



**Fire Suppression Services Incorporated**  
3802 South 2300 East, Millcreek, UT 84109.  
Ph (801) 277-6464 Fax (801) 278-2199 Toll Free (800)

**Bid Proposal**  
**Division-28**  
**TurnKey**

**FSS-28TK**

To: **Consolidated Fire**  
**Bid Proposal**

For: Fire Suppression Alarm Systems Division 28 Electronic Safety and Security

Bid Number: 2.00  
Date: 2019-03-20  
Expires: 2019-05-04 45 days

Project: **Big Lots #4485**

Total Bid Price: **\$10,900.00** (estimated)

Bidder: Zach Hagblom (801) 277-6464 for **Fire Suppression Services Incorporated**

This Proposal supersedes, cancels and withdraws all previous submissions

**References:**

- NFPA 13: Installation of Sprinkler Systems.
- NFPA 72: National Fire Alarm Code.
- NFPA 170: Standard for Fire Safety and Emergency Symbols.
- Incorporated into this document are other NFPA Codes as referenced and where applicable.
- Ref: [http://www.nfpa.org/aboutthecodes/list\\_of\\_codes\\_and\\_standards.asp](http://www.nfpa.org/aboutthecodes/list_of_codes_and_standards.asp)
- EN 12845: Fixed firefighting systems, Automatic sprinkler systems, Design, installation and maintenance where applicable.
- International Fire & Building Code/s and Life Safety Code.

We use the above codes as a reference ONLY. All and every facets of each of the above may not apply to this proposed pricing document.

**Summary**

This proposal is to install an automatic fire alarm system for Consolidated Fire Protection, at the **Big Lots Store #4485 90<sup>th</sup> South & 40<sup>th</sup> West, West Jordan, UT 84088**, all levels, in accordance with the above referenced standards where applicable, and in accordance with approved Drawings, Calculations and Permits, and all addendums as released as of 2019-02-28

**Inclusions**

1. The use of our Licensed Design Team to calculate and design the complete system as per standards referenced above. (Design)
2. The submission of said design for approval to AHJ, (Submittals) and
3. Obtain Permits from the local Authority Having Jurisdiction over the Project to begin work. (Permit)
4. Install complete fire alarm system as per mutually approved plans.
5. The supply & installation of:
  - 5.1. All Parts & materials for the Fire Alarm System and Panel including:
    - 5.1.1. SK6700 Fire Panel (1) (Silent Knight)



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- 5.1.2. One SK68## LCD Annunciator for mounting by address side entrance.
- 5.1.3. Fire-wiring, (wire to the devices from panel)
- 5.1.4. One horn/strobe alarm combinations
- 5.1.5. One Smoke detectors Addressable, (1)
- 5.1.6. One Pull stations near exit, (1)
- 5.1.7. Fire alarm modules, including wiring to and tie in of water flow switch and tamper switch/s.
- 5.1.8. One Telguard TG-7 Cellular Dialer.
- 5.2. Programming of Fire Alarm Panel (1)
- 6. Proofing:
  - 6.1. Inspecting the System,
  - 6.2. Test the System which includes
    - 6.2.1. Final fire inspection with AHJ (1)
    - 6.2.2. Supply final fire inspection report to FSS PM & General/Owner (1)
    - 6.2.3. Supply Certificate of Completion report to FSS PM & General/Owner and AHJ
- 7. Wiring work pertaining to the Suppression System for
  - 7.1. Alarm and trip devices.
  - 7.2. Low Voltage Electrical work to connect ...:
    - 7.2.1. alarms,
    - 7.2.2. strobes,
    - 7.2.3. bells,
    - 7.2.4. flow & tamper devices
  - .. back to building fire alarm panels.
  - 7.3. Prepare dialer for offsite monitoring. Your CMS to program.
  - 7.4. Cat-6 phone lines will be run from De-Marc to fire panel and terminated at panel.
- 8. We will power down and disconnect the power and batteries from the existing deprecated burglar panel.
  - 8.1. You will need to advise the monitoring service.
  - 8.2. We will remove the burg. Panel connectivity to the existing fire riser and reconnect the riser modules to the new Silent Knight panel.

## **Exclusions**

HV supply and wiring back to a dedicated breaker at the electrical panel (125 vac)  
Any additional or faulty parts for the riser flow monitoring.

## **Additional Charges**

- Any extra programming of the SK-6700 or TG-7 dialer.
- i.e. if additional devices are added via Change Order or AHJ.

## **Notes to Owner/Architect**

### **Communications:**

Owner or General is to supply one only Point-of-Contact email address for document delivery. FSS will send emails to that address only. It will be your responsibility to manage your internal distribution. Fire Suppression Services Inc. reserves the right to communicate, at any & all times, with the Owner of the property.



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Neither the Contractor nor the Owner is permitted to give instructions or orders directly to this subcontractor's employees or the subcontractors sub-contractors or material suppliers unless such persons are designated as authorised representatives of Fire Suppression Services Inc.

**Other notes:**

**Owner will be required to move the pallet/s that are blocking access of our scissor-lift to ceiling east-side warehouse.**

Owner/Architect/Engineer of Record to supply all CAD base drawings for Arch. Civil, Site (Utilities) & MEP DWG files are to include Floor Plans, Reflected Ceiling Plans, Building Sections, Structural Plans, Mechanical (HVAC) Plans and Civil (Utility) Plans.

The Contractor shall permit this subcontractor (Fire Suppression Services inc.) to request directly from the Architect information regarding percentages of completion and the amount certified on account of Work done by this subcontractor.

Design will be based on design parameters provided by Fire Suppression Services and Architect or Engineer. The Contractor shall promptly make available to this subcontractor information, including information from the Owner, that affects this subcontract and that becomes available to the Contractor subsequent to execution of our Contract.

**It is Owner's responsibility to supply 120 VAC 15-20 Amp, dedicated circuit with 'dedicated ground' wiring and connectivity to building fire alarm panels and Cellular Dialer, Compressors and pumps back to electrical breakers. Put it in the scope of work of the Division 26 Electrical. Fire Suppression Services Inc. technicians are not High Voltage AC electricians. Breakers must be clearly labeled Fire Alarm.**

Owner is to supply, at Owners expense, Quality 110-125 AC site power to FSS site work space, in accordance with local Code in readiness for site fitters/technicians at FSS Mobilization, through to our Demobilizations. (For AWP charging and Rigid™ Thread cutters etc.)

Owner will be required to have off-site alarm monitoring by a remote service, of all alarms. (By Code, it must be in place at Final Test). **Fire Suppression Services Inc.** will install on wall and connect the TelGuard Cellular dialer to FACP. **Owner to advise on setup requirements in order to signal Owners CMS.**

**Owner is to advise FSS of which communication provider is required by Owner's CMS. (AT&T or Verizon), prior to us purchasing of the TelGuard TG7; and supply FSS Techs with all appropriate contact personnel in order to complete the remote-service setup.**

Owner may add additional exit pull-stations for an additional fee.

**Addenda**

**These addenda are our TERMS & CONDITIONS and are incorporated into the Proposal in its entirety.**



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## Bid Proposal Division-28 TurnKey

FSS-28TK

### BILLING & PAYMENT

All our Requests for Payment (billing) will be submitted per AIA docs "G702 Application for Progress Payment" using the AIA G703 "Continuation Sheet" "Schedule of Values". The Progress Payment you make is part of an Invoice that represents the full amount of the Contract. We use ONE Master Invoice number for the project. Your payments are progress payments against this invoice.

IF we issue YOU this Invoice, then: ALL invoice amounts (the full Contract Amount), on this invoice are Net 15, no exception. FSS will register the job with the Utah State Construction Service and will at all times preserve its lien rights. Property Owner will be notified and a lien placed on the property if amounts due are unpaid after 30 days from the application for payment date.

### BOND (ADDITIONAL CHARGE)

If requested, **Fire Suppression Services Inc.** shall furnish Bonds in the form requested by you, the 'Owner', covering the faithful performance of the Agreement, and the payment of all obligations arising there under. These may be in the form of 100% Performance, 100% Labor and Material Payment, and Lien Bonds.

The FULL cost of providing such Bond/s for you, the Owner and/or his Agent/Contractor shall be paid by you, the Owner/Agent/Contractor or whosoever may require **Fire Suppression Services Inc.** to furnish said Bond/s, and is an additional cost/amount, and IS NOT included in this bid.

Any and all payments required by **Fire Suppression Services Inc.** for the above shall be shown on any Breakout Sheet (e.g.: AIA-G703) as a SEPARATE item list and shall NOT be subject to any "retainage".

This Subcontractor shall be reimbursed, without any retainage, for the cost of any required performance or payment bonds simultaneously with the FIRST progress payment.

### CHANGES, CCO & PCO

All fire sprinkler nozzles and/or pipe-work AND All Hood Systems and their Suppression devices

AND: All Chemical Suppression Systems AND Portable Extinguishers AND: All Alarm Systems, will be installed as per approved Plans; Any change or deviations from said Plans will not be done without approved Change Order/s with attendant cost adjustments.

### CONTRACT

Seller objects to modifications and additions to any of the terms of this document, irrespective of the wording of the Purchasers acceptance, or other Purchaser Forms, Purchasers Contract, other Documents or hand written annotations on this Document. This document in its entirety is to be incorporated into 'The Contract' with you.

### FREIGHT

All goods that attract freight are FOB Origin FC.

### LABOR

Labor is calculated at a regular day rate and will be performed during business hours. (08:00-16:30) or (07:00-15:30) Hours outside these, or weekends are additional charge to you at time and one half, without exception & must be approved via CO, before worked.

### MOBILIZATION-DEMObILIZATION-REMOBILIZATION

If Fire Suppression Services Inc. or its subcontractors have to suspend work, for any reason, and have to demobilize before completion, then we are entitled to recover our demobilization costs from you; and, if **Fire Suppression Services Inc.** and/or its subcontractors have to remobilize we are entitled to recover the remobilization costs from you.

### PERMIT, DESIGNS and SUBMITTALS

Any and all payments required by **Fire Suppression Service Inc.** for Permit, Designs & Submittals shall be shown on any Breakout Sheet (e.g.: AIA-G703) as a SEPARATE item list and shall NOT be subject to any "retainage".

### Prices & Taxes

If Seller is required to pay any taxes or other fees relating to the services to be performed or to the production, sale or transportation of goods, Purchaser will reimburse the Seller for any such taxes or fees. Portable Fire Extinguishers attract Utah Sales Tax.

**You agree to pay all outstanding Statement amounts, and all interest, attorney's fees and collection costs.**

### Right of Way

Fire Suppression Services requires first right of way; this means that Fire Suppression Sprinkler Technician/Fitters "must be First & High".

### Tamper

Tampering or Adjusting or Working on Fire Suppression installed and tagged Systems by anyone other than Fire Suppressions Authorized personnel or Certified /Authorized / Licensed Fire Protection Service Personnel not only jeopardizes the safe and correct operation of the equipment; it voids the tags on said System, voids all **FSS** Warranties, and it is highly likely it will affect your Insurance.

Unless your maintenance department personnel are so authorized, it is advisable to leave the System equipment maintenance and servicing to Certified Personnel.

### Asbestos Notice:

**FIRE SUPPRESSION SERVICES Inc. IS NEITHER FORMALLY LICENSED IN THE REMOVAL OF, NOR THE ANALYSIS OF ASBESTOS. OUR COMPANY WILL THEREFORE NOT NORMALLY DEAL WITH ALL ASBESTOS RELATED INCIDENTS IN A PRACTICAL SENSE ON BEHALF OF OUR CLIENTS. WHEN THE PRESENCE OF ASBESTOS IS SUSPECTED WE WILL STOP WORK AND APPOINT COMPETENT AND ACCREDITED SUB CONTRACTORS ON A SITE-SPECIFIC BASIS TO CARRY OUT ANY REMOVALS OR TEST**

2016-08-19



# 6700

## Addressable Fire Alarm Control Panel

The 6700 is an addressable fire alarm control panel (FACP) that can be configured to achieve an overall point capacity of up to 100 points. It has one built-in signaling line circuit (SLC), which can support 50 System Sensor® (SK) sensors and 50 SK modules or 50 Hochiki® (SD) devices per loop.

A common communications and annunciation link allows up to 17 panels to be connected via copper or fiber optic cable. A designated panel is configured as the communicator for all panels in the link for convenient single-point communications. It also has a built-in, dual-line POTs and IP communicator and optional cellular side-cars.

The 6700 system can be enhanced by adding modules such as the 6860 remote annunciator which also has four programmable function buttons to help automate tasks and reduce time spent at the panel.

SWIFT® wireless compatibility provides options for wireless detection through a Class A mesh network. It is ideal for hard-to-wire locations, buildings where new wiring is not allowed, or to provide an easy install fire system for new construction projects. SWIFT devices can be combined with other hard-wired 6700 compatible devices. SWIFT is only compatible with System Sensor (SK) devices. It is not compatible with Hochiki (SD) devices.

The 6700 also has Form C trouble relay, and two programmable Form C relays, along with powerful features such as drift compensation, pre-trouble maintenance alert, a built-in sensor test to comply with NFPA 72 calibration testing requirements, and calibration trouble alert.



**6700**

It supports a variety of devices, including the 6860, 5860, and 6855 remote annunciators, 5824 serial parallel printer interface module (for printing system reports), the 5496 NAC expander, 5895XL power module, and SK or SD devices.

## FEATURES & BENEFITS

- Capable of providing up to 100 points to satisfy smaller installation needs
- Connect up to 17 panels on one site with convenient single-point access using the SK-NIC Network Interface Card. Connected panels can have mixed compatible FACP models.
- Convenient field-upgradeable firmware
- Integrated dual path IP and POTs communications and optional cellular side-cars for reliable backup
- 6860 annunciator with a 4 x 40 large display, and 4 programmable function buttons. Free-up time spent at the panel. Program them for simple or complex tasks.
- Built-in USB interface for convenient and quick programming
- Programmable date setting for automatic and convenient Daylight Saving Time changes
- Built-in dual phone line and digital alarm communicator/transmitter (DACT) for additional communication options
- 125 software zones and 125 output groups for flexible design options

# 6700 Product Information

## SIGNAL LINE CIRCUIT (SLC)

The 6700 SLC loops support multiple device types, maintenance alerts, and a built-in sensor test to comply with NFPA 72 calibration testing requirements.

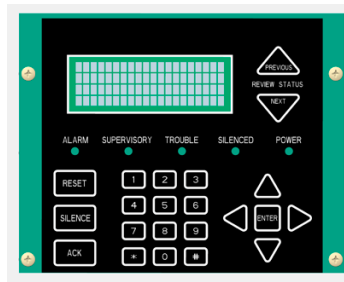
## INDICATOR LIGHTS

- **General Alarm (Red):** Flashes if in alarm; solid when alarm is silenced
- **Supervisory (Yellow):** Flashes if a supervisory condition exists; solid when supervisory is silenced
- **System Trouble (Yellow):** Flashes if a trouble condition exists; solid when trouble is silenced
- **System Silenced (Yellow):** On when an alarm, trouble or supervisory condition has been silenced but not yet cleared
- **System Power (Green):** Flashes for AC failure; solid when power systems are normal

## USER INTERFACE

The 6700 built-in 4 x 20 annunciator with 80 character LCD display and large easy-to-use tactile touchpad can be used for system operation, programming and maintenance. It has five LEDs for alarm, supervisory, system trouble, system silenced and system power.

System operations include silencing alarms and troubles, resetting alarms and the display of alarm troubles and memory. The system's non-volatile event history buffer stores 1,000 events for viewing from the built-in or remote annunciator. System operations can be initiated with a mechanical firefighter's key or a valid 4- to 7-digit operator's code.



6700 KEYPAD

## PROGRAMMING

The 6700 system offers several options to simplify and speed-up programming. JumpStart® autoprogramming minimizes programming required to start a new system. The built-in keypad, or the 6860, 5860 or 6855 remote annunciators give you on-site access to current system programming. You can also program the system using the Honeywell Fire Software Suite (HFSS), which is Windows® based.

## SOFTWARE TOOLS

**SKST:** Silent Knight Selection Tool provides the installer or design architect with a Windows® software system configuration tool to create a detailed Bill of Material (BOM) and battery calculations.

**HFSS:** Honeywell Fire Software Suite provides communication and panel programming, detector status, event history and additional data. Requires a Windows-based computer.

## ADDITIONAL INFORMATION

Twisted-unshielded pair wire is recommended. The 6700 also has 13 preset notification cadence patterns (including ANSI 3.41).

## AGENCY LISTINGS AND APPROVALS

**NFPA 13, NFPA 15, NFPA 16, NFPA 70, NFPA 72:** Central station; remote Signaling; Local Protective Signaling Systems; Auxiliary Protected Premises Unit; Water Deluge releasing service. Suitable for automatic, manual, waterflow, sprinkler supervisory (DACT

non-coded) signaling services.

- **UL Listed:** S2766
- **CSFM** 7165-0559:050
- **FDNY COA#** 6250
- **Seismic (CA)** (pending)

## ORDERING INFORMATION

6700: Addressable Fire Alarm Control Panel. (Red cabinet)

## COMPATIBLE ANNUNCIATORS

**6860:** 4x40 LCD remote fire annunciator (4 lines and up to 160 characters) per system; four programmable buttons

**5860:** 4x20 LCD remote fire annunciator. 5860 is gray; 5860R is red

**6855:** 4x20 LCD remote fire annunciator

**5865-3 or 5865-4:** LED annunciators can display up to 30 LEDs (15 red and 15 yellow). The 5865-4 has key switches for silence and reset, and a system trouble LED.

**5880:** The 5880 LED / IO module has 40 programmable LED outputs and eight supervised dry contact inputs which are useful for custom applications. You can use up to eight 5880 modules on one control panel for maximum flexibility. Its compact size allows mounting inside the annunciator, or in an accessory cabinet.



## 6700 COMPATIBLE DEVICES AND ACCESSORIES

See the data sheets listed below for a complete listing of the SK, SD or SWIFT devices.

53623: SK Devices Data Sheet

53624: SD Devices Data Sheet

350614, 350616 & 350618: SWIFT wireless devices

For a complete and current listing of compatible devices and accessories go to [www.silentknight.com](http://www.silentknight.com)

**Important:** You cannot mix SK and SD devices in the same fire alarm system.

## SK COMPATIBLE ADDRESSABLE DEVICES

**SK-ACCLIMATE:** Multi criteria photoelectric smoke detector with thermal 135°F fixed temperature

**SK-BEAM:** Reflected beam smoke detector without test feature

**SK-BEAM-T:** Reflected beam smoke detector with test feature

**SK-CONTROL:** Supervised control module

**SK-CONTROL-6:** Six circuit supervised control module

**SK-DUCT:** Photoelectric duct smoke detector with extended air speed range

**SK-FIRE-CO:** Four criteria fire and carbon monoxide detector

**SK-HEAT:** Fixed thermal detector (135°F)

**SK-HEAT-ROR:** Fixed rate of rise detector (135°F)

**SK-HEAT-HT:** Fixed high temperature thermal detector (190°F)

**SK-ISO:** Fault isolator module

**SK-MINIMON:** Mini monitor module

**SK-MONITOR:** Monitor module

**SK-MONITOR-2:** Dual input monitor module

**SK-MON-10:** 10 input monitor module

**SK-PHOTO:** Photoelectric smoke detector

**SK-PHOTO-T:** Photoelectric smoke detector with thermal (135°F fixed temperature)

**SK-PHOTOR:** Photoelectric detector with remote test capability

**SK-PULL-SA:** Addressable single action pull station

**SK-PULL-DA:** Addressable dual action pull station

**SK-RELAY:** Addressable relay module

**SK-RELAY-6:** Addressable Six relay control module

**SK-RELAYMON-2:** Addressable Dual relay/monitor module

**SK-ZONE:** Addressable zone interface module

**SK-ZONE-6:** Six zone interface module

**B210LP:** 6" mounting base

**B501:** 4" Flangeless mounting base

**B200S:** Intelligent sounder base

**B200S-LF:** Low-frequency intelligent sounder base

**B224RB:** Relay base

**B224BI:** Isolator base

## SD COMPATIBLE ADDRESSABLE DEVICES

**SD505-6AB:** Addressable 6" base

**SD505-6IB:** Addressable 6" short circuit isolator base

**SD505-6RB:** Addressable 6" relay base

**SD505-6SB:** Addressable 6" sounder base

**SD500-AIM:** Addressable input module (switch input)

**SD500-ANM:** Addressable notification module

**SD500-ARM:** Addressable relay module

**SD505-DTS-K:** Remote test switch and LED indicator for the SD505-DUCTR

**SD505-DUCT:** Addressable Duct Smoke Detector.

**SD505-DUCTR:** Addressable Duct Detector housing with relay base.

**SD505-HEAT:** Absolute temperature heat detector. Trip point range from 135°F–150°F (0°C–37°C).

**SD500-LIM:** Addressable Line isolator module

**SD500-MIM:** Addressable Mini input monitor module (switch input)

**SD505-PHOTO:** Photoelectric smoke detector

**SD500-PS/-PSDA:** Addressable Single or dual action pull station

**SD500-SDM:** Addressable smoke detector module

## AUDIBLE/VISIBLE DEVICES

These AV devices are all 2-wire. Color: "R" indicates red; "W" denotes white. For a complete listing of Silent Knight AV devices go to [www.silentknight.com](http://www.silentknight.com).

**CHSRL/CHSWL:** Wall chime/strobe

**CHSRL/CHSCWL:** Ceiling chime/strobe

**CHRL/CHWL:** Wall chime

**HRL/HWL:** Wall horn

**P2RL/P2WL:** Wall horn/strobe

**PC2RL/PC2WL:** Ceiling horn/strobe

**SRL/SWL:** Wall strobe

**SCRL/SCWL:** Ceiling strobe

**SPSRL/SPSCWL:** Ceiling speaker/strobe

**SPSRL/SPSWL:** Wall speaker/strobe

**SPRL/SPWL:** Wall speaker

**SPCRL/SPCWL:** Ceiling speaker

## SWIFT WIRELESS DEVICES

*SWIFT is only compatible with System Sensor (SK) devices. It is not compatible with Hochiki (SD) devices.*

**WSK-WGI:** Wireless Gateway

**WSK-PHOTO:** Wireless Photoelectric

smoke detector

**WSK-PHOTO-T:** Wireless Multi-criteria photoelectric smoke detector with thermal detection (135°F fixed temperature) and B510W 4" base

**WSK-HEAT:** Wireless Heat, (135°F fixed temperature) and B510W 4" base

**WSK-HEAT-ROR:** Wireless heat, ROR (135°F fixed temperature) and B510W 4" base

**WSK-MONITOR:** Wireless monitor module

**WSK-RELAY:** Wireless relay module

**W-USB:** SWIFT Tools USB transceiver used for communication with SWIFT devices

## SBUS ACCESSORIES

**5496:** A 6 amp notification power expander with four power-limited notification appliance circuit outputs.

**5883:** Relay interface. Provides 10 Form C relays.

**5824:** Serial/Parallel printer interface module for printer connection.

**5895XL:** Power supply with six Flexput™ circuits, and two Form C relays. Max. 16 per system.

**5815RMK:** Remote mounting kit. Dimensions 10 3/8"W x 10-3/16"H x 3"D

## COMMUNICATION OPTIONS

**CELL-CAB-SK:** Cellular communicator, metal enclosure with lock/key\*

**CELL-MOD:** Cellular communicator, plastic enclosure\*

\*Sole path, powered by panel.

**IPGSM-4G:** Dual path fire alarm communicator, cellular and/or IP (primary or backup, selectable)

**SK-IP-2:** Remote reporting via the Internet. Requires a VisorAlarm® receiver at the central station

## MISC. ACCESSORIES

**SK-NIC:** Network Interface Card. Provides a common communications link for the 6700

**SK-NIC-KIT:** Installation Accessory Kit

**SK-FML:** Fiber-Optic Multi Mode, transmitter and receiver

**SK-FSL:** Fiber-Optic Single Mode

**RBB:** Remote battery box accessory cabinet for batteries that are too large to fit in the FACP cabinet. Dimensions: 16" W x 10" H x 6" D (406mm W x 254mm H x 152mm D).

**SK-SCK:** Seismic Compliance Kit used to securely fasten batteries to the fire panel.

# 6700 Technical Specifications

## PHYSICAL

**Overall Dimensions:** 12.71" W x 15.12" H x 3.33" D

**Weight:** 15 lbs.

**Color:** Red

## ENVIRONMENTAL

**Operating Temperature:** 32°F to 120°F (0°C to 49°C)

**Humidity:** 0 to 93% relative humidity (non-condensing)

## ELECTRICAL

**6700 Primary AC:** 120 VAC @ 60 Hz, 1.5A Total Accessory Load: 2.5A @ 27.4 VDC power-limited

**Standby Current:** 165mA

**Alarm Current:** 310mA

**Battery Charging Capacity:** 7 to 35AH

**Battery Size:** 7AH max. allowed in control panel cabinet. Larger capacity batteries can be housed in RBB accessory cabinet..

## NOTIFICATION APPLIANCE CIRCUITS (NACs)

**Two programmable circuits which can be programmed individually as:**

**NACs:** 2.5A @ 27.4VDC per circuit, power-limited (with a panel maximum current of 2.5A)

**Auxiliary Power Circuits:** 2.5A @ 27.4VDC per circuit, power-limited

Supports Class B (Style 4) and Class A (Style 6 or 7) configuration for the SLC

**WIRING:** See the product manual for wiring details

For a complete listing of all compliance approvals and certifications, please visit [www.silentknight.com](http://www.silentknight.com).

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

For Technical Support, call 800-446-6444.

## For more information

Learn more about Honeywell Silent Knight and other products by visiting [www.silentknight.com](http://www.silentknight.com)

## Honeywell Silent Knight

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Northford, CT 06472  
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**Honeywell**





# 6855

## Remote Annunciator

The 6855 remote annunciator, can be used to operate and program Honeywell Silent Knight fire alarm control panels (FACPs) from anywhere within the system. It provides a convenient way to view system status indicators.

The 6855 comes in a locked, key controlled cabinet – combining security with easy access. It does not require a code or firefighter's key to silence or reset the panel. It also has convenient separate scroll buttons for alarm, supervisory, and trouble conditions.

The remote annunciator communicates with the main fire alarm control panel through an RS-485 connection. When the system is in normal operation and has AC power, the Power LED is lit and all other LEDs are off. The other LEDs turn on as alarms, supervisories, troubles, system silenced, and AC power losses occur.

### COMPATIBILITY

The 6855 is compatible with the following Honeywell Silent Knight FACPs:

- 6820: Addressable fire alarm control panel with up to 1,110 addressable points
- 6820EVS: Addressable fire alarm control panel with an emergency voice system, up to 1,110 addressable points
- 6808: Addressable fire alarm control panel with up to 198 addressable points
- 6700: Addressable fire alarm control panel with up to 100 addressable points

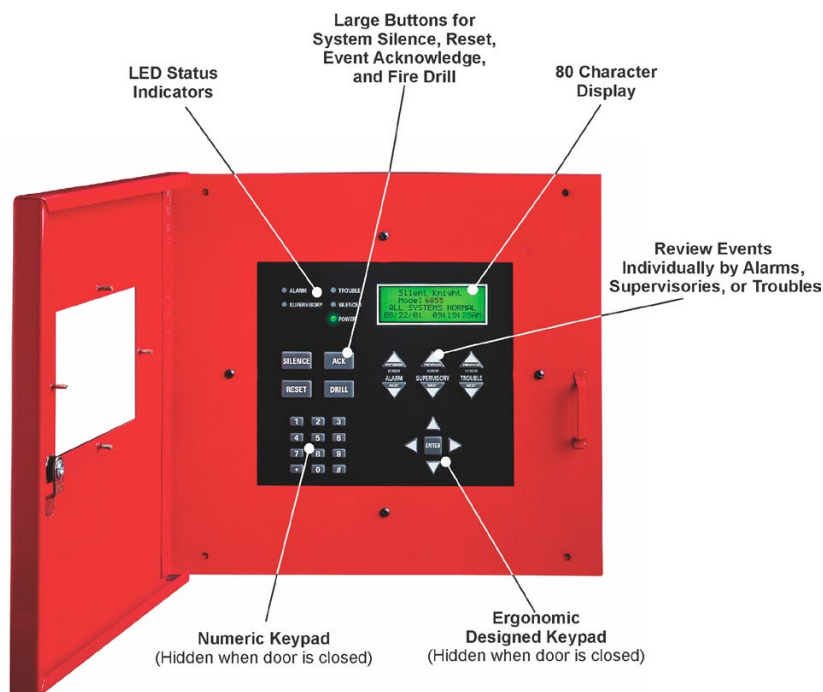
## FEATURES & BENEFITS

- 80-character backlit LCD display (4 lines with 20 characters per line) provides ample space for messaging and is easy to read
- Comfortable tactical feel and clear audible confirmation supports accurate programming and easy operation
- Larger keypad buttons makes it easier to maneuver for system reset and silencing
- Initiate and end fire drills with a single key press
- Easily view current status by alarms, supervisories, or troubles
- On-board piezo sounder audibly indicates alarms, troubles, and supervisories
- Five status LEDs make it easier to monitor and respond to status changes. They include: Alarm, Supervisory, Silence and AC Power indicators.
- Accommodates wiring lengths up to 6000 ft. from the control panel for added design and install flexibility
- System access is gained either through a user code or firefighter's key
- Support for simultaneous use of multiple 6855s
- Can be flush or surface mounted depending upon design and installation needs
- Trim ring available for surface mounting.



**6855**

## 6855 Technical Specifications



### 6855 Features

#### PHYSICAL

##### Flush Mount:

**Outside wall:** 12.25"W x 11.5"H x 7/8"D (31.1W x 29.2H x 2.2D cm)

**Inside wall:** 9-3/8"W x 8-3/8"H x 2"D (23.8W x 21.3H x 5.1D cm)

**Surface Mount:** (Including Trim Ring) 12.25"W x 11.5"H x 3"D (31.1W x 29.2H x 2.2D cm)

#### ENVIRONMENTAL

**Operating Temperature:** 32°F to 120°F (0°C to 49°C)

**Humidity:** 10% - 93% non-condensing

#### ELECTRICAL

**Operating Voltage:** 24VDC

**Standby Current:** 20mA

**Alarm Current:** 25mA

#### INSTALLATION

The 6855 can be surface or flush mounted. When flush mounting an electrical box is optional. The RA-100TR trim ring can be used for surface mounts. If using an electrical box, use a 4S, single-gang, or double-gang box.

#### ORDERING INFORMATION

**6855:** Remote Annunciator. Four line (4x20) LCD annunciator. Red.

#### ACCESSORIES

**RA-100TR:** Red. Surface Mount Trim Ring

#### AGENCY LISTINGS AND APPROVALS

UL listed

CSFM # 7165-0559:0500

NFPA 72

FM approved

FDNY COA approved

For a complete listing of all compliance approvals and certifications, please visit [www.silentknight.com](http://www.silentknight.com).

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

For Technical Support, call 800-446-6444.

#### For more information

Learn more about Silent Knight's 6860 and other products available by visiting [www.SilentKnight.com](http://www.SilentKnight.com)

#### Honeywell Silent Knight

12 Clintonville Road  
Northford, CT 06472-1610  
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# 6860

## Remote Annunciator

The 6860 remote annunciator can be used to view system status indicators for Honeywell Silent Knight fire alarm control panels (FACPs) from anywhere within the system. It provides a convenient way to view system status indicators.

The 6860 comes in a locked, key controlled cabinet - combining security with easy access. It does not require a code or firefighter's key to silence or reset a panel, and also has convenient separate scroll buttons for alarm, supervisory and trouble conditions. The remote annunciator communicates with the main fire alarm control panel through an RS-485 connection.

The 6860 has a large 160 character, 4 x 40 display and four programmable buttons. These features provide more options for set-up and operation when compared to similar remote annunciators.

The 6860 can be surface or flush mounted. The RA-100TR trim ring can be used for surface mounts.



**6860**

### COMPATIBILITY

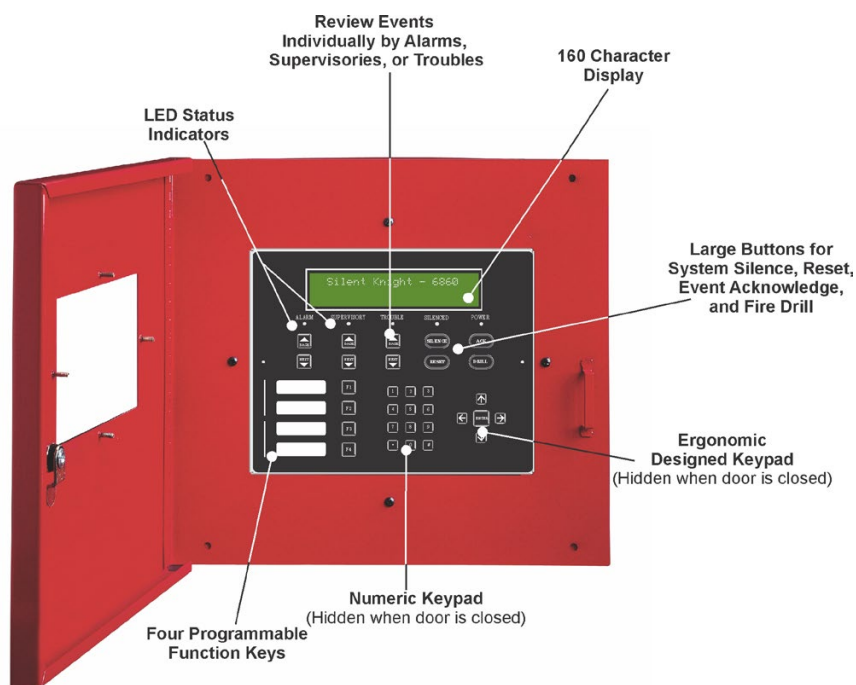
The 6860 is compatible with the following Honeywell Silent Knight FACPs:

- 6820: Addressable fire alarm control panel with up to 1,110 addressable points
- 6820EVS: Addressable fire alarm control panel with an emergency voice system, up to 1,110 addressable points
- 6808: Addressable fire alarm control panel with up to 198 addressable points
- 6700: Addressable fire alarm control panel with up to 100 addressable points

## FEATURES & BENEFITS

- Four line LCD display with 40 characters per line; 160 characters provides ample space for communicating operating messages
- Larger keypad buttons makes it easier to maneuver for system reset and silencing
- Initiate and end fire drills with a single key press
- Easily view current status by alarms, supervisories, or troubles
- On-board piezo sounder audibly indicates alarms, troubles, and supervisories
- Uses the RS-485 SBUS to interface with the panel
- Five status LEDs make it easier to monitor and respond to status changes. They include: Alarm, Supervisory, Silence and AC Power indicators.
- Accommodates wiring lengths up to 6000 ft. from the control panel for added design and install flexibility
- System access through a user code or firefighter's key
- Support for simultaneous use of multiple 6860s
- Can be flush or surface mounted. Trim ring available for surface mounting.
- Four programmable function keys for improved efficiencies and time-savings; frees-up time spent at the panel
- Comfortable tactical feel and clear audible confirmation supports accurate programming and easy operation

# 6860 Technical Specifications



## 6860 FEATURES

### PHYSICAL

#### Flush Mount

**Outside wall:** 12.25"W x 11.5"H x 7/8"D (31.1W x 29.2H x 2.2D cm)

**Inside wall:** 9-3/8"W x 8-3/8"H x 2"D (23.8W x 21.3H x 5.1D cm)

**Surface Mount:** (Including Trim Ring) 12.25"W x 11.5"H x 3"D (31.1W x 29.2H x 2.2D cm)

### ENVIRONMENTAL

**Operating Temperature:** 32°F to 120°F (0°C to 49°C)

**Humidity:** 0 to 93% relative humidity (non-condensing)

### ELECTRICAL

**Operating Voltage:** 24VDC

**Standby Current:** 25mA

**Alarm Current:** 50mA

### ORDERING INFORMATION

**6860:** Remote Annunciator. Four line (4x40) LCD annunciator. Red

### ACCESSORIES

**RA-100TR:** Red surface mount trim ring

### AGENCY LISTINGS AND APPROVALS

UL listed

CSFM # 7165-0559:0500

NFPA 72

FM approved

FDNY COA approved

For a complete listing of all compliance approvals and certifications, please visit [www.silentknight.com](http://www.silentknight.com).

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For Technical Support, call 800-446-6444.

### For more information

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# TG-7FS LTE-A

P/N: TG7LAF01

CELLULAR ALARM  
COMMUNICATOR  
FOR LTE NETWORKS



## COMMERCIAL FIRE

### PRODUCT FEATURES

- ▣ Certified for use on the AT&T LTE network for long, sunset-free installation.
- ▣ Meets UL 864 requirements for sole, primary or backup path communications.
- ▣ Minimizes false alarms by providing dual paths for self-tests.
- ▣ Falls back to 3G/4G if an LTE network is not available, for extended network coverage.

The Telguard TG-7FS LTE-A is the ideal cellular alarm communications solution for commercial fire systems. The TG-7FS LTE-A transmits alarm signals from the fire panel over the digital cellular network to the designated monitoring station.

Compliant with the 2016 Edition of NFPA 72, the TG-7FS LTE-A can serve as the sole communications path for the fire alarm system. It replaces all of the landlines currently dedicated to the master control unit. On average, cellular monitoring costs the end user significantly less than a dedicated landline. For each landline replaced with a TG-7FS LTE-A, the monthly communications bill decreases.

By being able to signal failures to the central station within sixty minutes of an outage, the TG-7FS LTE-A can be installed as the sole path for commercial fire installations. For existing installations, all landlines can be swapped for a single TG-7FS LTE-A because of the new sixty minute supervision mode.

The TG-7FS LTE-A can also be installed as a backup path and upgraded to sole path at a later date.

#### Telguard Portal

Telguard makes adopting cellular easy with a secure Internet portal. The straightforward web interface allows security dealers and central stations to quickly and efficiently access Telguard based services 24/7. This advanced tool has multi-level user authorization and provides total account management of UL Listed Telguard cellular alarm communicators.

#### Telguard Cellular Service

Telguard Cellular Service provides AT&T LTE network coverage for all Telguard units. Telguard's Communication Center is UL compliant and provides seamless connectivity between the alarm panel, the Telguard family of products and the central station. Telguard Technical Support provides a single point of contact for both cellular service and Telguard product questions.

#### Advanced Reliability

- Features the ability to utilize multiple cellular technologies to increase availability and reduce false alarms.
- Automatic self-tests with central station notification ensure the cellular system is operating.
- Available relay output for tripping the alarm control panel when a trouble condition occurs.



TELGUARD

# TG-7FS LTE-A

CELLULAR ALARM  
COMMUNICATOR  
FOR LTE NETWORKS

## Power

- **Transmit Power:**  
200 mW in all bands.
- **Power Consumption:**  
60mA (Standby)  
250mA (Transmission).
- **Transformer:** 12VAC, 800mA  
UL listed plug-in.

## Radio Transceiver

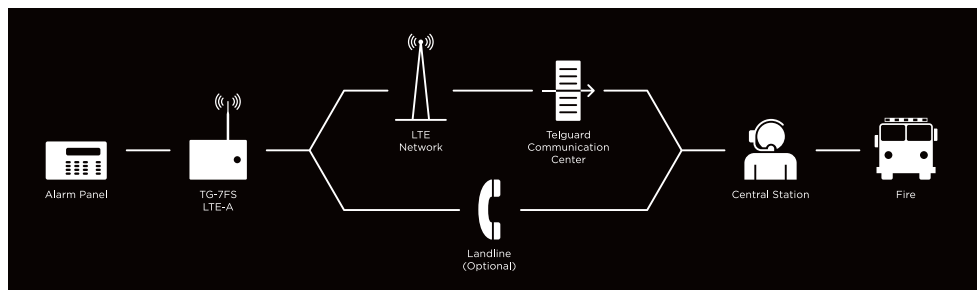
- **LTE Bands:** 2, 4 & 17.
- **3G Bands:** 2 & 5.
- **Antenna:** 9" dipole with max gain of 3dBi.
- FCC part 15, 22, 24, 27 and 68 compliant.

## Physical Details

- **TG-7FS LTE-A:** 7.5" H x 11.5" W x 3.5" D.
- **Shipping Weight:** 8lbs.
- **Operating Environment:**  
0°C to +50°C; up to 95% humidity (non-condensing).

## Standard Features

- Full data reporting.
- Automatic self-test (60 min. & daily).
- Locking, red metal enclosure.
- Two programmable supervisory trip outputs.
- Alarm format support for SIA2, Contact ID, pulse (3x1, 4x2), modem IIe, & IIIa<sup>2</sup>, DMP.
- Telephone line monitor built-in, with Standard Line Security.



Telguard technology allows full data reporting for unlimited point-to-point signal details and maximum transmitting power for superior in-building penetration.

Telguard products are easy to install, economical, and UL Listed.

## Accessories

- ACD 12, ACD 35, ACD 50, ACD 100:  
12/35/50/100 feet of low loss, high performance cable.
- HGD-L-0: High gain directional antenna.
- EXDL-0: External antenna.

## UL Listings

### Commercial Fire 864

- Control units & accessories for fire alarm systems

### Commercial Burglary

- 365 • Police Station connected burglar alarm units and systems
- 1610 • Central station burglar alarm units; Line security services

### Residential

- 985 • Household fire warning systems
- 1023 • Household burglar alarm systems

## ULC Listings

- S545 • Canadian household fire warning systems
- S304 • Canadian commercial burglary alarm systems
- C0123 • Canadian household burglary alarm systems

\* For the most current product specifications and UL Listings visit [www.Telguard.com](http://www.Telguard.com).







# TG-7FS

## LTE-V

P/N: TG7LVF01

CELLULAR ALARM  
COMMUNICATOR  
FOR LTE NETWORKS



### 🔥 COMMERCIAL FIRE

#### PRODUCT FEATURES

- ▶ Certified for use on Verizon's LTE network for long, sunset-free installation.
- ▶ Meets UL 864 requirements for sole, primary or backup path communications.
- ▶ Minimizes false alarms by providing dual paths for self-tests.

The Telguard TG-7FS LTE-V is the ideal cellular alarm communications solution for commercial fire systems. The TG-7FS LTE-V transmits alarm signals from the fire panel over the digital cellular network to the designated monitoring station.

Compliant with the 2016 Edition of NFPA 72, the TG-7FS LTE-V can serve as the sole communications path for the fire alarm system. It replaces all of the landlines currently dedicated to the master control unit. On average, cellular monitoring costs the end user significantly less than a dedicated landline. For each landline replaced with a TG-7FS LTE-V, the monthly communications bill decreases.

By being able to signal failures to the central station within sixty minutes of an outage, the TG-7FS LTE-V can be installed as the sole path for commercial fire installations. For existing installations, all landlines can be swapped for a single TG-7FS LTE-V because of the new sixty minute supervision mode.

The TG-7FS LTE-V can also be installed as a backup path and upgraded to sole path at a later date.

#### Telguard Portal

Telguard makes adopting cellular easy with a secure Internet portal. The straightforward web interface allows security dealers and central stations to quickly and efficiently access Telguard based services 24/7. This advanced tool has multi-level user authorization and provides total account management of UL Listed Telguard cellular alarm communicators.

#### Telguard Cellular Service

Telguard Cellular Service provides Verizon LTE network coverage for all Telguard units. Telguard's Communication Center is UL compliant and provides seamless connectivity between the alarm panel, the Telguard family of products and the central station. Telguard Technical Support provides a single point of contact for both cellular service and Telguard product questions.

#### Advanced Reliability

- Features the ability to utilize multiple cellular technologies to increase availability and reduce false alarms.
- Automatic self-tests with central station notification ensure the cellular system is operating.
- Available relay output for tripping the alarm control panel when a trouble condition occurs.



# TG-7FS

## LTE-V

P/N: TG7LVF01

CELLULAR ALARM  
COMMUNICATOR  
FOR LTE NETWORKS

### Power

- **Transmit Power:**  
200mW in all bands.
- **Power Consumption:**  
60mA (Standby)  
250mA (Transmission).
- **Transformer:** 12VAC, 800mA  
UL listed plug-in.

### Radio Transceiver

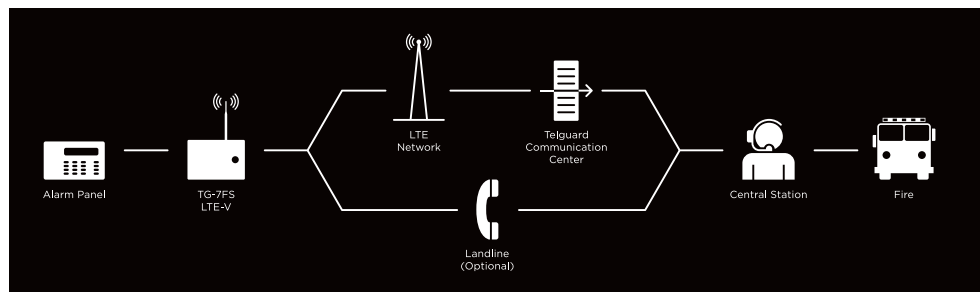
- **LTE Bands:** 4 & 13.
- **Antenna:** 9" dipole with 2dBi gain  
12 ft of cable and universal  
mounting bracket.
- FCC part 15, 27 and 68 compliant.

### Physical Details

- **TG-7FS LTE-V:** 7.5" H x 11.5" W x 3.5" D.
- **Shipping Weight:** 8lbs.
- **Operating Environment:**  
0°C to +50°C; up to 95% humidity  
(non-condensing).

### Standard Features

- Full data reporting.
- Automatic self-test (60 min. & daily).
- Power supply with battery harness.
- Locking, red metal enclosure.
- Two programmable supervisory  
trip outputs.
- Supports virtually all alarm formats  
(Contact ID, SIA2, and others)  
using dial capture for universal  
panel compatibility.
- Telephone line monitor built-in,  
with Standard Line Security.



Telguard technology allows full data reporting for unlimited point-to-point signal details and maximum transmitting power for superior in-building penetration.

Telguard products are easy to install, economical, and UL Listed.

### Accessories

- ACD 12, ACD 35, ACD 50, ACD 100:  
12/35/50/100 feet of low loss, high performance cable.
- HGD-L-0: High gain directional antenna.
- EXDL-0: External antenna.

### UL Listings

**Commercial Fire 864**

- Control units & accessories for fire alarm systems

**Commercial Burglary 365**

- Police Station connected burglar alarm units and systems
- 1610 • Central station burglar alarm units; Line security services

**Residential 985**

- Household fire warning systems
- 1023 • Household burglar alarm systems

\* For the most current product specifications and UL Listings visit [www.Telguard.com](http://www.Telguard.com).





**SILENT  
KNIGHT**

by Honeywell

## **SK-DUCT** **Intelligent Air Duct** **Smoke Detector**

**Detect smoke in air handling systems and air handling equipment with Silent Knight's addressable duct smoke detector**

The SK-Duct Intelligent air duct smoke detector is used with SK-PhotoR (included) for detecting smoke and products of combustion present in air moving through an HVAC air handling system. When smoke is detected in a duct, the unit communicates the condition to the IntelliKnight control panel. The panel, in turn, depending on programming and wiring, turns off fans, blowers, and other devices. The duct housing allows for mounting of SK-Relay addressable relay module. Now there's even more power and flexibility available to the IntelliKnight family of products!

### **Description**

The Model SK-Duct Air Duct Smoke Detector utilizes photoelectric technology for the detection of smoke. It provides early detection of smoke and products of combustion present in air moving through HVAC ducts in Commercial and Industrial applications.

The SK-Duct is in a heavy duty gray steel back box with a clear cover. It features a pivoting housing that fits both square and rectangular footprints capable of mounting to a round or rectangular duct. It installs quickly and easily.

The unit senses smoke in the most challenging conditions, operating in airflow speeds of 100 to 4000 feet per minute, temperatures of -4°F to 158°F, and a humidity range of 0 to 95 percent (non-condensing).

### **Features**

- Versatile mounting options: square or rectangular configuration
- New Cover tamper signal
- LED alarm indication and communication on sensor head
- Detects and limits the spread of smoke
- Rugged steel back box with clear plastic cover
- Easy to clean
- Large terminal connection screws
- Transparent cover for convenient visual inspection
- Patented sampling tube installs from front or back of the detector with no tools required
- Available space within housing to accommodate mounting of relay module
- UL listed



**SK-DUCT**

### **Specifications**

#### **Physical**

(Rectangular): 14.38 in (37 cm) Length;  
5in (12.7 cm) Width; 2.5 in (6.6 cm) Depth

(Square): 7.75 in (19.7cm) Length;  
9 in (22.9cm) Width; 2.5 in (6.35cm) Depth

Weight: 1.6lb (0.73kg)

#### **Environmental**

Operating Temperature: -4°F – 158°F  
(-20°C – 70°C)

Humidity: 0% – 95% (non-condensing)

#### **Air Velocity**

100 to 4000 ft/min (0.5 – 20.3 m/sec.)

#### **Electrical (using SK-Photo or SK-PhotoR)**

Operating Voltage: 15–32 VDC

Standby Current: 300 µA @ 24 VDC max.

Alarm Current: 6.5 mA @ 24 VDC max  
(with LED on)

# Model SK-DUCT

## Air Duct Smoke Detector

### Engineering Specifications

The air duct smoke detector shall be a SK-Duct photoelectric duct smoke detector. The detector housing shall be UL listed per UL 268A specifically for use in air handling systems. The flexible housing of the duct smoke detector fits both square and rectangular footprints. The detector shall operate at air velocities of 100 ft/min to 4000 ft/min (0.5 m/sec to 20.32 m/sec).

The unit shall be capable of providing a trouble signal in the event that the sensor cover is removed or improperly installed. It shall be capable of local testing via magnetic switch or remote testing using the RTS151KEY remote test station. Terminal connections shall be of the strip and clamp method suitable for 12–18AWG wiring.

The unit housing shall be capable of mounting a relay module.

### Ordering Information

SK-Duct	Intelligent non-relay duct smoke detector	M02-04-00	Test Magnet
SK-Photo	Addressable Photo Detector	P48-21-00	Replacement End Cap for Metal Sampling Tube
SK-PhotoR	Addressable Photo Detector with remote test capability (included with SK-Duct)	APA151	Remote annunciator with piezo alarm
SK-Relay	Addressable Relay Module, must be added if relay function is required, (fits in housing)		

#### Accessories†

DST1	Metal Sampling Tube Duct Width up to 1'
DST1.5	Metal Sampling Tube Duct Widths 1' - 2'
DST3	Metal Sampling Tube Duct Widths 2' – 4'
DST5	Metal Sampling Tube Duct Widths 4' – 8'
DST10	Metal Sampling Tube Duct Widths 8' – 12'
DH400OE-1	Weatherproof Enclosure
ETX	Metal Exhaust Tube Duct width 1'
RA100Z	Remote LED Annunciator
DCOIL	Duct accessory coil, required if using with SK-Photo and not SK-PhotoR (included) with SK-Duct
RTS151	Magnetic Remote Test station
RTS151KEY	Key-Activated Remote Test station

#### Important Notes:

- The use of either RTS151 or RTS151KEY requires the installation of an accessory coil, DCOIL, sold separately. Please refer to the SK-Duct installation instructions for more information
- The RTS151/RTS151KEY test coil circuit requires an external 24VDC power supply which must be UL listed.

Accessory Current Loads at 24 VDC		
Device	Standby	Alarm
RA100Z	0mA	12mA Max.
RTS151	0mA	12mA Max.
RTS151KEY	12mA	12mA Max.



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