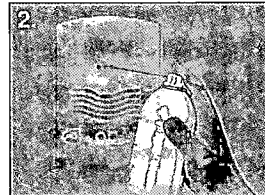
Operation Modes

Operation Mode	Green LED	Red LED	Sounder
Normal (standby)	Blink 1 per minute	—	—
Alarm	—	Blink in temp 4 pattern	Sound in temp 4 pattern

RealTest® Feature: The System Sensor CO1224T and CO1224TR Carbon Monoxide Detectors with RealTest enable evaluation of the functionality of the CO sensing cell using a canned CO test agent.



Push and hold the Test/Hush button for two seconds to enter RealTest mode. The green LED will flash once every second to indicate RealTest mode has started.



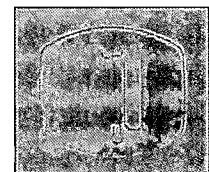
Spray canned CO agent into the detector.



Verify CO sensing at the control panel. The detector will automatically exit RealTest alarm mode after about 20-60 seconds.

NOTE: Check with local codes and the AHJ to determine if a functional gas test is desired for an installation.

Hush Feature: Pushing the Test/Hush button will silence the sounder for 5 minutes (except in RealTest mode).
Trouble Feature: When the detector is in a trouble condition, it will send a trouble signal to the panel.
End-of-Life Timer: After the detector's internal sensor has reached the end of its life, a trouble signal will be sent to the panel to indicate it is time to replace the detector. An electrochemical CO detector lifespan is about six years. The detector must be replaced by the date marked on the inside of the product.
CO-PLATE: System Sensor also offers the CO-PLATE CO Detector Replacement Plate to cover the footprint (when necessary) of previously installed competitive carbon monoxide detectors that require replacement.



CO-PLATE

Ordering Information

Part No.	Description
CO1224T	12/24 volt, 4-wire system-monitored carbon monoxide detector with RealTest® Technology
CO1224TR	12/24 volt, 4-wire system-monitored round carbon monoxide detector with RealTest® Technology
CO-PLATE	CO detector replacement plate to cover the footprint of previously installed competitive detectors as necessary

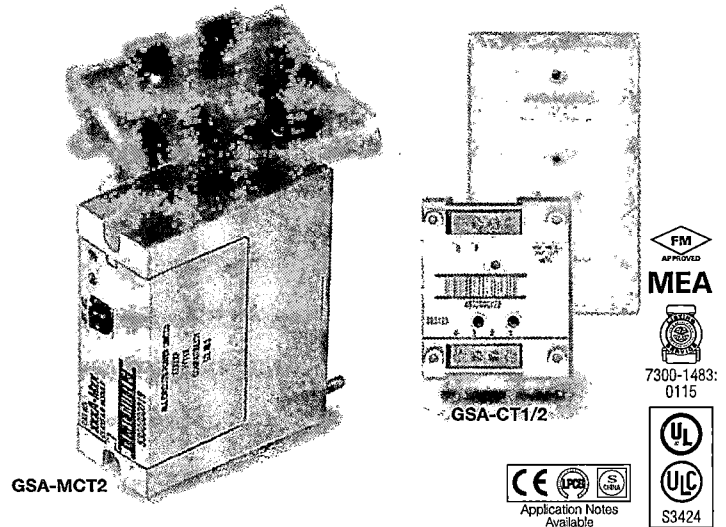


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 SCDS00100 • 4/12

Input Modules

GSA-CT1, GSA-CT1HT,
GSA-CT2, GSA-MCT2



Overview

The GSA-CT1 Single Input Module, GSA-CT1HT High Temperature Single Input Module and GSA-CT2/GSA-MCT2 Dual Input Modules are intelligent analog addressable devices used to connect one or two Class B normally-open Alarm, Supervisory, or Monitor type dry contact Initiating Device Circuits (IDC).

The actual function of these modules is determined by the "personality code" selected by the installer. This code is downloaded to the module from the Signature loop controller during system configuration.

The input modules gather analog information from the initiating devices connected to them and convert it into digital signals. The module's on-board microprocessor analyzes the signal and decides whether or not to input an alarm.

The GSA-CT1, GSA-CT1HT and GSA-CT2 mount to standard North American 1-gang electrical boxes, making them ideal for locations where only one module is required. Separate I/O and data loop connections are made to each module.

The GSA-CT1HT module operates at an expanded temperature range of 32 °F to 158 °F (0 °C to 70 °C) for those applications requiring more extreme environmental temperature variation.

The GSA-MCT2 is part of the UIO family of plug-in Signature Series modules. It functions identically to the GSA-CT2, but takes advantage of the modular flexibility and easy installation that characterizes all UIO modules. Two- and six-module UIO motherboards are available. All wiring connections are made to terminal blocks on the motherboard. UIO assemblies may be mounted in Edwards enclosures.

Standard Features

- **Multiple applications**
Including Alarm, Alarm with delayed latching (retard) for water-flow applications, Supervisory, and Monitor. The installer selects one of four "personality codes" to be downloaded to the module through the loop controller.
- **GSA-CT1HT rated for high temperature environments**
Suitable for attic installation and monitoring high temperature heat detectors.
- **Plug-in (UIO) or standard 1-gang mount**
UIO versions allow quick installation where multiple modules are required. The 1-gang mount version is ideal for remote locations that require a single module.
- **Automatic device mapping**
Signature modules transmit information to the loop controller regarding their circuit locations with respect to other Signature devices on the wire loop.
- **Electronic addressing**
Programmable addresses are downloaded from the loop controller, a PC, or the Signature Program/Service Tool. There are no switches or dials to set.
- **Stand-alone operation**
The module makes decisions and inputs an alarm from initiating devices connected to it even if the loop controller's polling interrogation stops. (Function availability dependent upon control panel.)
- **Ground fault detection by address**
Detects ground faults right down to the device level.

Signature Series Overview

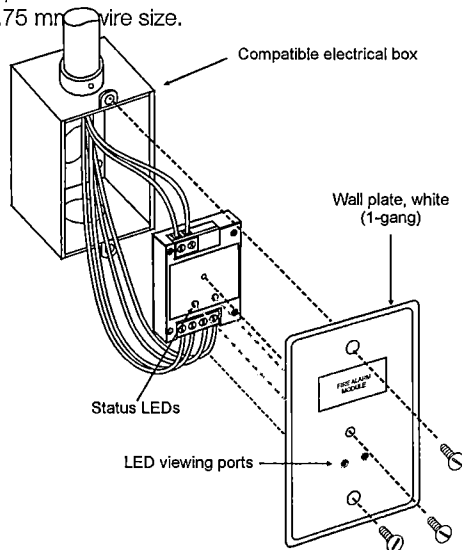
The Signature Series intelligent analog-addressable system from Edwards Security is an entire family of multi-sensor detectors and mounting bases, multiple-function input and output modules, network and non-network control panels, and user-friendly maintenance and service tools. Analog information from equipment connected to Signature devices is gathered and converted into digital signals. An onboard microprocessor in each Signature device measures and analyzes the signal and decides whether or not to input an alarm. The microprocessor in each Signature device provides four additional benefits – Self-diagnostics and History Log, Automatic Device Mapping, Stand-alone Operation and Fast, Stable Communication.

Self-diagnostics and History Log – Each Signature Series device constantly runs self-checks to provide important maintenance information. The results of the self-check are automatically updated and permanently stored in its non-volatile memory. This information is accessible for review any time at the control panel, PC, or using the Signature Program/Service Tool.

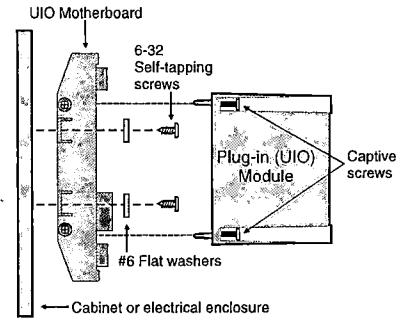
Automatic Device Mapping – The Signature Data Controller (SDC) learns where each device's serial number address is installed relative to other devices on the circuit. The SDC keeps a map of all Signature Series devices connected to it. The Signature Series Data Entry Program also uses the mapping feature. With interactive menus and graphic support, the wired circuits between each device can be examined. Layout or "as-built" drawing information showing branch wiring (T-taps), device types and their address are stored on disk for printing hard copy.

Installation

GSA-CT1, GSA-CT1HT and GSA-CT2: modules mount to North American 2½ inch (64 mm) deep 1-gang boxes and 1½ inch (38 mm) deep 4 inch square boxes with 1-gang covers and GSA-MP mounting plates. The terminals are suited for #12 to #18 AWG (2.5 mm² to 0.75 mm² wire size).



GSA-MCT2: mount the UIO motherboard inside a suitable Edwards enclosure with screws and washers provided. Plug the GSA-MCT2 into any available position on the motherboard and secure the module to the motherboard with the captive screws. Wiring connections are made to the terminals on the motherboard (see wiring diagram). UIO motherboard terminals are suited for #12 to #18 AWG (2.5 mm² to 0.75 mm²) wire size.



Electronic Addressing – The loop controller electronically addresses each module, saving valuable time during system commissioning. Setting complicated switches or dials is not required. Each module has its own unique serial number stored in its on-board memory. The loop controller identifies each device on the loop and assigns a "soft" address to each serial number. If desired, the modules can be addressed using the Signature Program/Service Tool.

Edwards recommends that this module be installed according to latest recognized edition of national and local fire alarm codes.

Application

The duty performed by the GSA-CT1 and GSA-CT2/MCT2 is determined by their sub-type code or "Personality Code". The code is selected by the installer depending upon the desired application and is downloaded from the loop controller.

One personality code can be assigned to the GSA-CT1. Two personality codes can be assigned to the GSA-CT2/MCT2. Codes 1, 2, 3 and 4 can be mixed on GSA-CT2/MCT2 modules only. For example, personality code 1 can be assigned to the first address (circuit A) and code 4 can be assigned to the second address (circuit B).

NORMALLY-OPEN ALARM - LATCHING (Personality Code 1)

- Assign to one or both circuits. Configures either circuit A or B or both for Class B normally open dry contact initiating devices such as Pull Stations, Heat Detectors, etc. An ALARM signal is sent to the loop controller when the input contact is closed. The alarm condition is latched at the module.

NORMALLY-OPEN ALARM - DELAYED LATCHING (Personality Code 2)

- Assign to one or both circuits. Configures either circuit A or B or both for Class B normally-open dry contact initiating devices such as Waterflow Alarm Switches. An ALARM signal is sent to the loop controller when the input contact is closed for approximately 16 seconds. The alarm condition is latched at the module.

NORMALLY-OPEN ACTIVE - NON-LATCHING (Personality Code 3)

- Assign to one or both circuits. Configures either circuit A or B or both for Class B normally-open dry contact monitoring input such as from Fans, Dampers, Doors, etc. An ACTIVE signal is sent to the loop controller when the input contact is closed. The active condition is not latched at the module.

NORMALLY-OPEN ACTIVE - LATCHING (Personality Code 4)

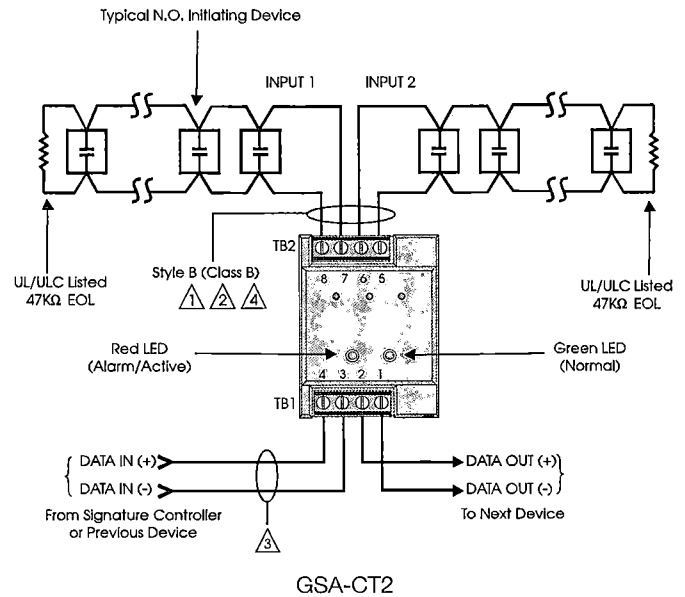
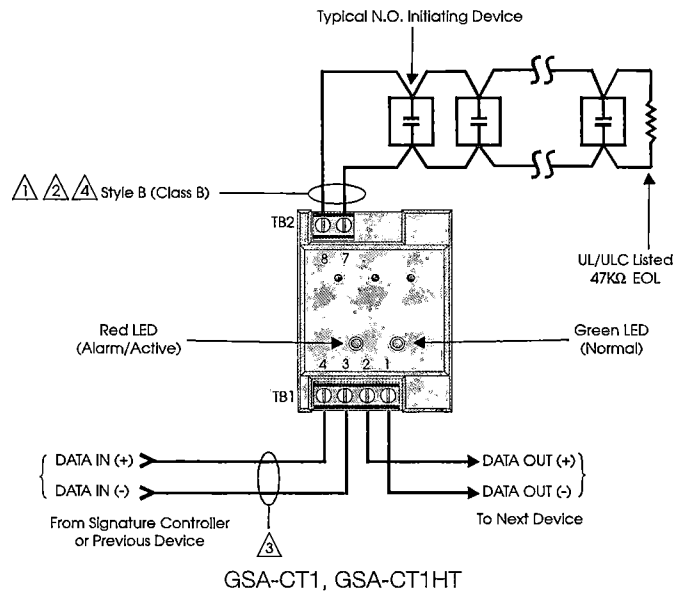
- Assign to one or both circuits. Configures either circuit A or B or both for Class B normally open dry contact monitoring input such as from Supervisory and Tamper Switches. An ACTIVE signal is sent to the loop controller when the input contact is closed. The active condition is latched at the module.

Typical Wiring

Modules will accept #18 AWG (0.75mm²), #16 (1.0mm²), and #14AWG (1.50mm²), and #12 AWG (2.50mm²) wire sizes.

Note: Sizes #16 AWG (1.0mm²) and #18 AWG (0.75mm²) are preferred for ease of installation. See Signature Loop Controller catalog sheet for detailed wiring requirement specifications.

Initiating (Slave) Device Circuit Wire Specifications		
Maximum Allowable Wire Resistance	50 ohms (25 ohms per wire) per Circuit	
Maximum Allowable Wire Capacitance	0.1µF per Circuit	
For Design Reference:	Wire Size	Maximum Distance to EOLR
	#18 AWG (0.75 mm ²)	4,000 ft (1,219 m)
	#16 AWG (1.00 mm ²)	
	#14 AWG (1.50 mm ²)	
	#12 AWG (1.50 mm ²)	



NOTES

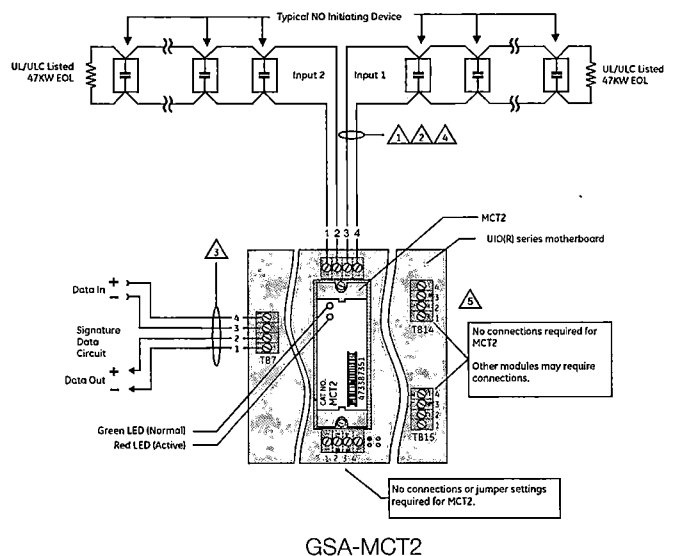
- 1 Maximum 25 Ohm resistance per wire.
- 2 Maximum #12 AWG (2.5 mm²) wire; Minimum #18 AWG (0.75 mm²).
- 3 Refer to Signature controller installation sheet for wiring specifications.
- 4 Maximum 10 Vdc @ 350 µA
- 5 The GSA-UIO6R and the GSA-UIO2R do not come with TB14.
- 6 All wiring is supervised and power-limited.
- 7 These modules will not support 2-wire smoke detectors.

Warnings & Cautions

This module will not operate without electrical power. As fires frequently cause power interruption, we suggest you discuss further safeguards with your local fire protection specialist.

Compatibility

The Signature Series modules are compatible only with Vigilant's Signature Loop Controller.





Contact us...

Email: edwards.fire@fs.utc.com

Web: www.vigilant-fire.com

Vigilant is an **EDWARDS** brand.

1016 Corporate Park Drive
Mebane, NC 27302

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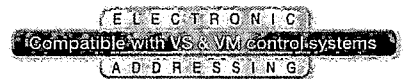
Specifications

Catalog Number	GSA-CT1HT	GSA-CT1	GSA-CT2	GSA-MCT2
Description	Single Input Module		Dual Input Module	
Type Code	48 (factory set) Four sub-types (personality codes) are available		49 (factory set) Four sub-types (personality codes) are available	
Address Requirements	Uses One Module Address		Uses Two Module Addresses	
Operating Current	Standby = 250µA; Activated = 400µA		Standby = 396µA; Activated = 680µA	
Operating Voltage	15.2 to 19.95 Vdc (19 Vdc nominal)			
Construction	High Impact Engineering Polymer			
Mounting	North American 2½ inch (64 mm) deep one-gang boxes and 1½ inch (38 mm) deep 4 inch square boxes with one-gang covers and GSA-MP mounting plates			UIO2R/6R/6 Motherboard
Operating Environment	32°F to 158°F (0°C to 70°C)	32°F to 120°F (0°C to 49°C)		
Storage Environment	-4°F to 140°F (-20°C to 60°C); Humidity: 0 to 93% RH			
LED Operation	On-board Green LED - Flashes when polled; On-board Red LED - Flashes when in alarm/active. Both LEDs - Glow steady when in alarm (stand-alone)			
Compatibility	Use with Signature Loop Controller			
Agency Listings	UL, ULC, MEA, CSFM			

Ordering Information

Catalog Number	Description	Ship Wt. lbs (kg)
GSA-CT1	Single Input Module — UL/ULC Listed	0.4 (0.15)
GSA-CT1HT	Single Input Module High Temperature Operation UL/ULC Listed	0.4 (0.15)
GSA-CT2	Dual Input Module — UL/ULC Listed	0.4 (0.15)
GSA-MCT2	Dual Input Plug-in (UIO) Module — UL, ULC Listed	0.1 (0.05)

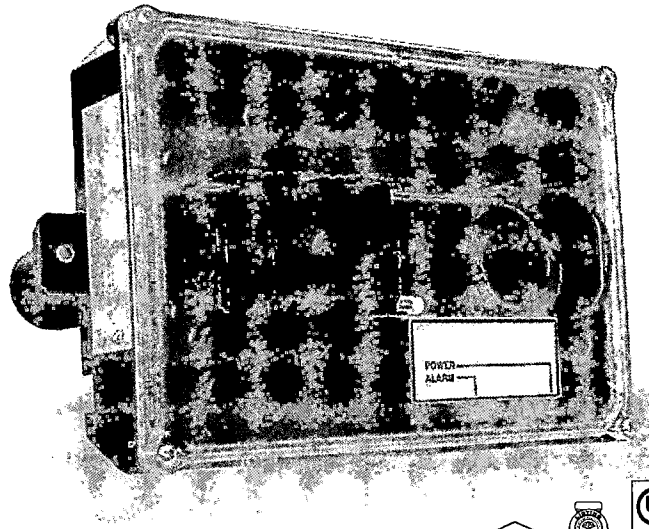
Related Equipment		
27193-11	Surface Mount Box - Red, 1-gang	1.0 (0.6)
27193-16	Surface Mount Box - White, 1-gang	1.0 (0.6)
GSA-UIO2R	Universal Input-Output Module Board w/Riser Inputs — Two Module Positions	0.32 (0.15)
GSA-UIO6R	Universal Input-Output Module Board w/Riser Inputs — Six Module Positions	0.62 (0.28)
GSA-UIO6	Universal Input-Output Module Board — Six Module Positions	0.56 (0.25)
MFC-A	Multifunction Fire Cabinet — Red, supports Signature Module Mounting Plates	7.0 (3.1)
GSA-MB4	Transponder Mounting Bracket (allows for mounting two 1-gang modules in a 2-gang box)	0.4 (0.15)
GSA-MP1	Signature Module Mounting Plate, 1 footprint	1.5 (0.70)
GSA-MP2	Signature Module Mounting Plate, 1/2 footprint	0.5 (0.23)
GSA-MP2L	Signature Module Mounting Plate, 1/2 extended footprint	1.02 (0.46)



Technology that saves lives

Intelligent Duct Smoke Detector

GSA-SD



Overview

The Kidde *SuperDuct* Signature Series smoke detector is the most advanced and most reliable device in its class. Designed for easy installation and superb reliability, *SuperDuct* represents the perfect balance of practical design and advanced technology.

SuperDuct detectors feature a unique design that speeds installation and simplifies maintenance. Removable dust filters, conformally coated circuit boards, and optional water-resistant gaskets keep contaminants away from components, ensuring years of trouble-free service. When cleaning is required, the assemblies come apart easily and snap back together in seconds.

A **Signature Series photoelectric sensor** is incorporated into the design of each GSA-SD duct smoke detector. This sensor inherits the power and benefits of this exceptional line of intelligent devices.

Signature Series sensors gather analog information from their smoke sensing elements and convert it into digital signals. The sensor measures and analyses these signals and compares the information to historical readings and time patterns to make an alarm decision. Digital filters remove signal patterns that are not typical of fires, which virtually eliminates unwanted alarms.

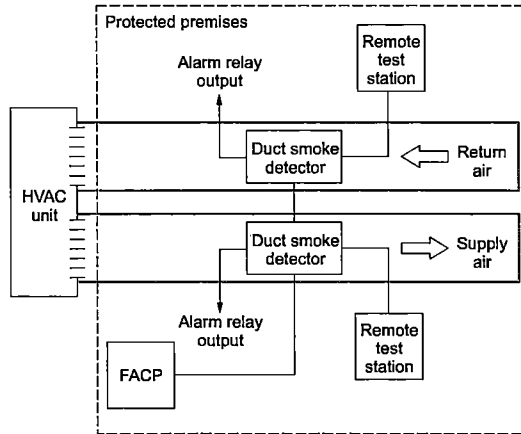
WARNING: Duct detectors have specific limitations. Duct detectors are not a substitute for an open area smoke detector. Duct detectors are not a substitute for early warning detection or a replacement for a building's regular fire detection system. Smoke detectors are not designed to detect toxic gases which can build up to hazardous levels in some fires. These devices will not operate without electrical power. As fires frequently cause power interruptions, Kidde suggests you discuss further safeguards with your local fire protection specialist.

Standard Features

- Less than 2" deep for easy installation and applications where space is tight
- -20°F to 158°F (-29°C to 70°C) operating range with 100 ft/min. to 4,000 ft/min air velocity rating assures reliability under harsh environmental conditions
- Status LEDs remain visible through clear assembly cover
- Cover monitor switch for added security
- Standard sampling tube spacing for easy drop-in migration from other detectors
- Sampling tube can be installed with or without the cover in place and can be rotated in 45-degree increments to ensure proper alignment with duct airflow
- 15.2 to 19.95 Vdc operation
- Magnet-activated test switch
- One Form C auxiliary alarm relay for controlling ancillary equipment (e.g., HVAC controls)
- No special tools required for easy access to field connections
- Signature Series intelligence
- Environmental compensation with differential sensing for reliable, stable, and drift-free sensitivity
- Wide 0.79% to 2.46% obscuration/ft. smoke sensitivity
- Identification of dirty or defective detectors

Application

SuperDuct detectors are ideally suited to duct smoke detection applications where early indication of combustion is required within the confined space of ventilation ductwork. Its primary purpose is to provide early warning of an impending fire and to prevent smoke from circulating throughout the building. It is typically used to detect smoke in the supply side of the HVAC system but can provide supervision of the return side as well.



SuperDuct detectors continually sample air flow in the HVAC duct and initiate an alarm condition whenever smoke is detected. An alarm is activated when the quantity (percent obscuration) of combustion products in that air sample exceeds the detector's sensitivity setting.

Signature Series Intelligence

Like all Signature detectors, the GSA-SD features electronic addressing and issues a dirty sensor warning when it reaches its preset limit. The dirty sensor warning indicates the sensor is operating within its specified limits but is in need of servicing. When the detector's ability to compensate for environmental changes has reached its limit, the duct smoke detector signals a trouble condition.

The GSA-SD also uses differential sensing to prevent gradual environmental changes from triggering unwanted alarms. A rapid change in environmental conditions, such as smoke from a fire, causes the detector to signal an alarm state, but dust and debris accumulated over time does not change alarm sensitivity.

Each Signature Series *SuperDuct* detector contains a microprocessor that performs comprehensive self-diagnostics and stores the results in nonvolatile memory. Stored results include details such as hours of operation, last maintenance date, and number of alarms and troubles. This information can be retrieved and reviewed when desired.

Detector Configuration

The detector assembly cover provides easy access to the smoke sensor, its wiring connections, sample and exhaust tubes, and the smoke chamber itself.

Air enters the detector's sensing chamber through a sampling tube (ordered separately) that extends into the duct and is directed back into the ventilation system through an exhaust tube (included). The difference in air pressure between the two tubes pulls the sampled air through the sensing chamber. When a sufficient amount of smoke is detected in the sensing chamber, the detector initiates an alarm.

The sampling tube may be installed from either the duct side of the assembly or from inside the sensor compartment, as preferred by the installer. (The exhaust tube must be installed from the duct side.) Sampling tubes may be rotated in 45-degree increments so that air-holes can be aligned to allow the unit to be mounted at virtually any angle relative to the air flow.

In installations where the duct smoke detector's controls and indicators are hidden from view, a remote test station or an LED indicator can be connected to the detector to provide these functions.

Remote Test Stations

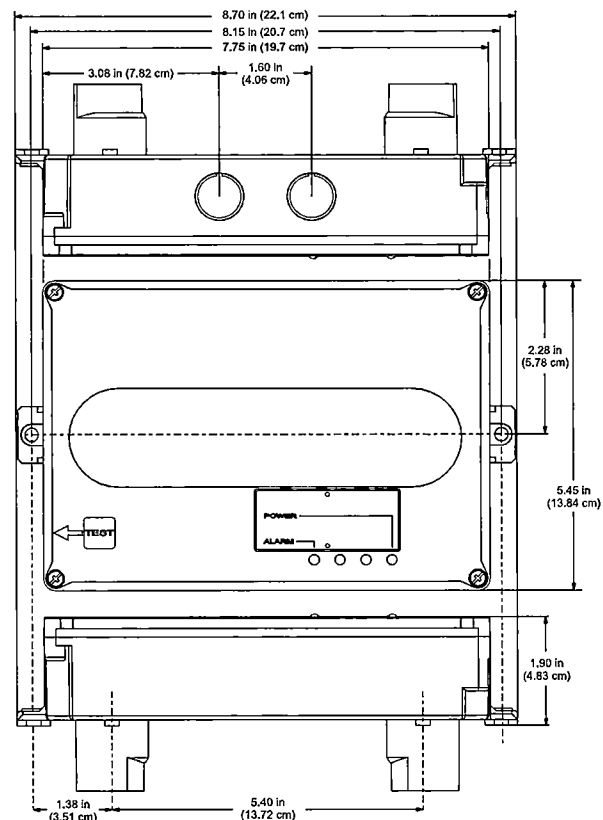


Labor-saving Remote Test/Reset stations provide alarm testing from the convenience of a remote location. Tests can be performed quickly and safely – without having to climb to the roof. Magnetically-operated and key-operated one-gang models are available. Signature *SuperDuct* detectors are also compatible with GSA-LED remote alarm LED.

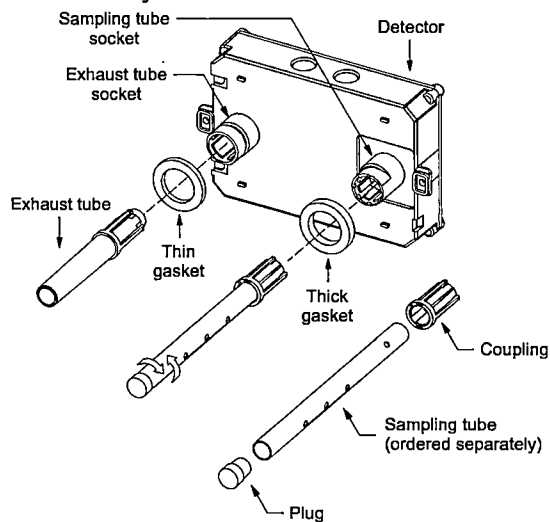
Air velocity in the duct as low as 100 ft/min. maintains adequate air flow into the sensor smoke chamber through air holes in the air sampling tube and discharges through the exhaust tube. *SuperDuct* air sampling tubes must be installed with the inlet holes facing the airstream. Sampling tubes may be rotated in 45-degree increments so that air-holes can be aligned to allow the unit to be mounted in virtually any angle relative to the airflow.

SuperDuct sensors are engineered to operate optimally under the harsh environmental conditions frequently found in HVAC ductwork. Nonetheless, before installing the detector, test the duct air velocity, temperature, and humidity to verify that it is within the operating range of the *SuperDuct* detector. Consult the *SuperDuct* installation sheet for details.

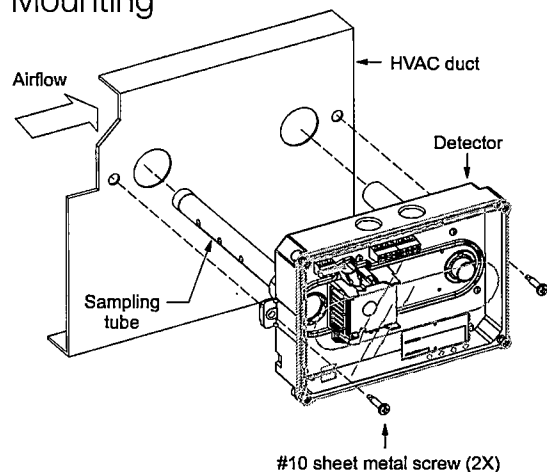
Dimensions



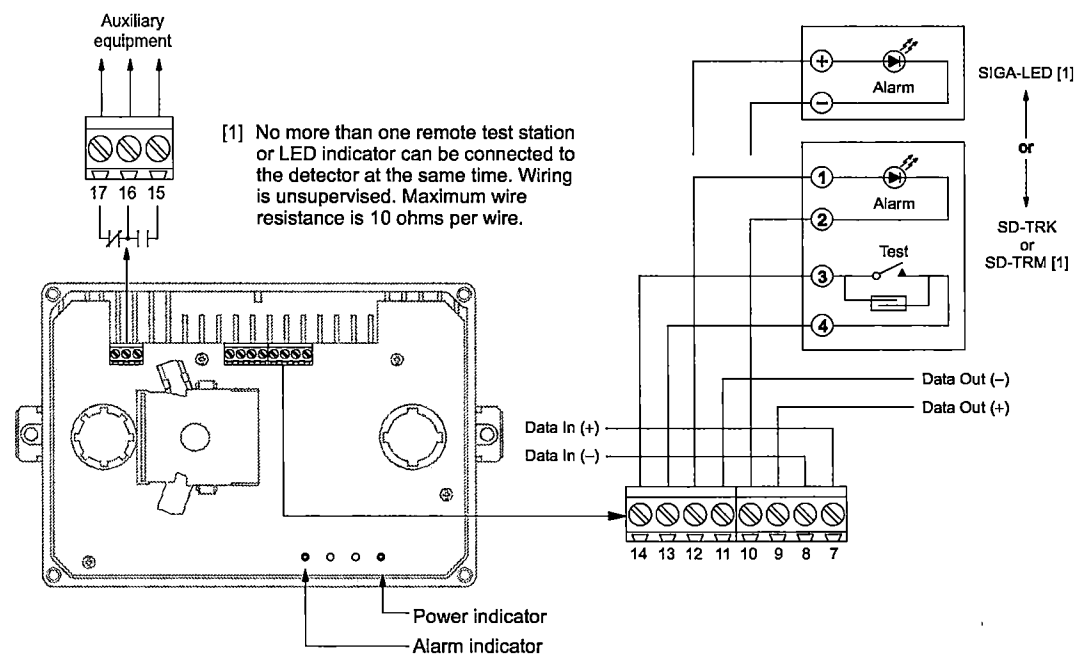
Assembly



Mounting

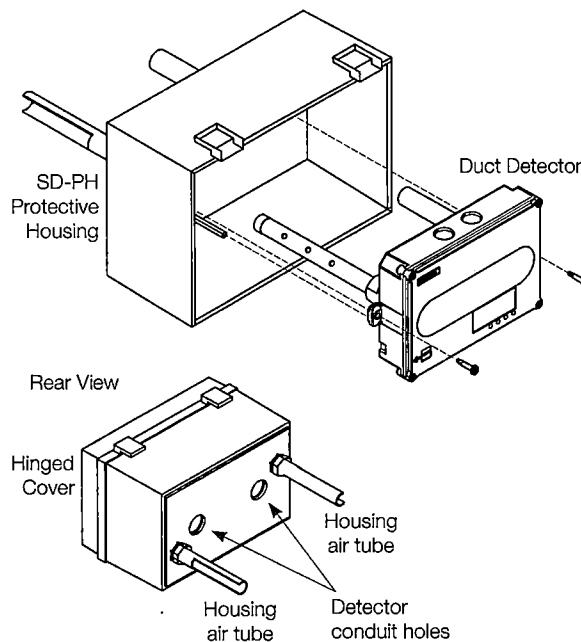


Wiring



High-humidity environments

Use the SD-PH Protective Housing when installing SuperDuct detectors in high-humidity environments. The SD-PH is a weatherized housing that prevents condensation on the device by insulating the detectors and providing circulated air from the monitored HVAC duct. The SD-PH also adds a layer of protection against physical damage to the unit.



The SD-PH is easy to install and service. The hinged and transparent cover provides ready access to the detector, while keeping its status indicators visible at all times.

Note: The SD-PH Protective Housing is weatherized against outdoor air, but it is not intended for direct outdoor exposure.



Technology that saves lives

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Specifications, detector

Dimensions	8.70 x 5.45 x 1.90 inches (221 x 138 x 48 mm)
Wire size	14 to 22 AWG
Detection method	Photoelectric (light scattering principle)
Air velocity rating	100 to 4,000 ft/min and meets the required minimum air pressure differential
Air pressure differential	0.005 to 1.00 inches of water
Sensitivity	0.79 to 2.46 %/ft obscuration
Alarm test response time	5 seconds
LED indicators	Alarm (red), Power (green)
Common alarm relay	Unsupervised and power- limited Quantity: 1 Type: Form C Ratings: 2.0 A at 30 Vdc (resistive)
Operating voltage	15.2 to 19.95 Vdc
Operating current	Standby: 45 µA Alarm: 45 µA Inrush: 1 mA Standalone alarm: 18 mA
Operating environment	Temperature (UL): -20 to 158 °F (-29 to 70 °C). Temperature (ULC): -4 to 120 °F (-29 to 49 °C) Relative humidity: 10 to 93%, noncondensing
Agency listings	UL, ULC, CSFM, FM, MEA

Specifications, test stations

Remote Test/Reset Stations provide alarm test, trouble indication, and reset capability from a remote location. They include a one-gang plate, momentary SPST switch, red alarm LED, and terminal block. Magnetically-operated models (TRM) or key-operated models (TRK) are available.	
Compatible electrical boxes	North American 1-gang box Standard 4-in square box, 1-1/2 inches deep, with 1-gang cover
LED indicators	Alarm (red)
LED type	Clear lens
Wire size	14 to 22 AWG
Resistance per wire	10 Ohms, max.
Current requirements	See controller specifications
LED circuit ratings	Voltage: 3 Vdc, max. Current: 30 mA, max.
Switch ratings (SD-TRK)	Voltage: 125 Vdc, max. Current: 4 A, max.
Switch ratings (SD-TRM)	Voltage: 200 Vdc, max. Current: 0.5 A, max.
Compatible detectors	SuperDuct conventional two-wire and Signature duct smoke detectors
Operating environment	-4°F to 158°F (-20°C to 70°C) Humidity: 93% RH, noncondensing
Storage temperature	-4 to 140 °F (-20 to 60 °C)
Agency listings	UL, ULC, MEA, CSFM

Ordering Information

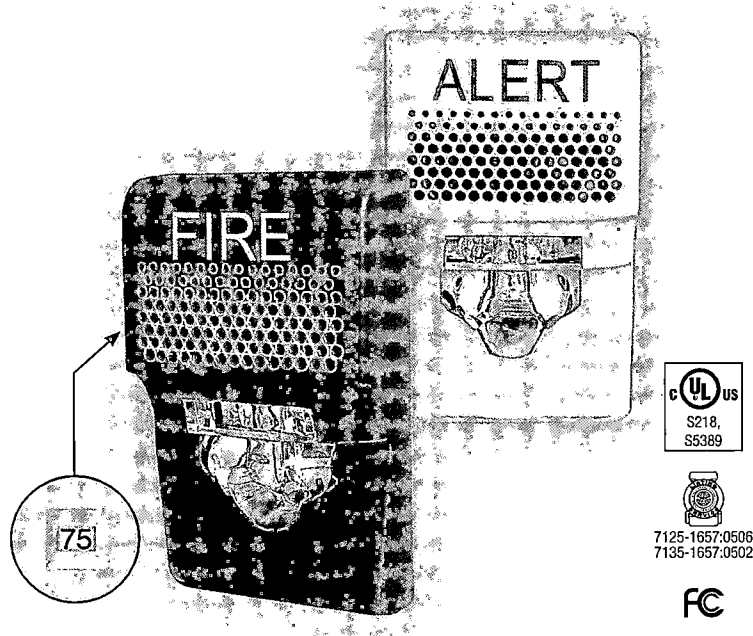
Catalog Number	Description	Ship Wt., lb. (kg)
GSA-SD	Intelligent SuperDuct Detector	2.4 (1.1)
Accessories		
SD-T8	8-inch sampling tube	0.5 (0.2)
SD-T18	18-inch sampling tube	1.5 (0.7)
SD-T24	24-inch sampling tube	2.7 (1.2)
SD-T36	36-inch sampling tube	3.0 (1.4)
SD-T42	42-inch sampling tube	3.5 (1.6)
SD-T60	60-inch sampling tube	5.8 (2.6)
SD-T78	78-inch sampling tube	7.5 (3.4)
SD-T120	120-inch sampling tube	11.5 (5.2)
SD-PH	Protective housing for high humidity environments	5.5 (2.5)
GSA-LED	Remote alarm LED	1.0 (0.5)
SD-TRM	Remote test station, magnetic	1.0 (0.5)
SD-TRK	Remote test station, keyed	1.0 (0.5)
SD-VTK	Air velocity test kit (stoppers only, etc)	1.0 (0.5)
SD-GSK	Cover gasket kit	0.5 (0.2)
SD-MAG	Test magnet kit	0.5 (0.2)
GSA-SDPCB	Replacement PCB/Signature sensor kit	1.0 (0.5)



Technology that saves lives

Genesis LED EG1 Series

Compact Notification Devices



Overview

Genesis LED EG1 Series horns and LED strobes feature a sleek low profile design and energy-efficient technology that makes them less expensive to install and operate by reducing overhead. High performance LEDs require fewer circuits and power supplies. These new appliances are designed with energy-efficiency and life safety in mind.

Genesis LED EG1 Series uses high efficiency optics, combined with patented electronics, to deliver a highly controlled and efficiently focused light distribution pattern in exchange for lower current requirements. Strobes feature field-selectable 15, 30, or 75 cd light output.

Compared with Xenon-type strobes, Genesis LED EG1 Series appliances need fewer power supplies and often smaller wire gauge, which lightens conduit requirements. They are also backwards compatible with legacy strobes, so there's no need to replace all your existing devices to upgrade to new LED technology. In fact, EG1 strobes can be mixed on the same circuit and used in the same field of view as Xenon-based strobes. This makes Genesis LED EG1 Series ideal for new installations and retrofits alike.

Field-configurable sound output levels provide the flexibility modern life safety projects demand, while the Genesis LED control protocol keeps multiple strobes on compatible NAC circuits synchronized to well within NFPA 72 requirements.

Serviceability is another area where EG1 Series appliances shine. The innovative under-cover diagnostic test points provide easy access to device circuit testing while mounted.

Standard Features

- **High Performance LED Strobe Technology**
 - Ultra low device current consumption
 - High efficiency optics
 - Selectable 15, 30, or 75 cd light output
 - LED devices may be mixed with legacy Xenon strobes
- **Efficient Audible Output**
 - Selectable high or low dB horn output
 - Selectable temporal or steady horn output
 - Improved audio frequency range for better wall penetration
- **Low-profile Design**
 - Compact design—single gang mounting
 - Ultra-slim—protrudes about 1" from the mounting surface
 - Attractive appearance—no visible mounting screws
- **Multiple Cover Options**
 - Order with FIRE markings or no FIRE markings in both red and white
 - Change markings at any time with quick-swap covers
- **Easy to Install**
 - Diagnostic test points streamline device circuit testing
 - Fits standard 1-gang electrical boxes, no trim ring needed
 - Optional trim ring available for 4-inch square boxes
 - Slide switches for field configuration
 - 12 to 18 AWG in-out screw terminals for quick wiring

Application

Strobes

Genesis LED EG1 Series strobes are UL 1971-listed for use indoors as wall-mounted public-mode notification appliances for the hearing impaired. Prevailing codes require strobes to be used where ambient noise conditions exceed 105 dBA (87 dBA in Canada), where occupants use hearing protection, and in areas of public accommodation as defined in the *Americans with Disabilities Act*.

Synchronization is important in order to avoid epileptic sensitivity. All Genesis LED strobes exceed UL synchronization requirements (within 10 milliseconds over a two-hour period) when used with a synchronization source. See the specifications table for a list of compatible sources.

Horns

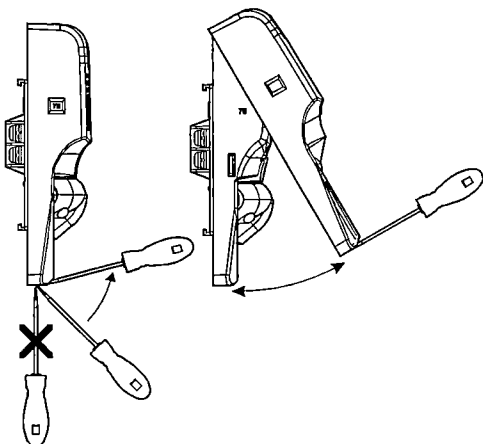
Genesis LED horn output reaches as high as 92 dBA and features an improved audio frequency range compared with other Genesis LED horns. This results in excellent sound penetration through walls and a clear warning of danger. They can also be set for high or low dBA output. This setting reduces horn output by about 6 dBA. Horn-only models may be ceiling-mounted or wall-mounted and may be configured for either coded or non-coded notification appliance circuits.

The suggested sound pressure level for each signaling zone used with alarm signals is at least 15 dBA above the average ambient sound level, or 5 dBA above the maximum sound level having a duration of at least 60 seconds, whichever is greater. These values are measured at five feet (1.5 m) above the floor. The average ambient sound level is A-weighted, fast response sound pressure measured over a 24-hour period.

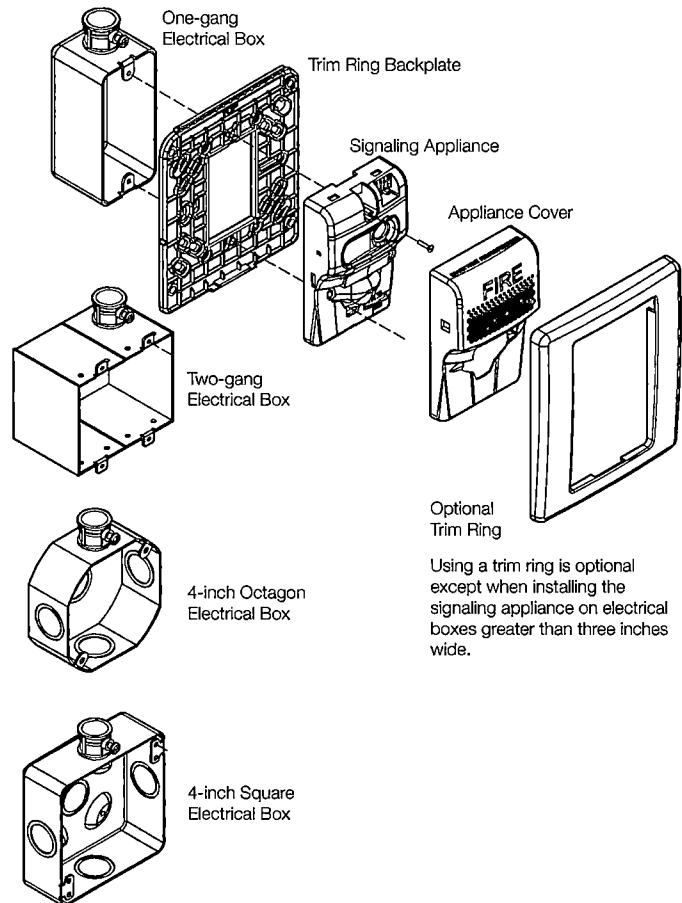
Doubling the distance from the signal to the ear will theoretically result in a 6 dBA reduction of the received sound pressure level. The actual effect depends on the acoustic properties of materials in the space. A 3 dBA difference represents a barely noticeable change in volume.

Installation

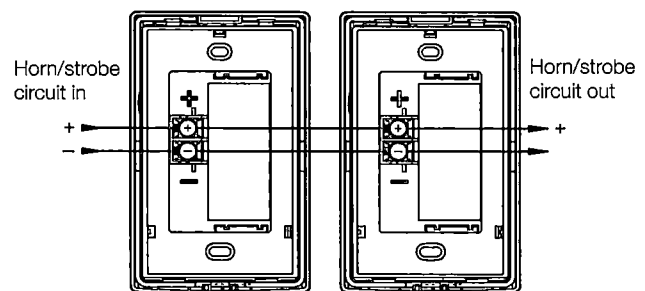
All Genesis LED devices come with mounting screws for easy installation. The tab at the bottom of the device unlocks the cover to reveal the mounting holes. The shallow depth of Genesis LED devices leaves ample room behind them for extra wiring. Once installed with the cover in place, no mounting screws are visible.



Genesis LED EG1 Series horns and strobes mount to any standard one-gang surface or flush electrical box. Matching optional EG1T trim rings are available to cover oversized openings and can accommodate one-gang or four-inch square boxes. Optional color matched single-gang surface boxes are also available.



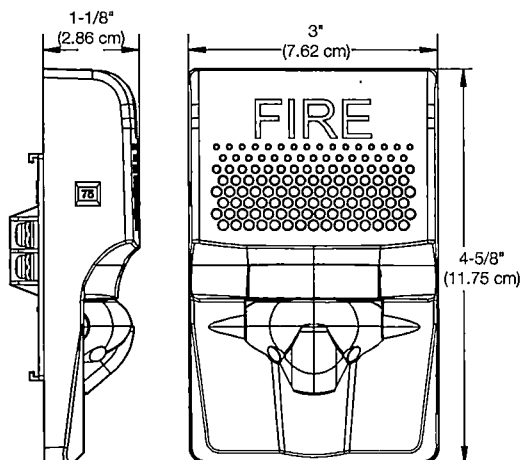
Wiring



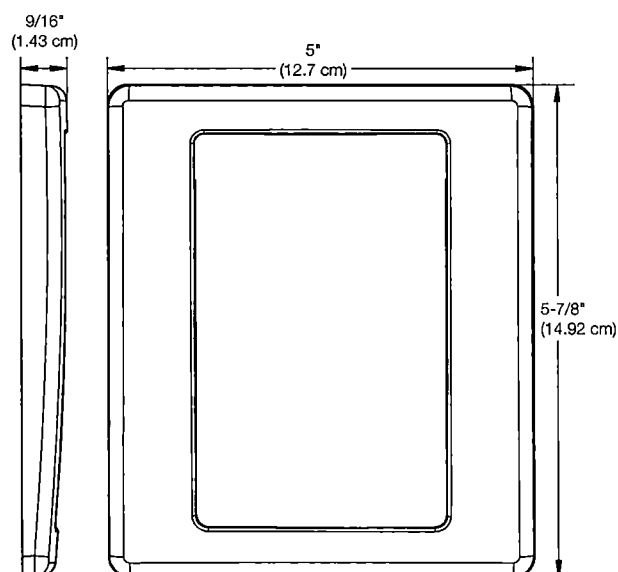
Signal polarity shown in the active condition.

Dimensions

EG1 Notification Appliances



EG1T Trim Ring

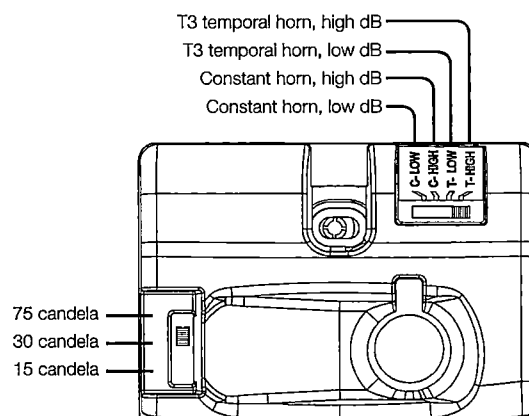


Field Configuration

Temporal horn and horn-strobe models are factory set to sound in a three-pulse temporal pattern. By sliding the tone selector switch, horn-only units may be configured for constant horn output that can be coded at precise intervals by KIDDE control panels and control modules.

Horns and horn-strobes are factory set for high dB output. Low dB output may be selected by sliding the tone selector switch. This reduces the output by about 6 dBA.

Genesis LED clear strobes and horn-strobes may be set for 15, 30, or 75 candela output. The output setting is changed by simply removing the cover and sliding the candela switch to the desired setting. The device does not have to be removed from the wall to change the output setting. The setting remains visible through a small window on the left-hand side of the device after the cover is closed.



Operating current

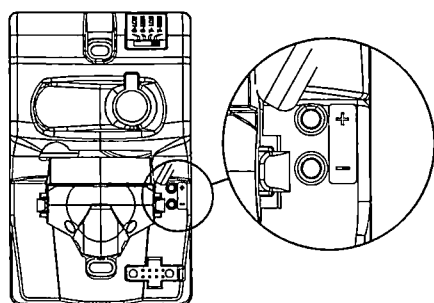
Horns

Sound setting	16 to 33 VDC	16 to 33 VFWR
C-LOW	13 mA	15 mA
C-HIGH	23 mA	29 mA
T-LOW	13 mA	15 mA
T-HIGH	23 mA	29 mA

Strobes

Strobe setting	16 to 33 VDC	16 to 33 VFWR
15, 30, 75	24 mA	32 mA

Diagnostics



Test points indicated above are used to validate the Notification Appliance Circuit and verify device function.

Horn-Strobes

Strobe setting	Sound setting	16 to 33 VDC	16 to 33 VFWR
15, 30, 75	C-Low, T-Low	35 mA	43 mA
	C-High, T-High	45 mA	55 mA

Sound Output

Reverberant dBA (UL 464)

Sound setting	Horn	Horn-strobe
C-LOW	80	80
C-HIGH	86	86
T-LOW	80	80
T-HIGH	86	86

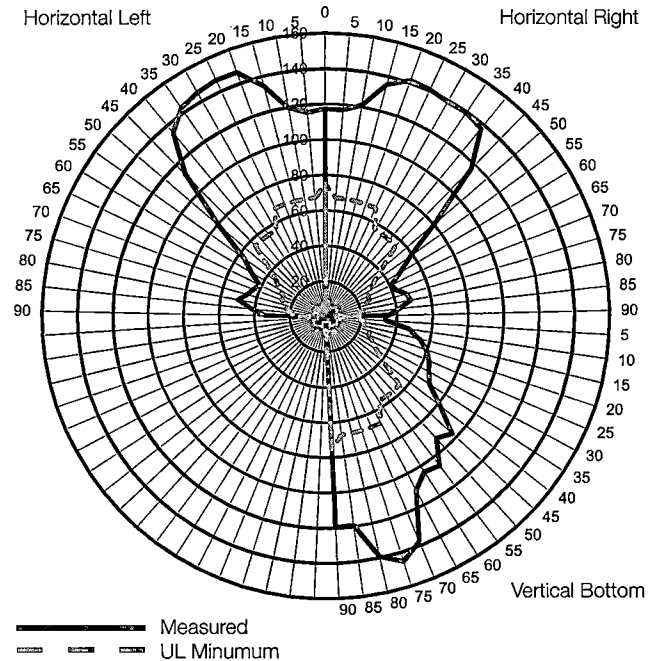
Anechoic dBA (CAN/ULC-S525)

Sound setting	Horn	Horn-strobe
C-LOW	86	86
C-HIGH	92	92
T-LOW	86	86
T-HIGH	92	92

Sound pattern (ULC)

Axis	Angle	Change in output
Horizontal	45° and 115°	-3 dBA
	5° and 130°	-6 dBA
Vertical	65° and 135°	-3 dBA
	45° and 140°	-6 dBA

Light Distribution



Specifications

Operating voltage	16 to 33 VDC, 16 to 33 VFWR
Horn signal type	Constant or T3 temporal
Light output	15, 30, or 75 candela
Strobe flash rate	1 fps (flash per second) approx.
Synchronization	20 Ω max. between any two devices. (To determine allowed wire resistance, refer to these specifications, and the specifications for the synchronized signal source.)
Synchronization sources	KIDDE CC Series Signal Modules, Booster and Auxiliary Power Supplies, and Intelligent and Conventional Control Panels
Wire size	12 to 18 AWG (0.75 to 2.50 mm ²)
Dimensions (WxHxD)	3 x 4-5/8 x 1-1/8 in. (7.62 x 11.75 x 2.86 cm)
Strobe-to-box center offset	-0.71 inches (-1.8 cm)
Compatible electrical boxes [1]	1-gang, 2-gang, 4-inch octagon, 4-inch square
Trim rings	EG1TR, EG1TW - Dimensions 5 x 5-7 x 9/16 in. (12.7 x 14.92 x 1.43 cm)
Agency Listings	FCC, ICC, UL1971, UL1638, UL464, CSFM (All models comply with ADA code of federal regulation Chapter 28 Part 36 final rule)
Operating environment	
Temperature	32 to 122°F (0 to 50°C)
Relative humidity	0 to 93% noncondensing

[1] Electrical boxes must be at least 1-1/2 in. (3.81 cm) deep. Electrical boxes greater than three inches wide require a trim ring.

Ordering Information

Notification Appliances

 Horns Selectable High/low dB	EG1ARF	Red	FIRE
	EG1ARN	Red	None
	EG1AWF	White	FIRE
	EG1AWN	White	None
 Strobes Selectable 15, 30, 75 cd	EG1VRF	Red	FIRE
	EG1VRN	Red	None
	EG1VWF	White	FIRE
	EG1VWN	White	None
 Horn-strobes Selectable 15, 30, 75 cd, High/low dB	EG1AVRF	Red	FIRE
	EG1AVRN	Red	None
	EG1AVWF	White	FIRE
	EG1AVWN	White	None

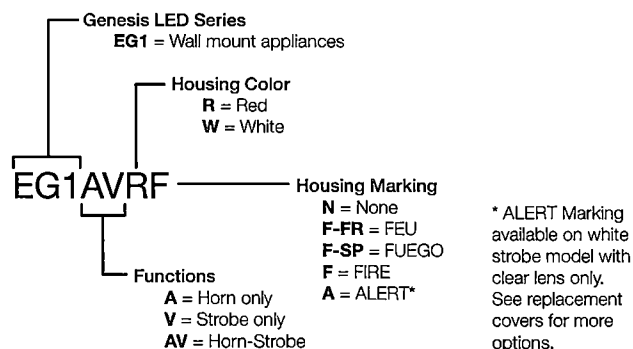
Replacement Appliance Covers

 Horn Covers	EG1ARN-CVR	Red	None
	EG1AWA-CVR	White	ALERT
	EG1AWN-CVR	White	None
 Strobe Covers	EG1VRN-CVR	Red	None
	EG1VWA-CVR	White	ALERT
	EG1VWN-CVR	White	None
 Horn-strobe Covers	EG1AVRN-CVR	Red	None
	EG1AWA-CVR	White	ALERT
	EG1AWN-CVR	White	None

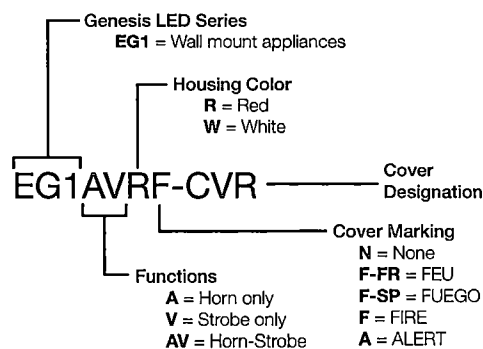
Accessories

	EG1TR	Trim ring, EG1 Series, red		EG1TW	Trim ring, EG1 Series, white
27193-11	One-gang surface mount box, red		27193-16	One-gang surface mount box, white	

Model Number Syntax, Appliances



Model Number Syntax, Replacement Covers





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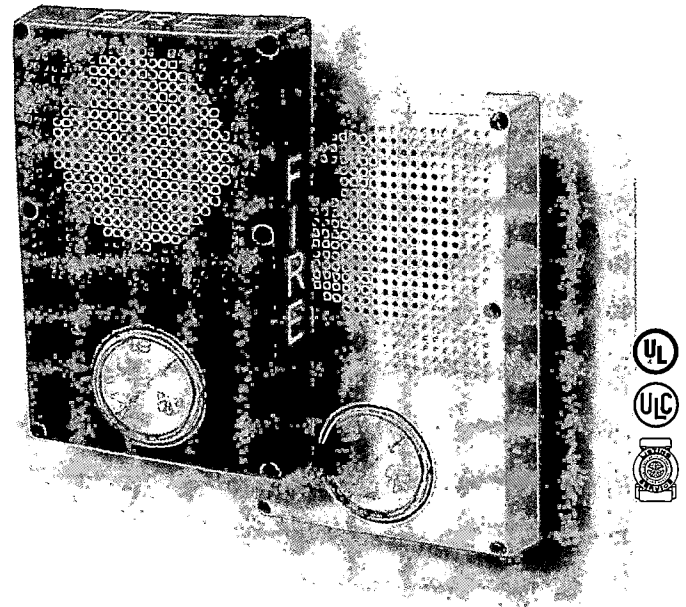
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Outdoor Rated Horns and Horn-Strobes

Genesis WG4 Series



Overview

Genesis WG4 Series horns and horn-strobe appliances are among the most versatile emergency appliances of their kind. Rated for indoor or outdoor use, they are suitable for a wide range of wet and harsh environments with a listed operating temperature range of as low as -40 °F to as high as 151 °F (-40 °C to 66 °C).

Field-configurable light and sound output settings add to their on-site flexibility, while optional FIRE markings make them ideal for fire alarm applications.

These appliances are suitable for indoor and outdoor applications, and are ideal for challenging conditions such as parking garages and process areas. They are available for mounting on the ceiling or the wall, and thanks to an ingenious optional full backplane sealing gasket, can be installed to recessed (in-the-pour/block) electrical boxes. WG4 notification appliances also mount to suitable surface boxes. Optional color-matched trim skirts provide a clean, finished appearance. All appliance wiring is accomplished room-side for easy installation.

WG4 Series appliances feature an efficient and powerful piezo sounder. The multi-candela strobes are available with clear lenses in two output categories – standard and high-output. They are precision-timed to meet UL 1971 synchronization standards, and field-configurable for one of four candela intensities. Candela settings are viewable even after installation through an innovative sealed viewport display.

Standard Features

- Outdoor and indoor rated
- Low-profile design
- Wall or ceiling mount
- Room-side wiring accepts 18 to 12 AWG (0.75 to 2.5 mm²)
- Wide operating temperature range
- Field-selectable settings
- Fully-compatible with Genesis synchronization protocols
- Standard and high-output strobe intensities
- Horn only and horn-strobe options

Application

Horns

Genesis horn output reaches as high as 97 dBA in accordance with UL 464 (104 dBA in accordance with ULC-S525) and features a unique frequency tone that results in excellent sound penetration and an unmistakable warning of danger. Horns may be configured for either coded or non-coded notification circuits. They can also be set for low dB output with a jumper cut that reduces horn output by about 5 dB.

The suggested sound pressure level for each notification zone used with alarm notification appliances is at least 15 dB above the average ambient sound level, or 5 dB above the maximum sound level having a duration of at least 60 seconds, whichever is greater, measured 5 feet (1.5 m) above the floor. The average ambient sound level is A-weighted (fast response) sound pressure measured over a 24-hour period.

Doubling the distance from the notification appliance to the ear will theoretically result in a 6 dB reduction of the received sound pressure level. The actual effect depends on the acoustic properties of materials in the space. A 3 dBA difference represents a barely noticeable change in volume.

Strobe Application

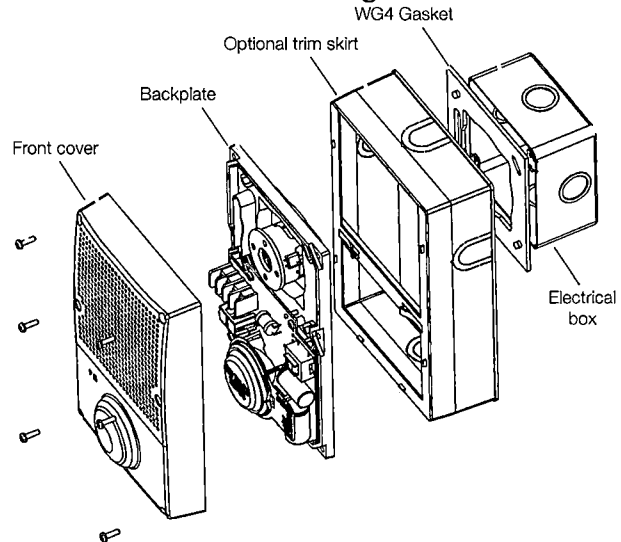
Genesis clear-lensed strobes are UL 1971-listed for use indoors as wall- or ceiling-mounted public-mode notification appliances for the hearing impaired, and UL 1638-listed for outdoor applications. Prevailing codes require strobes to be used where ambient noise conditions exceed specified levels, where occupants use hearing protection, and in areas of public accommodation.

Visible appliance synchronization is required to avoid causing issues with people who have Photosensitive Epilepsy (PSE). Notification appliance synchronization is also generally required when more than two strobe appliances are in the same field of view from any one location. All Genesis strobes meet UL synchronization requirements (within 10 milliseconds over a two-hour period) when used with a synchronization source.

WARNING: These devices will not operate without electrical power. As fires frequently cause power interruptions, we suggest you discuss further safeguards with your local fire protection specialist.

Edwards recommends that these devices always be installed in accordance with the latest recognized edition of national and local codes. Refer to the appropriate codes and standards for mounting height information.

Installation and Mounting

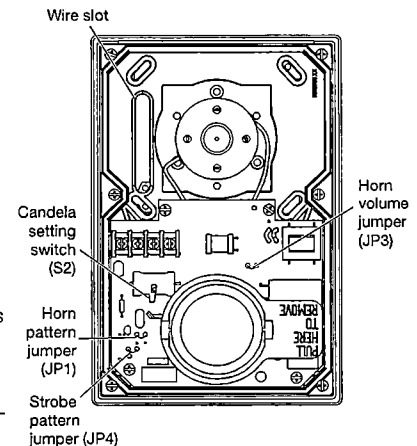


WG4 notification appliances are rated for outdoor use and are suitable for indoor or outdoor applications on walls or ceilings. For surface-mounting in outdoor or wet applications, appliances must be mounted to a 449 electrical box. In dry conditions, they are compatible with standard 4-inch square by 1½-inch deep electrical boxes. When using the optional WG4WTS or WG4RTS trim skirt, a 449 or 4-inch square by 2-1/8" deep box must be used.

The Genesis WG4 horn and horn-strobe may be wall- or ceiling-mounted, and may be placed in one of four positions: strobe above, strobe below, and strobe to either side. The shallow depth of Genesis devices leaves room behind the appliance for extra wiring.

Field Configuration

Horn pattern: Audible output for WG4 horns and horn-strobes is factory set to sound in a three-pulse temporal pattern. Units may be configured for use with coded systems by cutting a JP1 on the circuit board. This results in a steady output that can be turned on and off (coded) as the system applies and removes power to the notification circuit. A Genesis Signal Master is required when horn-strobe models are configured for coded systems.



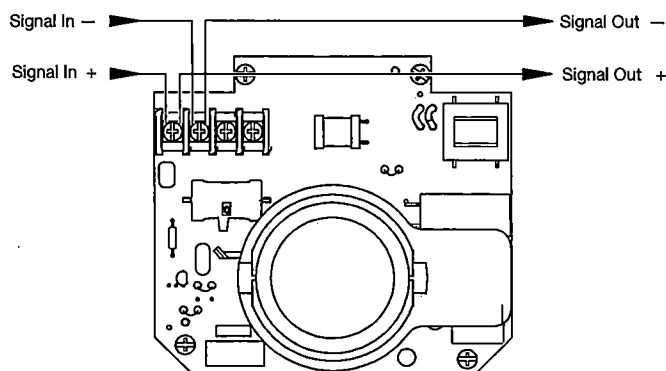
Horn output: Horns and horn-strobes are factory set for high dB output. Low dB output may be selected by cutting a jumper on the circuit board. This reduces the output by about 5 dB.

Strobe pattern: Genesis WG4 horn-strobes are factory set for use as UL 1971 compliant notification appliances for public mode operation. These notification appliances may be configured for temporal flash by cutting JP4 on the circuit board. This battery-saving feature is intended for private mode signaling only.

Strobe output: Genesis WG4 horn-strobes may be set for one of four output intensities. The output setting is changed by simply opening the device and sliding the switch to the desired setting. The device does not have to be removed to change the output setting. The setting remains visible after the cover is closed through a small window on the front of the device.

Wiring

Field wiring is connected to WG4 notification appliances with terminals that accommodate #18 to #12 AWG (0.75 mm² to 2.5 mm²) wiring.



—/+ designations indicate the signal polarity required to activate the device.

Specifications

Horns and Horn-strobes

Operating voltage	24 VDC, 24 VFWR nominal
Dimensions (W x H x D)	5.6 x 8.5 x 1.4 in. (142 x 216 x 36 mm)
Horn tone	3.2 kHz
Wire size	12 to 18 AWG (0.75 to 2.50 mm ²)
Compatible electrical box	
Outdoor	Model 449
Indoor	4 in. square by 1.5 in. deep box
Operating environment	
Temperature	-40 to 151°F (-40 to 66°C)
Relative humidity	0 to 95% noncondensing

Compatible Synchronization Sources

Horn-strobes

Auto-sync Output Module	E-NAC
Genesis Signal Master	EG1M-RM
Booster & Auxiliary Power Supplies	EBPS6A, EBPS10A
Control Panels with Genesis Synchronization built-in	E-FSC, E-FSA Series

Sound Output

Horns and Horn-strobes (dBA)

Volume Setting	16V		24V		33V	
	UL 464	ULC-S525	UL 464	ULC-S525	UL 464	ULC-S525
Continuous High	89.7	94.0	94.7	99.6	97.4	102.9
Continuous Low	85.4	92.8	89.5	97.2	92.5	98.6
Temporal High	84.2	96.5	90.5	100.5	93.5	104.2
Temporal Low	81.7	90.3	85.4	94.2	88.1	97.0

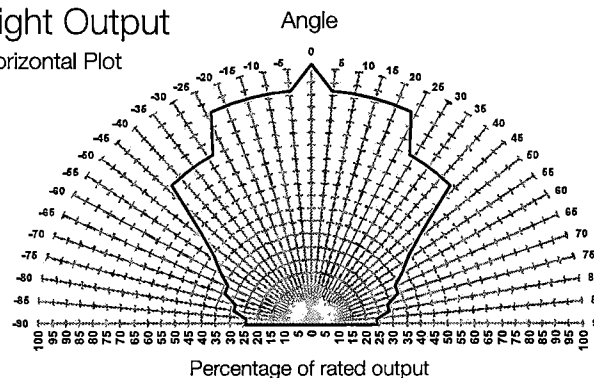
dBA = Decibels, A-weighted.

UL 464: Sound level output measured in a reverberant room at 10 ft. (3.05m).

CAN/ULC-S525: Sound level output measured in an anechoic room at 10ft (3.05m).

Light Output

Horizontal Plot



Standard Candela Horn-strobes

Standard/rating		Strobe Switch Position			
		D	C	B	A
UL 1971	Indoor	15 cd	29 cd	70 cd	87 cd
UL 1638	Outdoor @ -35°C	6 cd	12 cd	28 cd	35 cd
CAN/ULC-S526	Outdoor @ -40°C	1 cd	3 cd	8 cd	10 cd

High Candela Horn-strobes

Standard/rating		Strobe Switch Position			
		D	C	B	A
UL 1971	Indoor	102cd	123cd	147cd	161cd
UL 1638	Outdoor @ -35°C	41cd	50 cd	60 cd	65 cd
CAN/ULC-S526	Outdoor @ -40°C	11 cd	14 cd	17 cd	18 cd

Operating Current

(UL specifies current ratings at 16 volts)

Standard Candela Horn-strobes in RMS (mA), continuous

Input Voltage	Strobe Switch Position			
	D	C	B	A
16 VDC	127	168	297	351
16 VFWR	218	239	393	422
24 VDC	107	130	210	238
24 VFWR	190	222	325	356

High Candela Horn-strobes in RMS (mA), continuous

Input Voltage	Strobe Switch Position			
	D	C	B	A
16 VDC	342	408	517	526
16 VFWR	447	502	614	679
24 VDC	240	271	327	365
24 VFWR	390	400	486	540

Horn only models (mA)

Setting	16V RMS, continuous		24V, typical	
	High dB	Low dB	High dB	Low dB
VDC	69.1	41.2	49.0	32.3
VFWR	135	91.3	99.1	67.1



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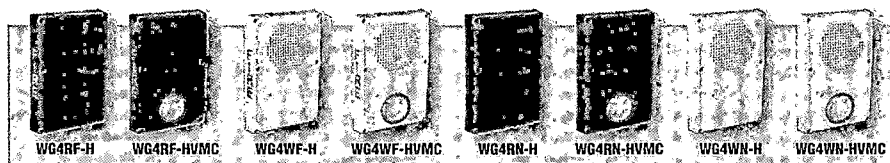
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Ordering Information



Model	Housing	Marking	Strobe Output	Ship Wt.
WG4RF-HVMC	Red	FIRE	Selectable standard candela output	1.5 lbs. (0.68 kg)
WG4WF-HVMC	White			
WG4RN-HVMC	Red	None		
WG4WN-HVMC	White			
WG4RF-HVMHC	Red	FIRE	Selectable high candela output	
WG4WF-HVMHC	White			
WG4RN-HVMHC	Red	None		
WG4WN-HVMHC	White			
WG4RF-H	Red	FIRE	Horn Only	
WG4WF-H	White			
WG4RN-H	Red	None		
WG4WN-H	White			

Accessories

WG4WTS	Surface Skirt for Genesis WG4 appliance family, white.
WG4RTS	Surface Skirt for Genesis WG4 appliance family, red.
WG4GSKT	Full Body Mounting Gasket for smooth surfaces, WG4 appliance family
449	Surface mount box, outdoor rated, gray

Technology that saves lives

Manual Pull Stations

GSA-M270, GSA-M270P,
GSA-M278



Overview

The GSA-M270 and GSA-M278 series Manual Pull Stations are part of Kidde's Signature Series system. The GSA-M270 Fire Alarm Manual Pull Stations feature our very familiar teardrop shape. They are made from die-cast zinc and finished with red epoxy powder-coat paint complemented by aluminum colored stripes and markings. With positive pull-lever operation, one pull on the station handle breaks the glass rod and turns in a positive alarm, ensuring protection plus fool-proof operation. Presignal models (GSA-M270P) are equipped with a general alarm (GA) keyswitch for applications where two stage operation is required. The up-front highly visible glass rod discourages tampering, but is not required for proper operation.

Kidde's double action single stage GSA-M278 station is a contemporary style manual station made from durable red colored lexan. To initiate an alarm, first lift the upper door marked "LIFT THEN PULL HANDLE", then pull the alarm handle.

Standard Features

Note: Some features described here may not be supported by all control systems. Check your control panel's Installation and Operation Guide for details.

- **Traditional familiar appearance**
GSA-M270 models feature our familiar teardrop design with simple positive pull action and sturdy die-cast metal body.
- **One stage (GA), two stage (pre-signal), and double action models**
GSA-M270 models are available for one or two stage alarm systems. The single stage double action GSA-M278 features a rugged Lexan housing with keyed reset mechanism.

- **Break glass operation**
An up-front visible glass rod on the GSA-M270 discourages tampering.
- **Intelligent device with integral microprocessor**
All decisions are made at the station allowing lower communication speed while substantially improving control panel response time. Less sensitive to line noise and loop wiring properties; twisted or shielded wire is not required.
- **ADA Compliant**
Meets ADA requirements for manual pull stations.
- **Electronic Addressing with Non-volatile memory**
Permanently stores programmable address, serial number, type of device, and job number. Automatically updates historic information including hours of operation, last maintenance date, number of alarms and troubles, and time and date of last alarm.
- **Automatic device mapping**
Each station transmits wiring information to the loop controller regarding its location with respect to other devices on the circuit.
- **Stand-alone operation**
The station inputs an alarm even if the loop controller's polling interrogation stops.
- **Diagnostic LEDs**
Status LEDs; flashing GREEN shows normal polling; flashing RED shows alarm state.
- **Designed for high ambient temperature operation**
Install in ambient temperatures up to 120 °F (49 °C).

Application

The operating characteristics of the fire alarm stations are determined by their sub-type code or "Personality Code". NORMALLY-OPEN ALARM - LATCHING (Personality Code 1) is assigned by the factory; no user configuration is required. The device is configured for Class B IDC operation. An ALARM signal is sent to the loop controller when the station's pull lever is operated. The alarm condition is latched at the station.

Compatibility

Signature Series manual stations are compatible only with Kidde's Signature Loop Controller.

Warnings & Cautions

This device will not operate without electrical power. As fires frequently cause power interruption, we suggest you discuss further safeguards with your local fire protection specialist.

Testing & Maintenance

To test (or reset) the station simply open the station and operate the exposed switch. The GSA-M270 series are opened with a tool; the GSA-M278 requires the key which is supplied with that station.

The station's automatic self-diagnosis identifies when it is defective and causes a trouble message. The user-friendly maintenance program shows the current state of each Signature series device and other pertinent messages. Single devices may be deactivated temporarily, from the control panel. Availability of maintenance features is dependent on the fire alarm system used.

Scheduled maintenance (Regular or Selected) for proper system operation should be planned to meet the requirements of the Authority Having Jurisdiction (AHJ). Refer to current NFPA 72 and ULC CAN/ULC 536 standards.

Typical Wiring

The fire alarm station's terminal block accepts #18 AWG (0.75mm²) to #12 AWG (2.5mm²) wire sizes. See Signature Loop Controller catalog sheet for detailed wiring requirement specifications.

Wiring Notes

1. Refer to Signature Loop Controller manual for maximum wire distance.
2. All wiring is power limited and supervised.

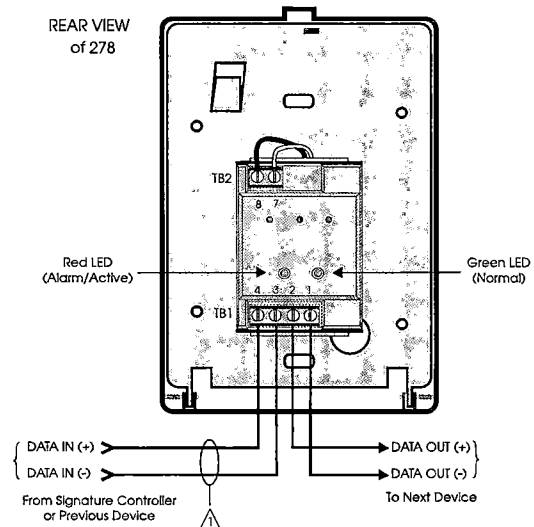


Figure 4. Single Stage Systems

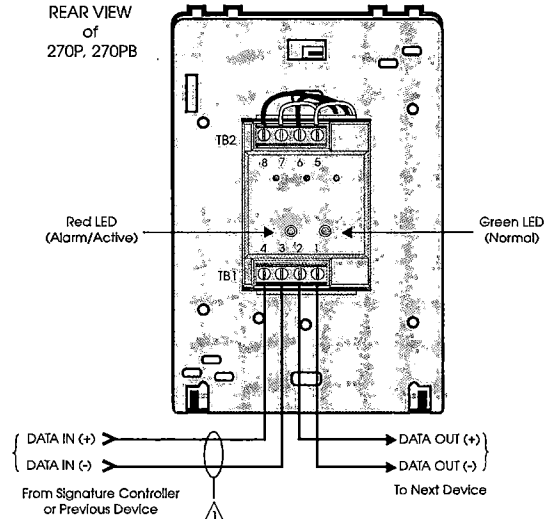


Figure 5. Two Stage Systems

Installation

Single-stage Signature Series fire alarm manual pull stations mount to North American 2½ inch (64 mm) deep 1-gang boxes.

Two stage presignal (270P) models require 1½ inch (38 mm) deep 4-inch square boxes with 1-gang, ½-inch raised covers. Openings must be angular. *Rounded openings are not acceptable.* Recommended box: Steel City Model 52-C-13; in Canada, use Iberville Model CI-52-C-49-1/2.

All models include terminals are suited for #12 to #18 AWG (2.5 mm² to 0.75 mm²) wire size. Kidde recommends that these fire alarm stations be installed according to latest recognized edition of national and local fire alarm codes.

Electronic Addressing: The loop controller electronically addresses each manual station, saving valuable time during system commissioning. Setting complicated switches or dials is not required. Each station has its own unique serial number stored in its on-board memory. The loop controller identifies each device on the loop and assigns a "soft" address to each serial number. If desired, the stations can be addressed using the SIGA-PRO Signature Program/Service Tool.

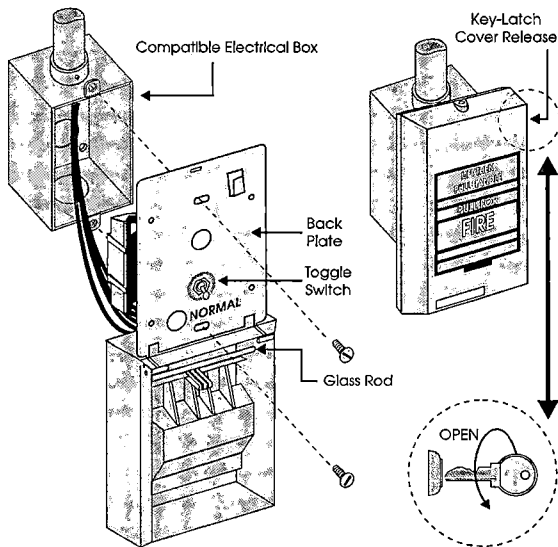


Figure 1. GSA-M278 installation

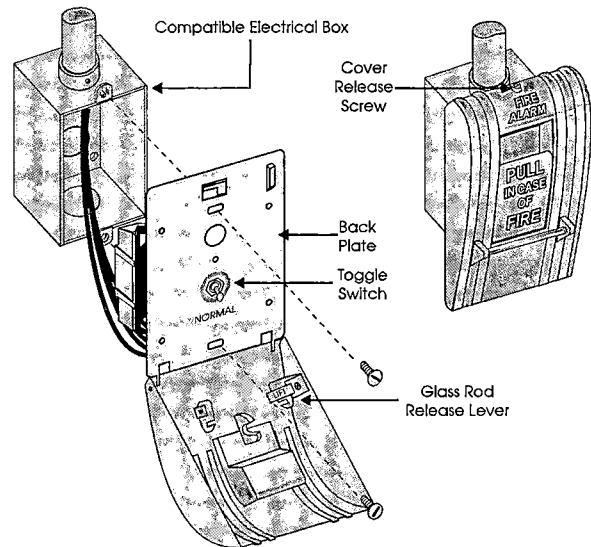


Figure 2. GSA-M270 installation

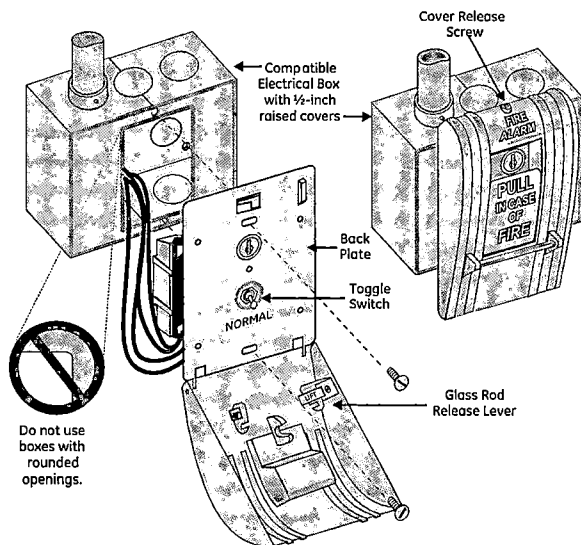


Figure 3. GSA-M270P installation



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Specifications

Catalog Number	GSA-M270	GSA-M270P	GSA-M278
Description	Single Action - One Stage	Single Action - Two Stage (Presignal)	Double Action - One Stage
Addressing Requirements	Uses 1 Module Address	Uses 2 Module Addresses	Uses 1 Module Address
Operating Current	Standby = 250µA Activated = 400µA	Standby = 396µA Activated = 680µA	Standby = 250µA Activated = 400µA
Construction & Finish	Diecast Zinc - Red Epoxy with aluminum markings		Lexan - Red with white markings
Type Code	Factory Set		
Operating Voltage	15.2 to 19.95 Vdc (19 Vdc nominal)		
Storage and Operating Environment	Operating Temperature: 32°F to 120°F (0°C to 49°C) Storage Temperature: -4°F to 140°F (-20°C to 60°C) Humidity: 0 to 93% RH		
LED Operation	On-board Green LED - Flashes when polled On-board Red LED - Flashes when in alarm		
Compatibility	Use With: Signature Loop Controller		
Agency Listings	UL, ULC, MEA, CSFM, FM		

Ordering Information

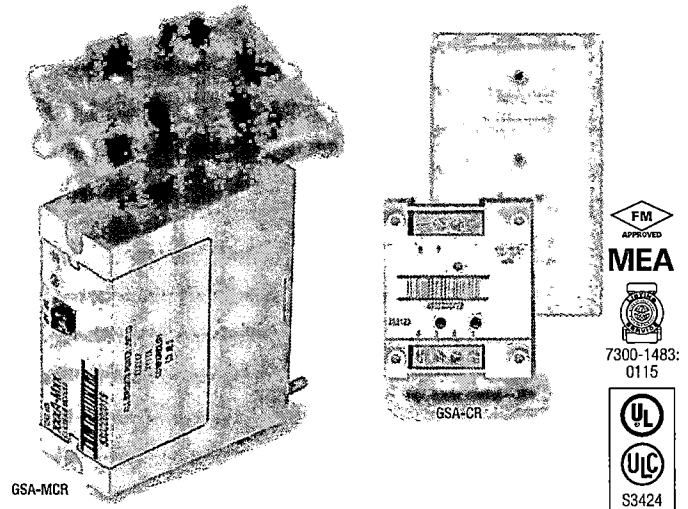
Catalog Number	Description	Ship Wt. lbs (kg)
GSA-M270	One Stage Fire Alarm Station, English Markings - UL/ULC Listed	1 (0.5)
GSA-M270P	Two Stage (Presignal) Fire Alarm Station, English Markings - UL/ULC Listed	
GSA-M278	Double Action (One Stage) Fire Alarm Station, English Markings - UL/ULC Listed	
Accessories		
270-GLR	20 Glass Rods - for GSA-M270 series (USA ONLY)	
276-GLR	20 Glass Rods - for GSA-M278 series	

Technology that saves lives

Control Relay Modules

GSA-CR, GSA-MCR, GSA-CRR, GSA-MCRR

ELECTRONIC
Compatible with VS & VM control systems
ADDRESSING



Overview

The Control Relay Module and the Polarity Reversal Relay Module are part of the Signature Series system. They are intelligent analog addressable devices available in either plug-in (UIO) versions, or standard 1-gang mount versions.

The GSA-CR/MCR Control Relay Module provides a Form "C" dry relay contact to control external appliances such as door closers, fans, dampers etc. This device does not provide supervision of the state of the relay contact. Instead, the on-board microprocessor ensures that the relay is in the proper ON/OFF state. Upon command from the loop controller, the GSA-CR/MCR relay activates the normally open or normally-closed contact.

The GSA-CRR/MCRR Polarity Reversal Relay Module provides a Form "C" dry relay contact to power and activate a series of GSA-AB4G Audible Sounder Bases. Upon command from the Signature loop controller, the GSA-CRR reverses the polarity of its 24 Vdc output, thus activating all Sounder Bases on the data loop.

Standard-mount versions (GSA-CR and GSA-CRR) are installed to standard North American 1-gang electrical boxes, making them ideal for locations where only one module is required. Separate I/O and data loop connections are made to each module.

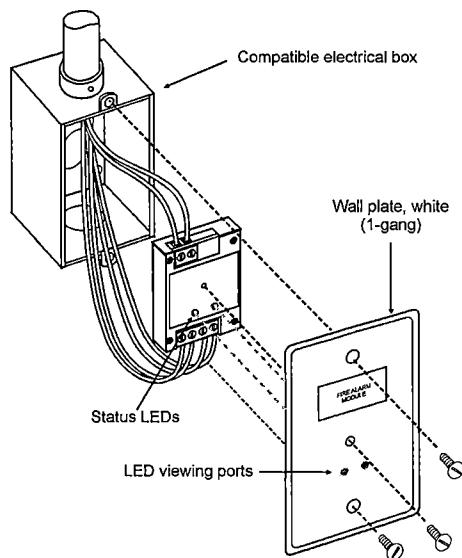
Plug-in UIO versions (GSA-MCR and GSA-MCRR) are part of the UIO family of plug-in Signature Series modules. They function identically to the standard mount versions, but take advantage of the modular flexibility and easy installation that characterizes all UIO modules. Two- and six-module UIO motherboards are available. All wiring connections are made to terminal blocks on the motherboard. UIO assemblies may be mounted in Kidde enclosures.

Standard Features

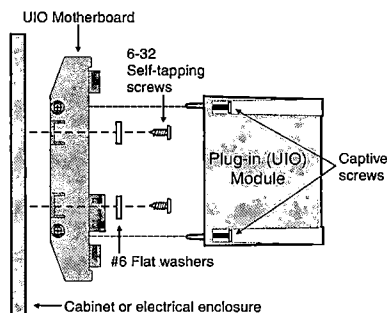
- **Provides one no/nc contact (GSA-CR/MCR)**
Form "C" dry relay contact can be used to control external appliances such as door closers, fans, dampers etc.
- **Allows group operation of sounder bases**
The GSA-CRR/MCRR reverses the polarity of its 24 Vdc output, thus activating all Sounder Bases on the data loop.
- **Plug-in (UIO) or standard 1-gang mount**
UIO versions allow quick installation where multiple modules are required. The 1-gang mount version is ideal for remote locations that require a single module.
- **Automatic device mapping**
Signature modules transmit information to the loop controller regarding their circuit locations with respect to other Signature devices on the wire loop.
- **Electronic addressing**
Programmable addresses are downloaded from the loop controller, a PC, or the SIGA-PRO Signature Program/Service Tool; there are no switches or dials to set.
- **Intelligent device with microprocessor**
All decisions are made at the module to allow lower communication speed with substantially improved control panel response time and less sensitivity to line noise and loop wiring properties; twisted or shielded wire is not required.
- **Ground fault detection by address**
Detects ground faults right down to the device level.

Installation

GSA-CR and GSA-CRR: modules mount to North American 2½ inch (64 mm) deep 1-gang boxes and 1½ inch (38 mm) deep 4 inch square boxes with 1-gang covers and GSA-MP mounting plates. The terminals are suited for #12 to #18 AWG (2.5 mm² to 0.75 mm²) wire size.



GSA-MCR and GSA-MCRR: mount the UIO motherboard inside a suitable Kidde enclosure with screws and washers provided. Plug the module into any available position on the motherboard and secure the module to the motherboard with the captive screws. Wiring connections are made to the terminals on the motherboard (see wiring diagram). UIO motherboard terminals are suited for #12 to #18 AWG (2.5 mm² to 0.75 mm²) wire size.



Electronic Addressing - The loop controller electronically addresses each module, saving valuable time during system commissioning. Setting complicated switches or dials is not required. Each module has its own unique serial number stored in its on-board memory. The loop controller identifies each device on the loop and assigns a "soft" address to each serial number. If desired, the modules can be addressed using the SIGA-PRO Signature Program/Service Tool.

Kidde recommends that this module be installed according to latest recognized edition of national and local fire alarm codes.

Application

The operation of Signature Series control relays is determined by their sub-type code or "Personality Code."

Personality Code 8: CONTROL RELAY (GSA-CR/MCR) - Dry

Contact Output. This setting configures the module to provide one Form "C" DRY RELAY CONTACT to control Door Closers, Fans, Dampers, etc. Contact rating is 2.0 amp @ 24 Vdc; 0.5 amp @ 120 Vac (or 0.25A @ 220 Vac for non-UL applications). Personality Code 8 is assigned at the factory. No user configuration is required.

Personality Code 8: POLARITY REVERSAL RELAY MODULE

(GSA-CRR/MCRR). This setting configures the module to reverse the polarity of its 24 Vdc output. Contact rating is 2.0 amp @ 24 Vdc (pilot duty). Personality Code 8 is assigned at the factory. No user configuration is required.

Compatibility

These modules are part of Kidde's Signature Series intelligent processing and control platform. They are compatible with VM, and VS Series control panels.

Warnings & Cautions

This module will not operate without electrical power. As fires frequently cause power interruption, we suggest you discuss further safeguards with your local fire protection specialist.

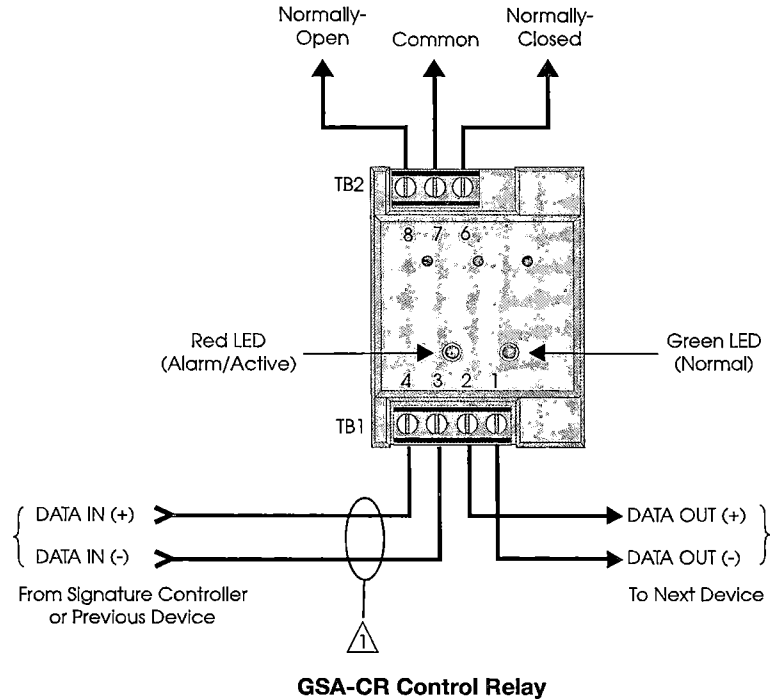
Testing & Maintenance

The module's automatic self-diagnosis identifies when it is defective and causes a trouble message. The user-friendly maintenance program shows the current state of each module and other pertinent messages. Single modules may be turned off (deactivated) temporarily, from the control panel. Availability of maintenance features is dependent on the fire alarm system used. Scheduled maintenance (Regular or Selected) for proper system operation should be planned to meet the requirements of the Authority Having Jurisdiction (AHJ). Refer to current NFPA 72 and ULC CAN/ULC 536 standards.

Typical Wiring

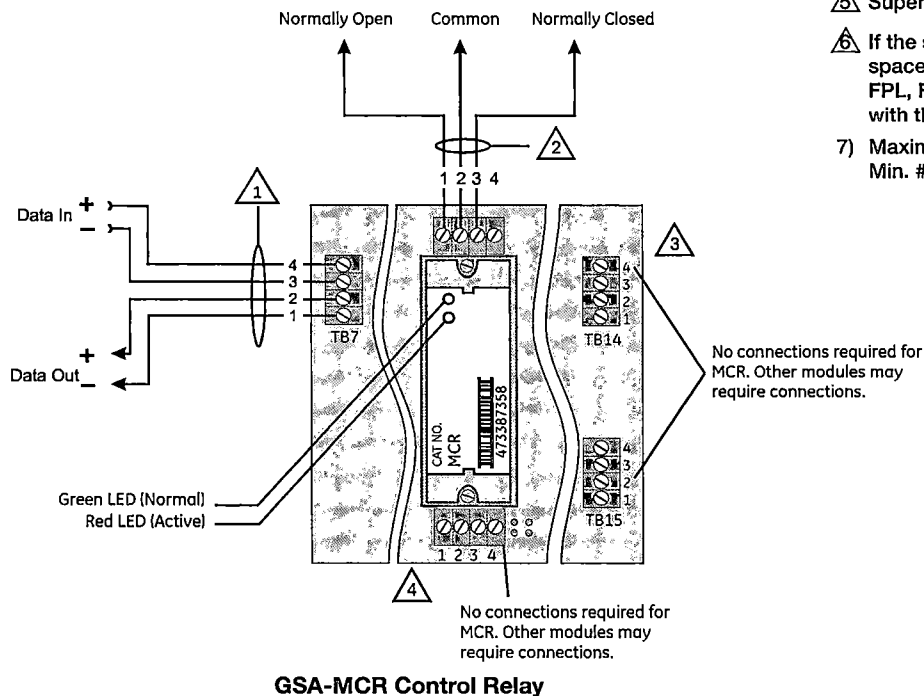
Modules will accept #18 AWG (0.75mm²), #16 (1.0mm²), #14 AWG (1.50mm²) and #12 AWG (2.5mm²) wire sizes.

Note: Sizes #16 AWG (1.0mm²) and #18 AWG (0.75mm²) are preferred for ease of installation. See Signature Loop Controller catalog sheet for detailed wiring requirement specifications.



Notes

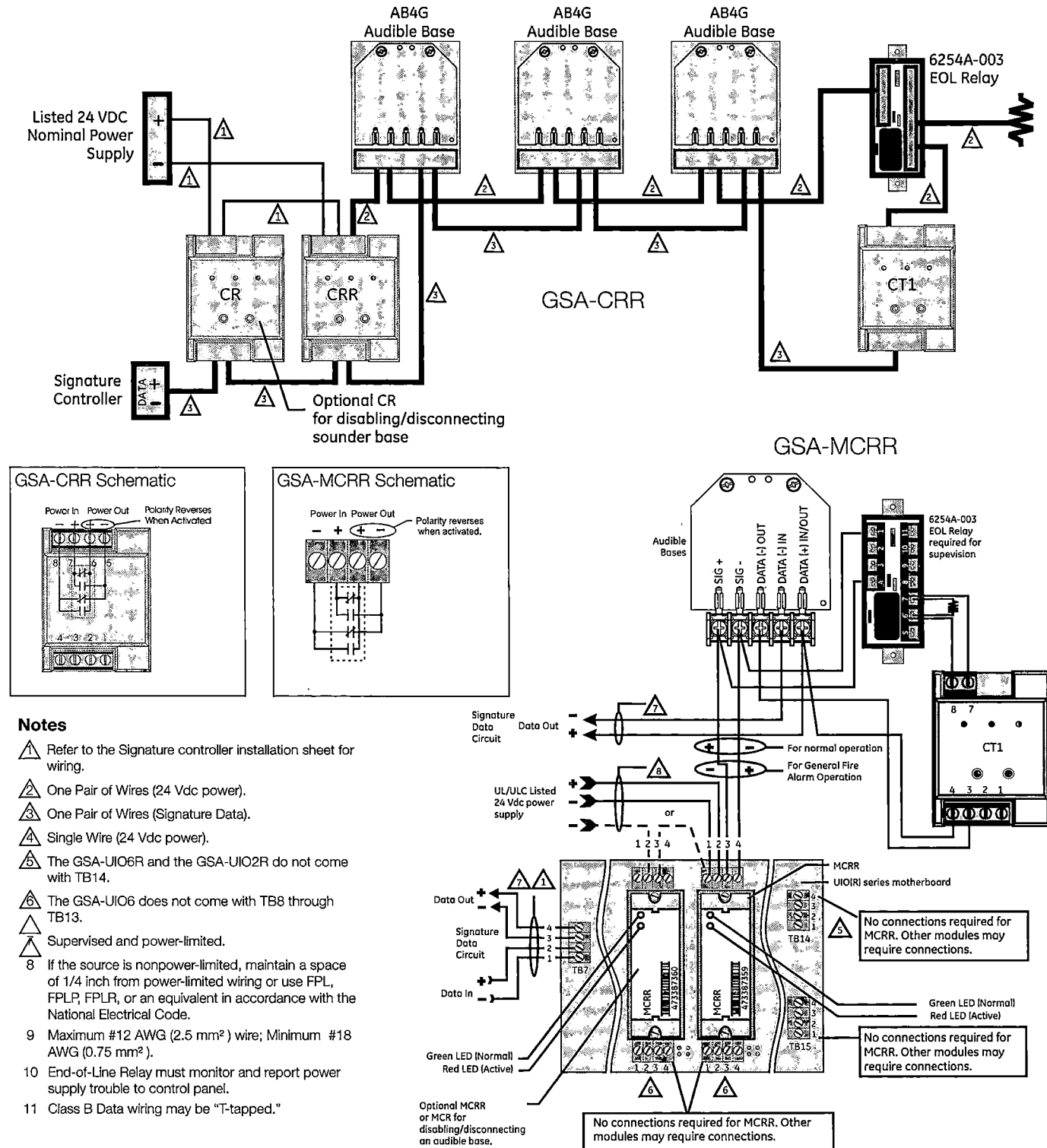
- 1) Refer to Signature Loop Controller Installation Sheet for wiring specifications.
- 2) NFPA 72 requires that the GSA-CR/GSA-MCR be installed in the same room as the device it is controlling. This requirement may not apply in all markets. Check with your local AHJ for details.
- 3) The GSA-UIO6R and the GSA-UIO2R do not come with TB14.
- 4) The GSA-UIO6 does not come with TB8 through TB13.
- 5) Supervised and power-limited.
- 6) If the source is nonpower-limited, maintain a space of 1/4 inch from power-limited wiring or use FPL, FPLP, FPLR, or an equivalent in accordance with the National Electrical Code.
- 7) Maximum #12 AWG (2.5mm²) wire.
Min. #18 (0.75mm²).



Typical Wiring

Modules will accept #18 AWG (0.75mm²), #16 (1.0mm²), #14 AWG (1.50mm²) and #12 AWG (2.50mm²) wire sizes.

Note: Sizes #16 AWG (1.0mm²) and #18 AWG (0.75mm²) are preferred for ease of installation. See Signature Loop Controller catalog sheet for detailed wiring requirement specifications.



Specifications

Catalog Number	GSA-CR	GSA-MCR	GSA-CRR	GSA-MCRR
Description	Control Relay		Polarity Reversal Relay	
Type Code	Personality Code 8 (Factory Set)		Personality Code 8 (Factory Set)	
Address Requirements	Uses 1 Module Address			
Operating Current	Standby = 75 μ A Activated = 75 μ A			
Operating Voltage	15.2 to 19.95 Vdc (19 Vdc nominal)			
Relay Type and Rating	Form C, 2 Amps @ 24 Vdc (pilot duty), 0.5 Amps @ 120 Vac and 0.25 Amps @ 220 Vac (220 Vac is non-UL). Not rated for capacitive loads.			
Mounting	North American 2½ inch (64 mm) deep 1-gang boxes and 1½ inch (38 mm) deep 4 inch square boxes with 1-gang covers and GSA-MP mounting plates	Plugs into UIO2R, UIO6R or UIO6 Motherboards	North American 2½ inch (64 mm) deep 1-gang boxes and 1½ inch (38 mm) deep 4 inch square boxes with 1-gang covers and GSA-MP mounting plates	Plugs into UIO2R, UIO6R or UIO6 Motherboards
Construction & Finish	High Impact Engineering Polymer			
Storage and Operating Environment	Operating Temperature: 32°F to 120°F (0°C to 49°C) Storage Temperature: -4°F to 140°F (-20°C to 60°C) Humidity: 0 to 93% RH			
LED Operation	On-board Green LED - Flashes when polled On-board Red LED - Flashes when in alarm/active			
Compatibility	Use With: Signature Loop Controller			
Agency Listings	UL, ULC, CSFM, MEA			

Ordering Information

Catalog Number	Description	Ship Weight - lbs (kg)
GSA-CR	Control Relay Module (Standard Mount)	0.4 (0.15)
GSA-MCR	Control Relay Module (UIO Mount)	0.18 (0.08)
GSA-CRR	Polarity Reversal Relay Module (Standard Mount)	0.4 (0.15)
GSA-MCRR	Polarity Reversal Relay Module (UIO Mount)	0.18 (0.08)

Related Equipment		
27193-11	Surface Mount Box - Red, 1-gang	1 (0.6)
27193-16	Surface Mount Box - White, 1-gang	1 (0.6)
GSA-UIO2R	Universal Input-Output Module Board w/Riser Inputs - Two Module Positions	0.32 (0.15)
GSA-UIO6R	Universal Input-Output Module Board w/Riser Inputs - Six Module Positions	0.62 (0.28)
GSA-UIO6	Universal Input-Output Module Board - Six Module Positions	0.56 (0.25)
GSA-AB4G	Audible (Sounder) Detector Base	0.3 (0.15)

Accessories		
MFC-A	Multifunction Fire Cabinet - Red, supports Signature Module Mounting Plates	7.0 (3.1)
GSA-MB4	Transponder Mounting Bracket (allows for mounting two 1-gang modules in a 2-gang box)	0.4 (0.15)
GSA-MP1	Signature Module Mounting Plate, 1 footprint	1.5 (0.70)
GSA-MP2	Signature Module Mounting Plate, 1/2 footprint	0.5 (0.23)
GSA-MP2L	Signature Module Mounting Plate, 1/2 extended footprint	1.02 (0.46)



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Signature Series Overview

The Signature Series intelligent analog-addressable system from Kidde is an entire family of multi-sensor detectors and mounting bases, multiple-function input and output modules, network and non-network control panels, and user-friendly maintenance and service tools. Analog information from equipment connected to Signature devices is gathered and converted into digital signals. An onboard microprocessor in each Signature device measures and analyzes the signal and decides whether or not to input an alarm. The microprocessor in each Signature device provides four additional benefits – Self-diagnostics and History Log, Automatic Device Mapping, Stand-alone Operation and Fast, Stable Communication.

Self-diagnostics and History Log – Each Signature Series device constantly runs self-checks to provide important maintenance information. The results of the self-check are automatically updated and permanently stored in its non-volatile memory. This information is accessible for review any time at the control panel, PC, or using the SIGA-PRO Signature Program/Service Tool. The information stored in device memory includes:

- Device serial number, address, and type
- Time and date of last alarm
- Most recent trouble code logged by the detector — 32 possible trouble codes may be used to diagnose faults.

Automatic Device Mapping –The Signature Data Controller (SDC) learns where each device's serial number address is installed relative to other devices on the circuit. The SDC keeps a map of all Signature Series devices connected to it. The Signature Series Data Entry Program also uses the mapping feature. With interactive menus and graphic support, the wired circuits between each device can be examined. Layout or "as-built" drawing information showing branch wiring (T-taps), device types and their address are stored on disk for printing hard copy. This takes the mystery out of the installation. The preparation of as-built drawings is fast and efficient.

Device mapping allows the Signature Data Controller to discover:

- Unexpected additional device addresses
- Missing device addresses
- Changes to the wiring in the circuit.

Most Signature modules use a personality code selected by the installer to determine their actual function. Personality codes are downloaded from the SDC during system configuration and are indicated during device mapping.

Standalone Operation – A decentralized alarm decision by the device is guaranteed. Onboard intelligence permits the device to operate in standalone (degrade) mode. If Signature loop controller CPU communications fail for more than four seconds, all devices on that circuit go into standalone mode. The circuit acts like a conventional alarm receiving circuit. Each Signature device on the circuit continues to collect and analyze information from its slave devices. When connected to a panel utilizing standalone operation, modules with their "personality" set as alarm devices (IDC) will alarm should their slave alarm-initiating device activate.

System Power Requirements

Fire Alarm Control Panel

Protected Premises:	Sephora Store 1720 Suite # 4		Date:	07.27.21
Address:	660 NJ-70 West			
City:	Brick Township	State:	NJ	Zip:
Prepared By:	General Security		Phone:	
Address:			Email:	
City:		State:	NY	Zip:

Secondary Load Requirements

10.43 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load 0.357 A	x	Required Standby Time 24 hours	8.56
Secondary Alarm Load 1.572 A	x	Required Alarm Time (hours) 0.084 hours	0.13
Total Secondary Load			8.69
Derating factor			x 1.20
Secondary Load Requirements			10.43 AH

Battery Selection

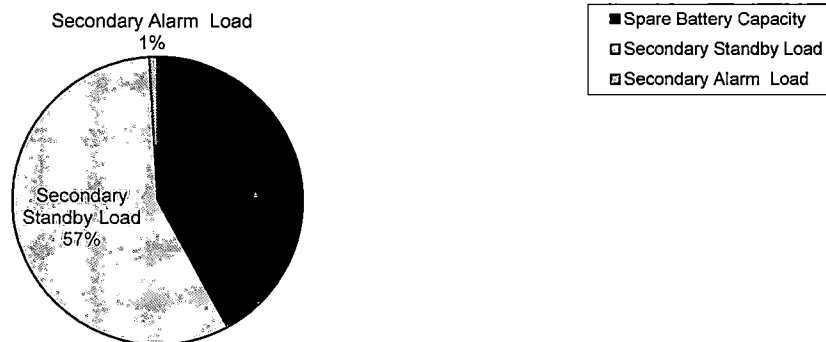
18.00 Amp Hours

Select batteries from the list

18 AH Battery (12 volt)

Battery Distribution Chart

Shows amp-hour distribution of your selections.



Spare Battery Capacity	7.57 Amp Hours
Secondary Standby Load	10.27 Amp Hours
Secondary Alarm Load	0.16 Amp Hours

Fire Alarm Control Panel

				Total Standby		0.357 A		Total Alarm		1.572 A	
				Standby Current				Alarm Current			
Device	Qty			Draw	Standby	Qty			Draw	Alarm	
1. System Device											
Main Board	1	x		0.17200	0.17200	1	x		0.26700	0.26700	
Intel Loop Interface Supplement Board	0	x		0.08100		0	x		0.15000		
	0	x		0.06500		0	x		0.08500		
	0	x		0.08500		0	x		0.10500		
2. E3 Optional Modules											
LCD Display & Switch Control	0	x		0.02400		0	x		0.02800		
ARCNET Repeater	0	x		0.01300		0	x		0.01300		
Digital Communicator	0	x		0.01800		0	x		0.01800		
Optional Remote Serial Annunicator	0	x		0.05000		0	x		0.07500		
Remote Annunciator	1	x		0.03600	0.03600	1	x		0.14600	0.14600	
Auxiliary Switch Sub-Assembly	0	x		0.01100		0	x		0.01100		
Remote LED Driver Module	0	x		0.01100		0	x		0.01100		
	0	x		0.02000		0	x		0.02000		
	0	x		0.03500		0	x		0.20000		
	0	x		0.00100		0	x		0.00100		
	0	x		0.00100		0	x		0.00100		
	0	x		0.15000		0	x		0.15000		
	0	x		0.01100		0	x		0.01100		
	0	x		0.00100		0	x		0.00100		
	0	x		0.02000		0	x		0.02000		
	0	x		0.00200		0	x		0.00650		
	0	x		0.15000		0	x		0.15000		
	1	x		0.05000	0.05000	1	x		0.05000	0.05000	
	0	x		0.08600		0	x		2.20600		
	0	x		0.00200		0	x		0.00650		
	0	x		0.00200		0	x		0.00650		
	0	x		0.00200		0	x		0.00650		
	0	x		0.15000		0	x		0.15000		
	0	x		0.01100		0	x		0.01100		
	0	x		0.00100		0	x		0.00100		
	0	x		0.02000		0	x		0.02000		
	0	x		0.00200		0	x		0.00650		
	0	x		0.00200		0	x		0.00650		
	0	x		0.00200		0	x		0.00650		
7. Detectors/Modules											
KI-OSD	1	x		0.00320	0.00320	1	x		0.00450	0.00450	
CO1224TR	2	x		0.02000	0.04000	2	x		0.04000	0.08000	
GSA-SD	2	x		0.00450	0.00900	2	x		0.00450	0.00900	
GSA-M270	2	x		0.00450	0.00900	2	x		0.00450	0.00900	
RTS151KEY	2	x		0.00045	0.00090	2	x		0.00180	0.00360	
GSA-CR	3	x		0.00250	0.00750	3	x		0.00400	0.01200	
	0	x		0.00100		0	x		0.00100		
GSA-CT1	2	x		0.00250	0.00500	2	x		0.00400	0.00800	
SLE-LTEVI-DFB	1	x		0.02400	0.02400	1	x		0.50000	0.50000	
	0	x		0.00000		0	x		0.00000		
8. Notification Appliances											
WG4RF-HVMC	1	x		0.00000	0.00000	1	x		0.21000	0.21000	
EG1AVWF	5	x		0.00000	0.00000	5	x		0.04500	0.22500	
EG1VWF	2	x		0.00000	0.00000	2	x		0.02400	0.04800	
	0	x		0.00000		0	x		0.06000		
	0	x		0.00000		0	x		0.06000		
	0	x		0.00000		0	x		0.06000		
	0	x		0.00000		0	x		0.06000		
	0	x		0.00000		0	x		0.06000		
	0	x		0.00000		0	x		0.06000		
	0	x		0.00000		0	x		0.06000		
				Total Standby Load:		0.357 A		Total Alarm Load:		1.572 A	