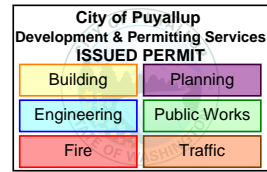




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WASHINGTON STATE FAIR INTERNATIONAL VILLAGE

110 9TH AVENUE SW
PUYALLUP, WA 98371

Fire Alarm System Submittal

Project # 79018-1

Date: 06/09/2025

BRAND	MODEL#	DESCRIPTION
SILENT KNIGHT	SK-6808	Fire Alarm Control Panel
TELGUARD	TG-7FS	Cellular Radio Communicator
SILENT KNIGHT	SK-5496	6 Amp Power Supply
SILENT KNIGHT	SK-PHOTO-W	Addressable Photoelectric Smoke Detector
SILENT KNIGHT	B300-6	Detector Base
SIEMENS	DT-135WP	Conventional Heat Detector, Fixed 135F Degree
SILENT KNIGHT	SK-MONITOR	Addressable Single Input Module
SILENT KNIGHT	SK-MONITOR-2	Addressable Dual Input Module
SILENT KNIGHT	SK-RELAYMON-2	Addressable Dual Input Module w/ 2 Relays
AIR PRODUCTS	MR101-C	Multi-Voltage Relay
SILENT KNIGHT	SK-PULL-SA	Manual Pull Station
SYSTEM SENSOR	P2WLED	Horn Strobe, Wall Mount
SYSTEM SENSOR	PC2WLED	Horn Strobe, Ceiling Mount
SYSTEM SENSOR	SWLED	Strobe, Wall Mount
SYSTEM SENSOR	PC2RKLED	Weatherproof Horn Strobe, Ceiling Mount
SYSTEM SENSOR	P2GRKLED	Weatherproof Horn Strobe, Wall Mount
INTERSTATE	SLA1075	12VDC 8.0 Amp-Hour Rechargeable Battery
INTERSTATE	SLA1104	12VDC 12.0 Amp-Hour Rechargeable Battery
S.A.E.	SSU00674	Document Cabinet

6808

Intelligent Fire Alarm Control Panel with Communicator

The 6808 features a built-in SLC circuit, four Flexput® circuits, dual-line DACT, powerful software features, and connectivity for up to 17 panels.

The 6808 is the latest intelligent addressable FACP (Fire Alarm Control Panel) from Silent Knight and is a direct replacement for the 5808 FACP. The 6808 has one SLC (signaling line circuit) loop for connecting addressable detectors, which can support 99 System Sensor® SK sensors and 99 SK modules or 127 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.

The built-in digital alarm communicator/transmitter (DACT) is dual technology, IP and POTS. The POTS transmits system status (alarms, troubles, AC loss, etc.) to a Central Station via the public switched telephone network. The IP communicator's internet monitoring capability sends alarm signals over the Internet saving the monthly cost of two dedicated business telephone lines. Although not required, the secondary telephone line may be retained providing backup communication over the public switched telephone line. Optional cellular reporting is available.

The 6808 has four onboard Flexput® circuits that can be configured as notification outputs or auxiliary power. There are four types of Aux power available: door holder, constant power, resettable power and sounder sync power. The 6808 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 a calibration trouble alert.

The 6808 supports a variety of devices, including 6860, 5860, or 6855 remote annunciators, 5824 serial/parallel printer interface modules (for printing system reports), 5895XL power modules, and SK, SWIFT® wireless, or SD devices.



FEATURES AND BENEFITS

- Complies with UL 864 10th Edition
- Built-in support for up to 99 IDP/SK detectors and 99 IDP/SK modules or 127 SD SLC devices
- Four Flexput circuits (3 amps max) for NAC outputs or auxiliary power
- Selectable strobe synchronization for Amseco®, System Sensor, Wheelock®, and Gentex® devices
- 250 software zones and 250 output groups for flexible design options
- Built-in dual phone line, digital alarm communicator/ transmitter (DACT) with IP and optional cellular technologies
- Four line LCD display with 20 characters per line
- Built-in USB interface for quick and easy programming
- JumpStart® auto programming reduces installation time
- 13 preset notification cadence patterns (including ANSI® 3.41)
- Allows up to 20 SBUS devices
- Two programmable relays and one fixed trouble relay
- Convenient field-upgradeable firmware
- Supports up to four SWIFT wireless gateways which can foster up to 49 wireless devices each
- Connectivity for up to 17 sites
- Network card allows copper network connection with a multi-mode or single-mode fiber connection
- Programmable date setting for Daylight Savings Time
- History file with 1,000 event capacity
- Can be surface or flush-mounted

USER INTERFACE

LED INDICATORS

- General Alarm (Red)
- Supervisory (Yellow)
- System Trouble (Yellow)
- System Silenced (Yellow)
- System Power (Green)

KEYPAD

- 12-key numeric pad
- Acknowledge
- Alarm Silence
- System Reset
- F1-F4 Programmable Function Keys

PROGRAMMING

The 6808 system offers several options to simplify and expedite programming. JumpStart auto programming minimizes programming required to start a new system. The built-in keypad, or the remote annunciators give on-site access to current system programming. System programming can also be accomplished using the Windows®-based Honeywell Fire Software Suite (HFSS).

ORDERING INFORMATION

→ 6808: Addressable fire alarm control panel, red

COMPATIBLE SBUS DEVICES

6860: 4x40 LCD remote fire annunciator with four programmable buttons, red
5860: 4x20 LCD remote fire annunciator, gray
5860R: 4x20 LCD remote fire annunciator, red
6855: 4x20 LCD remote fire annunciator, red
5865-3: LED annunciators can display up to 30 LEDs (15 red and 15 yellow)
5865-4: LED annunciators can display up to 30 LEDs (15 red and 15 yellow). Key switches for silence and reset, and a system trouble LED
5880: LED I/O module with 40 programmable LED outputs and eight supervised dry contact inputs
5883: Relay interface. Provides 10 Form C relays
5824: Serial/Parallel printer interface module for printer connection

SK COMPATIBLE ADDRESSABLE DEVICES

Note: SK and SD devices cannot be mixed in the same system. Refer to the *Device Compatibility Document* and *SLC Wiring Manual* for more information.

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
OSI-RI-SK: Reflected beam smoke detector, SK protocol
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-FIRE-CO-W: Four criteria fire and carbon monoxide detector, white

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

SK-HEAT-W: Fixed thermal detector (135°F), white

SK-HEAT-ROR: Fixed rate of rise detector

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

SK-HEAT-HT-W: Fixed high temperature thermal detector (190°F), white

SK-HEAT-ROR-W: Fixed rate of rise detector, white

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-W: Photoelectric smoke detector, white

SK-PHOTO-R: Photoelectric detector with remote test capability

SK-PHOTO-R-W: Photoelectric detector with remote test capability, white

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

SK-PHOTO-T-W: Photoelectric smoke detector with fixed thermal heat (135°F), white

SK-PTIR-W: Multi criteria photoelectric smoke detector with thermal 135°F fixed temperature, white

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

SK BASES

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

Note: SK and SD devices cannot be mixed in the same system.

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/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

SWIFT WIRELESS DEVICES

Note: 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 with B501W base

WSK-PHOTO-T: Wireless photoelectric smoke detector with fixed thermal detection (135°F) and B501W base

W-SYNC: Wireless sync module

WSK-HEAT: Wireless, fixed heat detector (135°F) with B501W base

WSK-HEAT-ROR: Wireless rate-of-rise heat detector and B501W base

WSK-MONITOR: Wireless monitor module

WSK-RELAY: Wireless relay module

WSK-PULL-DA: Wireless pull station

WAV-CRL, WAV-CWL: Wireless AV bases

W-USB: Wireless USB radio/antenna dongle that plugs into the USB port of a PC running SWIFT Tools

SWIFT Tools: Programming and diagnostic utility for the wireless gateway and devices. Available for download from www.farenhyt.com

SYSTEM EXPANDERS

5895XL: 6A power supply with six Flexput circuits and two Form C relays

5496: 6A NAC power expander with four power-limited output circuits

OPTIONAL COMMUNICATORS

HWF2A-COM: Digital Cellular Fire Alarm Communicator and Internet Panel, AT&T

HWF2V-COM: Digital Cellular Fire Alarm Communicator and Internet Panel, Verizon

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

MISCELLANEOUS ACCESSORIES

SK-NIC: Network Interface Card. Provides a common communications link for the 6808

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

SK-SCK: Seismic compliance kit to fasten batteries to the fire panel

SOFTWARE SOLUTIONS

SKST: Silent Knight Selection Tool provides the installer or design architect with a Windows®-based software system configuration tool to create a detailed bill of material (BOM) and battery calculations

HFSS: Honeywell Fire Software Suite provides remote and local panel programming, detector status, event history and additional data. Databases can be uploaded/downloaded via the panel's USB port using a flash drive. Requires a PC running Microsoft® Windows®.

6808 TECHNICAL SPECIFICATIONS

SYSTEM CAPACITY

Intelligent Signaling Line Circuits: 1
Addressable device capacity: 198 (SK) or 127 (SD)
Programmable software zones: 250
Output circuits: 4 (expandable)
SBUS Devices: 20 (12 annunciators, 8 LED modules)

ELECTRICAL

AC Power: 120 VAC, 60 Hz, 3.3 A
Standby Current: 190 mA
Alarm Current: 250 mA
Flexput Circuits: Terminal block provides connections for (four Class B or two Class A) NACs or auxiliary power. Power-limited, supervised circuitry. Maximum current per circuit: 3 A. Cannot exceed 6A total for all circuits. End-of-line resistor: 4.7k ohm, ½ watt for Class B NACs
Communication Loop: Supervised and power-limited, Class A or Class B, 32VDC, 150mA
Two Programmable Relays and One Fixed Trouble Relay: Contact rating: 2.5 A @ 27.4 VDC (resistive), Form C
Battery: Cabinet holds maximum of two 18 AH batteries
Battery Charger Capacity: 17-55 AH

PHYSICAL

Dimensions: 16.4" W x 26.4" H x 4.1" D
(41.66cm W x 67.06cm H x 10.41cm D)
Weight: 45 lbs. (20.4 kg.)
Color: Red

TEMPERATURE AND HUMIDITY RANGES

This system meets NFPA requirements for operation at 0 – 49°C (32– 120°F) and at a relative humidity 93% ± 2% RH (non-condensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

NFPA STANDARDS

The 6808 complies with the following NFPA 72 Fire Alarms Systems requirements: 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

AGENCY LISTINGS AND APPROVALS

UL Listed: S2766
CSFM: 7165-0559:0502
FDNY: COA# 6246
FM Approved
Seismic: (CA) VMA-45894-05C

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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.

Country of origin: USA

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5496

Intelligent Power Module

The 5496 intelligent power module is the most cost-effective power supply available today. It delivers 6 amps of notification appliance circuit power and built-in synchronization for appliances from System Sensor®, Gentex®, AMSECO, and Wheelock®. The 5496's advanced microprocessor design is years ahead of the competition. Its switch mode power supply design is up to 50% more efficient than competitive linear mode power supplies.

The 5496 is a 6 amp notification power expander that provides its own AC power connection, battery charging circuit, and backup battery for use with the Honeywell Farenhyt series fire alarm control panels (FACPs). The 5496 is the cost-effective solution for powering notification appliances required by the Americans with Disabilities Act (ADA). The 5496 has built-in ANSI cadence pattern. The output circuits can be programmed as notification appliance circuits, or as auxiliary power (configurable for constant, resettable, or door holder power).



5496

COMPATIBILITY

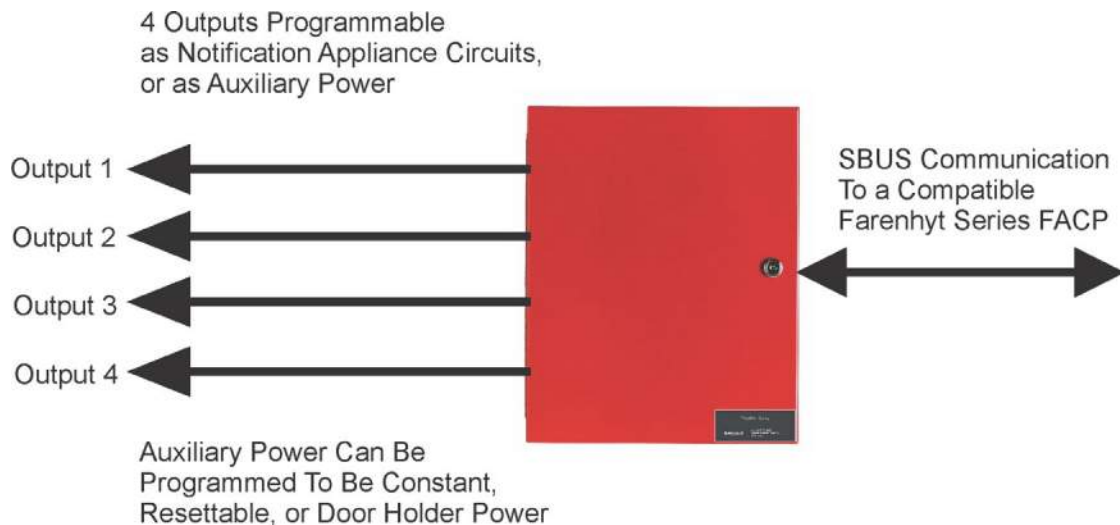
The 5496 is compatible with the following FACPs:

- IFP-2100ECS / IFP-2100ECSB
- IFP-2100 / IFP-2100B / RFP-2100 / RFP-2100B
- IFP-2000 / RPS-2000 / IFP-2000ECS
- IFP-300 / IFP-300B / IFP-300ECS / IFP-300ECSB
- IFP-1000 / IFP-1000ECS
- IFP-100 / IFP-100ECS
- IFP-75
- IFP-50

FEATURES & BENEFITS

- UL Listed for 6 amps of notification power
- Power supply's advanced switch mode design reduces damaging heat and manages power up to 50% more efficiently than other systems
- 24 VDC filtered output voltage
- Built-in synchronization for appliances from Gentex, AMSECO, System Sensor, and Wheelock
- Four power-limited notification outputs; 2 Class A or 4 Class B, or 1 Class A and 2 Class B
- NACs are programmable as notification appliance circuits, or as auxiliary power to be used as constant, resettable, or door holder power
- 3 amps per output circuit
- Ground fault detector
- CSFM approved
- Communicates to the FACP via 4-wire SBUS (wire runs up to 6000 ft)
- AC loss delay option shuts off power to non-essential high current accessories like magnetic door holders
- MEA approved
- Lightweight design adds to ease of installation and reduces shipping costs
- ANSI Cadence pattern output capability built-in
- UL 864 & 1481 listed
- OSHPD (CA) OSP-0065-10 (see accessories)

5496 Technical Specifications



For a complete listing of all compliance approvals and certifications, please visit www.farenhyt.com.

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For Technical Support, Please call 800-446-6444.

PHYSICAL

Overall Dimensions: 16" H x 12.25" W x 3" D (40.6 x 30.9 x 7.6 cm)

Shipping Weight: 8.7lbs

ENVIRONMENTAL

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

Humidity: 10 to 93% relative humidity (non-condensing)

ELECTRICAL:

AC Input: 120VAC at 2.7A

Output: 24VDC at 6A

Standby & Alarm Current: 10mA

Notification/Aux. Power Circuits: 4

Output Configuration:

2 Class A (Style Z)

4 Class B (Style Y)

1 Class A & 2 Class B

Amps Per Output Circuit: 3.0 (6.0 amps total)

Notification Circuit Output: 20.4 – 27.3VDC @ 3.0A each

End-of-Line Resistance: 4.7k Ω EOL resistor required on each Class B circuit

Battery Charging Capacity: 7.0 – 35.0AH

ORDERING INFORMATION

5496: Intelligent Power Module

ACCESSORIES

RBB: Remote Battery Box Accessory Cabinet. 16" W x 10" H x 6" D (406 mm W x 254 mm H x 152 mm D)

SK-SCK: Seismic Compliance Kit

AGENCY LISTINGS AND APPROVALS

- CSFM approved
- NFPA 72
- UL listed
- FM approved
- City of NY: 429-90-E Vol XIV

For more information

Learn more about Honeywell's Farenhyt Series and other products available by visiting www.farenhyt.com

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Honeywell



TELGUARD

THE ALARM COMMUNICATION EXPERTS

TG-7FS

5G LTE-M CELLULAR COMMUNICATOR FOR COMMERCIAL FIRE



COMMERCIAL FIRE

Part of the full line of Telguard universal fire communicators, the TG-7FS can augment or replace legacy Telco lines with reliable cellular signal reporting. AHJs know that the TG-7FS meets all UL and ULC standards, and works in virtually every installation.

PRODUCT FEATURES

- ▀ Powers directly from a 12 or 24VDC alarm panel — no electrician needed for an outlet. Or, for AC, use included plug-in adapter.
- ▀ Operates on LTE-M networks, for 5G longevity, lower power consumption, and better in-building penetration.
- ▀ Interfaces with fire panels using a single DACT connection for universal compatibility. No DACT is no problem — just add a TG-PEM accessory to the TG-7FS.
- ▀ American made, and backed by award-winning, U.S.-based tech support.

This is the communicator dealers have loved for over a decade, updated with a more modern 5G LTE-M cellular radio, more efficient use of power, and more options.

You're in control when setting up and installing the TG-7FS. Apply desired settings when you're in the office or on the road using the Telguard online dealer portal. Signals can be reported to your central station of choice.

UL Listings (AT&T and Verizon)

- 864 Commercial Fire
- 1610 Central Station

ULC Listings (AT&T Only)

- S559 Commercial Fire
- S304 Commercial Burglary

Models by Carrier

- AT&T (US & Canada): TG-7FS-A
- Verizon (US only): TG-7FS-V

Size (without antenna)

7.5 H x 11.5 W x 3.5 D in
(19.05 x 29.21 x 8.89 cm)

Package Contents

- TG-7FS universal communicator
- Antenna with extension cable
- AC adapter & connector blocks

Compatible Accessories

- TG-PEM to connect DACT-less panels
- Range of antenna cable lengths
- High-gain directional antenna
- External antenna

Specifications

Power Consumption

Standby: 18mA @ 24VDC
40mA @ 12VDC
Transmit: 110mA @ 24VDC
200mA @ 12VDC

Compatible Formats

CID, SIA, Pulse (4x2, 3x1),
Radionics (1le/3a²,4), DMP



For the most current product specifications and UL Listings visit telguard.com/tg-7fs. In Canada, cellular data may be carried by Rogers, Bell, Telus or SaskTel.

CHOOSE THE COMMUNICATOR THAT BEST FITS THE NEEDS OF YOUR UPGRADE, TAKEOVER, OR NEW INSTALL PROJECT.

FIRE PRODUCTS	COMMUNICATION PATHWAYS			INPUT POWER OPTIONS		HARDWARE OPTIONS	
MODEL	CELLULAR	INTERNET	TELCO	PANEL DC (12/24V)	PLUG-IN AC	UPGRADE BOARD	TG-PEM
TG-7FS	✓		✓	✓	✓	TG-7UB	✓
TG-7FE	✓	✓		✓	✓		✓
TG-7FP	✓			✓			

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SK-PHOTO-W SERIES

Addressable Photoelectric Smoke Detectors

The Silent Knight® SK-PHOTO-W Series feature a modern design and expanded color options support a variety of contemporary aesthetic demands. In addition, each detector is constructed for exceptional installation and maintenance efficiency.



The SK-PHOTO-W Series intelligent plug-in smoke detectors are designed for both performance and aesthetics, and are direct replacements for the SK-PHOTO Series detectors. A new modern, sleek, contemporary design and enhanced optical sensing chamber is engineered to sense smoke produced by a wide range of combustion sources in accordance with more stringent code standards. The SK-PHOTO-W Series detector sensitivity can be programmed in the control panel software. Sensitivity is continuously monitored and reported to the panel. Point ID capability allows each detector's address to be set with rotary, decimal address switches, providing exact detector location for selective maintenance when chamber contamination reaches an unacceptable level. Dual electronic thermistors add 135°F (57°C) fixed temperature thermal sensing on the SK-PHOTO-T-W. The SK-PHOTO-R-W is a remote test capable detector for use with DNR Series duct detector housings.

FEATURES AND BENEFITS

- Designed to meet UL 268 7th Edition
- Sleek and stylish contemporary design
- Stable communication technique with noise immunity
- Addressable by device
- Rotary, decimal addressing (Refer to the Silent Knight panel manuals for device capacity)
- Two-wire SLC connection
- LEDs blink every time the unit is polled
- 360°-field viewing angle of the visual alarm indicators (two bi-color LEDs); LEDs blink green in Normal condition and turn on steady red in Alarm
- Integral communications and built-in device-type identification
- Remote test feature from the panel
- Built-in functional test switch activated by external magnet
- Walk test with address d351634isplay (an address of 121 will blink the detector LED 12-(pause)-1)
- Low standby current
- Built-in tamper-resistant feature
- Designed for direct-surface or electrical-box mounting
- Sealed against back pressure
- Plugs into separate base for ease of installation and maintenance
- Expanded color options
- SEMS screws for wiring of the separate base
- Optional remote, single-gang LED accessory
- Optional sounder, relay, and isolator bases

INSTALLATION

The SK-PHOTO-W Series plug-in intelligent thermal detectors use a separate base to simplify installation, service, and maintenance. Installation instructions are shipped with each detector.

Mount base (all base types) on an electrical backbox which is at least 1.5" (3.81 cm) deep. For a chart of compatible junction boxes, see SK-61045.

Note: Because of the inherent supervision provided by the SLC loop, end-of-line resistors are not required. Wiring "T-taps" or branches are permitted for Class "B" wiring.

Note: When using relay or sounder bases, consult the SK-ISO installation sheet I56-3627 for device limitations between isolator modules and isolator bases.

OPERATION

Each SK-PHOTO-W Series detector uses one of the panel's addresses (total limit is panel dependent) on the Signaling Line Circuit (SLC). It responds to regular polls from the control panel and reports its type and the status. If it receives a test command from the panel (or a local magnet test), it stimulates its electronics and reports an alarm. It blinks its LEDs when polled and turns the LEDs on when commanded by the panel. The SK-PHOTO-W Series offers features and performance that represent the latest in smoke detector technology.

PRODUCT LINE INFORMATION

Note: "-IV" suffix indicates ivory color.

→ **SK-PHOTO-W:** White, low-profile photoelectric sensor

SK-PHOTO-T-W: White, same as SK-PHOTO-W but includes a built-in 135°F (57°C) fixed-temperature thermal device

SK-PHOTO-R-W: White, low-profile intelligent photoelectric sensor, remote test capable, for use with DNR/DNRW

→ **B300-6:** White, standard flanged low-profile mounting base

B300-6-BP: Bulk pack of B300-6, package contains 10

B300-6-IV: Ivory, standard flanged low-profile mounting base

B501-WHITE: White, standard European flangeless mounting base

B501-BL: Black, standard European flangeless mounting base

B501-IV: Ivory, standard European flangeless mounting base

B501-WHITE-BP: Bulk pack of B501-WHITE, contains 10

B200S-WH: White, Intelligent, programmable sounder base

B200S-IV: Ivory, Intelligent, programmable sounder base

B200SR-WH: White, Intelligent sounder base for retrofit applications

B200SR-IV: Ivory, Intelligent sounder base for retrofit applications

B200S-LF-WH: White, Low Frequency Intelligent, programmable sounder base

B200S-LF-IV: Ivory, Low Frequency Intelligent, programmable sounder base

B200SR-LF-WH: White, Low Frequency Intelligent sounder base for retrofit applications

B200SR-LF-IV: Ivory, Low Frequency Intelligent sounder base for retrofit applications

B224RB-WH: White, plug-in System Sensor® relay base

B224RB-IV: Ivory, plug-in System Sensor relay base

B224BI-WH: White, plug-in System Sensor isolator detector base

B224BI-IV: Ivory, plug-in System Sensor isolator detector base

ACCESSORIES

TR300: White, replacement flange for B210LP or B300-6 bases

TR300-IV: Ivory, replacement flange for B210LP or B300-6 bases

RA100Z(A): Remote 3 – 32 VDC LED annunciator, mounts to a U.S. single-gang electrical box, for use with B501 and B300-6 bases only

M02-04-00: Test magnet

M02-09-00: Test magnet with telescoping handle

CK300: White, detector color kit, pack of 10

CK300-IV: Ivory, detector color kit, pack of 10

CK300-BL: Black, detector color kit, pack of 10

SK-PHOTO-W SERIES TECHNICAL SPECIFICATIONS

PHYSICAL/ENVIRONMENTAL

Sensitivity:

- UL Applications: 0.5% to 4.0% per foot obscuration.
- ULC Applications: 0.5% to 3.5% per foot obscuration

Size: 2.0" (51mm) high; base determines diameter

- B300-6:** 6.1" (15.6 cm) diameter
- B501:** 4" (10.2 cm) diameter

For a complete list of detector bases, see SK-61045.

Shipping weight: 3.4 oz. (95 g)

Operating temperature range:

- SK-PHOTO-W: 32°F to 122°F (0°C to 50°C)
- SK-PHOTO-T-W: 32°F to 100°F (0°C to 38°C)
- SK-PHOTO-R-W installed in a DNR/DNRW: -4°F to 158°F (-20°C to 70°C)

UL/ULC Listed Velocity Range: 0-4000 ft/min. (1219.2 m/min.), suitable for installation in ducts

Relative humidity: 10% – 93% non-condensing

Thermal ratings: fixed-temperature set point 135°F (57°C), rate-of-rise detection 15°F (8.3°C) per minute, high temperature heat 190°F (88°C)

ELECTRICAL SPECIFICATIONS

Voltage range: 15 – 32 volts DC peak

Standby current (max. avg.): 200µA @ 24 VDC (one communication every 5 seconds with LED enabled)

Max current: 4.5 mA @ 24 VDC ("ON")

DETECTOR SPACING AND APPLICATIONS

Silent Knight recommends spacing detectors in compliance with NFPA 72. In low airflow applications with smooth ceiling, space detectors 30 feet (9.1m). For specific information regarding detector spacing, placement, and special applications refer to NFPA 72. A *System Smoke Detector Application Guide*, document SPAG91, available at www.systemsensor.com.

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. *Consult factory for latest listing status.*

- **UL Listed:** S6173
- **FM Approved**
- **CSFM:** 7272-0559:0512

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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.

Country of origin: Mexico

Honeywell Silent Knight

12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.silentknight.com

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Detection Devices

Thermal Fire Detectors

Models DT-135WP and DT-200WP

ARCHITECT AND ENGINEER SPECIFICATIONS

- Rate compensation / fixed temperature
- Self-restoring
- Weatherproof
-  UL Listed



WP Series
(DT-135WP, DT-200WP)

Product Overview

Thermal Fire Detectors (DT-135WP and DT-200WP) from Siemens Fire Safety are of the rate-compensation / fixed-temperature type, and are designed for use with either standard Fire Safety systems or other commercially available fire-alarm systems. The detector element for Models DT-135WP and DT-200WP is self-restoring after operation, and is supplied in ratings of 135°F (57.2°C) and 194°F (90°C).

®Underwriters Laboratories, Inc. recommends the Fire Safety Thermal Fire Detectors be used to protect a maximum of 2,500 square feet. However, job conditions and sound engineering judgment often dictate closer spacing to provide faster detection.

Operation

Each thermal detector generally consists of a tubular shell containing two (2), curved expansion struts under compression fitted with a pair of normally open (N.O), opposed contact points, which are insulated from the shell. The tubular shell and the struts have a different coefficient of expansion. When subjected to a rapid heat rise, the tubular shell expands and

lengthens slightly. Conversely, the interior struts lengthen, but at a slower rate than the shell. The rapid lengthening of the shell allows the struts to come together, thereby closing the contact points and initiating the alarm on the control panel.

When subjected to a very slow heat rise, the tubular shell and the interior struts lengthen at approximately the same rate. At the detectors' set temperature point 135°F (57.2°C) or 194°F (90°C), the interior struts are fully extended, thereby closing the contact points and initiating the alarm at the control panel.

Siemens – Fire Safety's Thermal Fire Detectors, which are shock and corrosion resistant, respond only to heat. Hence, Models DT-135WP and DT-200WP are suitable for use in areas where normal conditions would prohibit the use of other Fire Safety detectors.

When connected to Fire Safety control equipment, Models DT-135WP and DT-200WP detectors are fully compatible with Fire Safety flame detectors, and manual stations.

Operation — (continued)

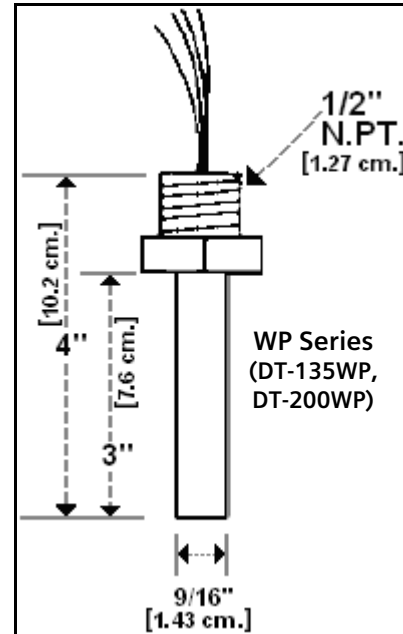
Electrically, any number of thermal detectors can be used in a circuit. The limit is only subject to the practical considerations of job conditions and engineering judgment.

Specifications

The thermal fire detector shall be a Siemens – Fire Safety Models DT135WP and DT-200WP, and shall be of the rate-compensation / fixed-temperature type. The detector shall be listed by ®Underwriter’s Laboratories, Inc.

Models DT-135WP and DT-200WP shall be compatible with Siemens – Fire Safety flame detectors, and manual stations on the same circuit. There shall be no limit, other than practical consideration, to the number of thermal detectors which may be installed in any given circuit.

Mounting Diagram



Details for Ordering

Model	Part Number	Description	Shipping Weight	
			Lb.	Kg.
DT-135WP	500-087260	Rate Compensation / Fixed Temp. 135°F (57.2°C) Detector, Weatherproof	1.0	0.45
DT-200WP	500-087261	Rate Compensation / Fixed Temp. 194°F (90°C) Detector, Weatherproof	1.0	0.45
ADAPT PLATE	500-618020	Adapter Plate Decorator Ring	0.5	0.23

Notice: This marketing data sheet is not intended to be used for system design or installation purposes. For the most up-to-date information, refer to each product’s installation instructions.



SK-MONITOR

Intelligent Monitor Module

The SK-MONITOR is an addressable monitor module for use with Honeywell Silent Knight Series fire alarm control panels (FACPs). The SK-MONITOR is intended for use in intelligent, two-wire systems, where individual address of each module is selected using the built-in rotary switches.

The SK-MONITOR supports Class A supervised or Class B supervised wiring to the load device. Conventional 4-wire smoke detectors can be monitored for alarm and trouble conditions.

INSTALLATION

The SK-MONITOR mounts directly into a 4" square electrical box. The box must have a minimum depth of 2-1/8". A surface mount electrical box (System Sensor® PN SMB500) is available from Silent Knight.



SK-MONITOR

FEATURES & BENEFITS

- Single contact monitor
- Support for Class A and Class B wiring
- Fully supervised
- Panel controlled status LED that flashes green in normal state and is solid red in alarm
- SEMS screws for easy wiring
- UL Listed
- Rotary address switches for fast installation

SK-MONITOR Technical Specifications

PHYSICAL

Height: 4.5"H x 4" W x 1.25"D (11.4 X 10.2 X 3cm)

Shipping Weight: 6.3 oz (196 g)

ELECTRICAL

Operating Voltage: 15 – 32VDC

Current Draw (LED on): 5.0mA max

Operating Current (LED flashing): 375µA

Standby Current: 400 µA max @ 24 VDC (one communication every 5 sec with 47K EOL); 550 µA max @ 24 VDC (one communication every 5 sec with EOL <1K)

5.5 mA (with LED latched on)

LED Current: 5.5 mA (with LED latched on)

End-of-Line Resistance: 47K Ω

Initiating Device Circuit Wiring Resistance: 1,500 Ω max

SLC Loop Resistance: 40 Ω max.

ENVIRONMENTAL

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

Humidity: 10% – 93% non-condensing

ORDERING INFORMATION

SK-MONITOR: Monitor Module

ACCESSORIES

SMB500: 4" Square surface mount electrical box

COMPATIBILITY

The SK-MONITOR is compatible with the following Honeywell Silent Knight fire alarm control panels:

6820: Addressable fire alarm control panel

6820EVS: Addressable fire alarm control panel with an emergency mass notification system.

6808: Addressable fire alarm control panel

6700: Addressable fire alarm control panel

5700: Addressable fire alarm control panel

5808: Addressable fire alarm control panel

5820XL: Addressable fire alarm control panel

5820XL-EVS: Addressable fire alarm control panel with an emergency mass notification system

For a complete listing of all compliance approvals and certifications, please visit www.silentknight.com.

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For Technical Support, call 800-446-6444.

For more information

Learn more about Honeywell Silent Knight and other products by visiting www.silentknight.com

Honeywell Silent Knight

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800-328-0103

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SK-Relaymon-2

Intelligent Dual Monitor Module with Two Relay Outputs

The SK-Relaymon-2 module is capable of monitoring two separate Class B circuits simultaneously, combined with two Form C relay outputs. The SK-Relaymon-2 saves you time and money by reducing what may have taken four modules to accomplish into a single module footprint

For more information about the Intelliknight system, or to locate your nearest source, please call 800-328-0103.

Description

The SK-Relaymon-2 combines two relay outputs and two monitor inputs into one module device. The module is capable of Class B supervised wiring to the monitored devices. It also contains Form C relay contacts allowing the panel to switch the contacts on command. Each monitor input provides an interface between a fire alarm control panel and one or more normally open contact-type devices. Each relay output has its own green LED.

Features

- Monitor two circuits, with unique addresses, simultaneously
- Two Form C relay contacts with each having a unique address
- Fully supervised support for Class B input wiring
- Relay programming is completely flexible – can be mapped to zone conditions
- Individual LED's for each monitored input and relay output
- Attractive ivory cover plate
- Rotary address switches for fast installation
- SEMS screws for easy wiring
- UL listed
- CSFM: 7300-0559:0155



SK-Relaymon-2

Installation

The SK-Relaymon-2 mounts directly into a 4" square electrical box. The box must have a minimum depth of 2-1/8". A surface mount electrical box (System Sensor® PN SMB500) is available from Silent Knight

Compatibility

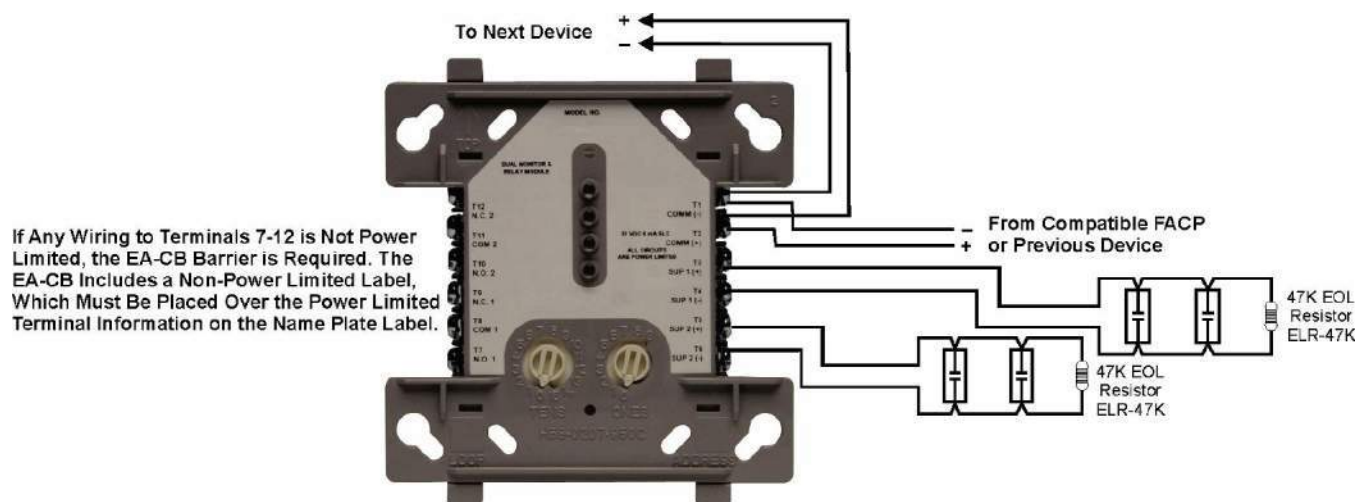
The SK-Relaymon-2 is compatible with the following Intelliknight FACP's:

5820XL
5820XL-EVS
5808
5700

Model SK-Relaymon-2

Intelligent Dual Monitor

Module with Two Relay Outputs



Specifications

Physical

Size: 4.675" H x 4.275" W x 1.4" D (mounts to a 4" square by 2 1/8" deep box)

Shipping Weight: 6.3oz (178.6 grams)

Electrical

Operating Voltage: 15 – 32 VDC

SLC Standby and Alarm Current: 1.3 mA

Environmental

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

Relative Humidity: 10% - 93% non-condensing

Relay Contact Ratings

Current Rating	Maximum Voltage	Load Description	Application
2A	25 VAC	PF = 0.35	Non-coded
3A	30 VAC	Resistive	Non-coded
2A	30 VAC	Resistive	Coded
0.46A	30 VAC	(L/R = 20ms)	Non-coded
0.7A	70.7 VAC	PF = 0.35	Non-coded
0.9A	125 VAC	Resistive	Non-coded
0.5A	125 VAC	PF = 0.75	Non-coded
0.3A	125 VAC	PF 0.35	Non-coded

Ordering Information:

SK-Relaymon-2: Dual Relay/Monitor Module

SMB500: Surface-mount electrical box



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www.silentknight.com



SK-MONITOR-2

Addressable Dual Monitor Module

The SK-MONITOR-2 module is capable of monitoring two separate Class B circuits simultaneously, making it ideal for waterflow tamper switch and flow switch monitoring.

The SK-MONITOR-2 is an addressable monitor module with two initiating circuits for use with Honeywell Silent Knight series fire alarm control panels (FACPs). The SK-MONITOR-2 acts as an interface to contact devices, such as waterflow switches and pull stations.

The SK-MONITOR-2 supports Class B supervised wiring to the load device. Conventional 4-wire smoke detectors can be monitored for alarm and trouble conditions..

INSTALLATION

SK-MONITOR-2 mounts directly into a 4" square electrical box. The box must have a minimum depth of 2-1/8". A surface mount electrical box (System Sensor® part number SMB500) is available from Silent Knight.

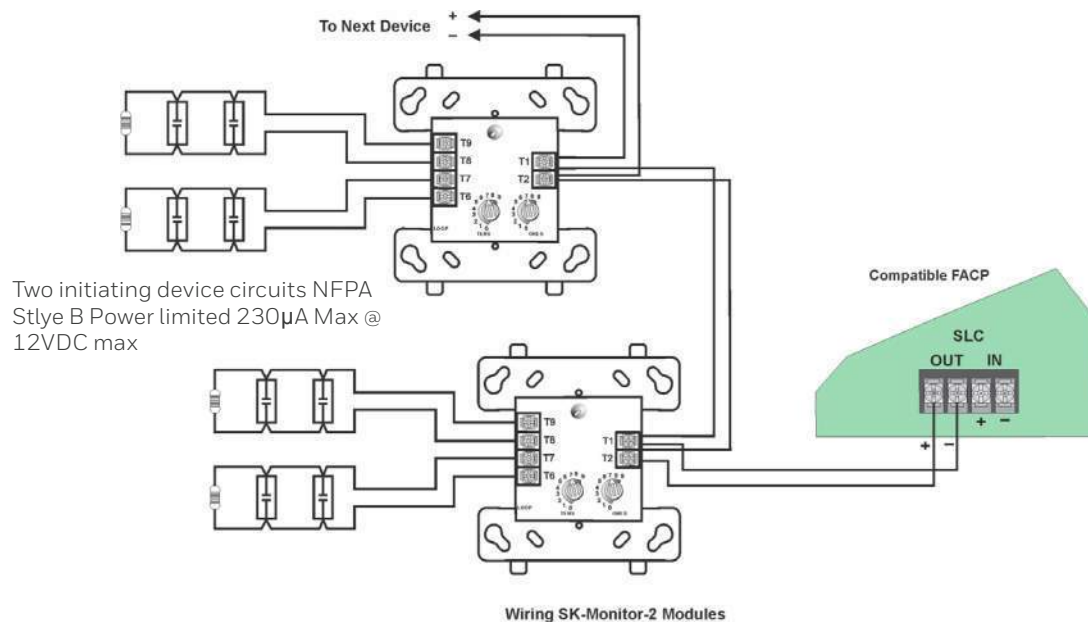


SK-MONITOR-2

FEATURES & BENEFITS

- Monitor two circuits, with unique addresses, simultaneously
- Support for Class B wiring
- Fully supervised
- Panel controlled status LED that flashes green in normal state and is solid red in alarm
- Attractive ivory cover plate
- Rotary address switches for fast installation
- SEMS screws for easy wiring

SK-MONITOR-2 Technical Specifications



PHYSICAL

Height: 4.5" H x 4" W x 1.25" D

Shipping Weight: 6.3 oz (196 g)

ELECTRICAL

Operating Voltage: 15 – 32 VDC

Standby and Alarm Current: 750 μ A max @ 24VDC (one communication every 5 sec with 47K EOL)

End-of-Line Resistance: 47K Ω

ENVIRONMENTAL

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

Humidity: 10% – 93% non-condensing

ORDERING INFORMATION

SK-Monitor-2: Dual Monitoring Module

ACCESSORIES

SMB500: 4" Square Surface Mount Electrical Box

AGENCY LISTINGS AND APPROVALS

UL Listed

CSFM Approved

City of New York Approved

COMPATIBILITY

The SK-MONITOR-2 is compatible with the following Honeywell Silent Knight fire alarm control panels:

6820: Addressable fire alarm control panel

6820EVS: Addressable fire alarm control panel with an emergency mass notification system.

6808: Addressable fire alarm control panel

6700: Addressable fire alarm control panel

5700: Addressable fire alarm control panel

5808: Addressable fire alarm control panel

5820XL: Addressable fire alarm control panel

5820XL-EVS: Addressable fire alarm control panel with an emergency mass notification system.

For a complete listing of all compliance approvals and certifications, please visit www.silentknight.com.

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For more information

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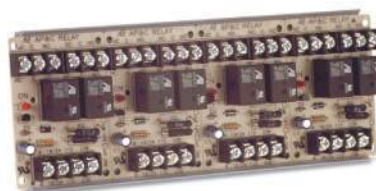
MR-100, 200 SERIES MULTI-VOLTAGE CONTROL RELAYS

PRODUCT DESCRIPTION

The MR Series Multivoltage Control Relays offer SPDT or DPDT 10 Amp resistive contacts which may be operated by one of four input control voltages. A single relay may be energized from a voltage source of 24VDC, 24VAC, 120VAC or 230VAC by wiring to appropriate input terminals.



Each relay position contains a red LED which indicates the relay coil is energized. Relays may be "snapped apart" from a standard 4 module assembly and used independently. These Devices are Ideal for applications where local contacts are required for system status, remote contacts for control of electrical loads and general purpose switching. They are suitable for use with HVAC, Temperature Control, Fire Alarm, Security, Energy Management and Lighting Control Systems.



FEATURES

- ❖ Relays may be energized from a voltage source of 18 to 35VDC or VAC, 120VAC or 230VAC
- ❖ Each relay position contains a red LED, which illuminates when the coil is energized. This provides a time saving device when checking an installed system – no metering is required
- ❖ Single, dual or triple relay modules may be "snapped apart" from standard 4-position master
- ❖ DC control inputs are polarized
- ❖ For continuous duty use at 24VAC, 24VDC or 120VAC
(NOTE: Not intended for continuous duty use @ 230VAC)
- ❖ Available in dust resistant enclosures with LED viewing port(s)
- ❖ /C versions mounted in enclosures
- ❖ /C/R versions with red covers for NYC and other uses
- ❖ /T versions come complete with track mounting hardware which facilitates installation in standard cabinets
- ❖ UL recognized relays rated at 10,000,000 mechanical operations
- ❖ UL listed as Control Unit Accessory

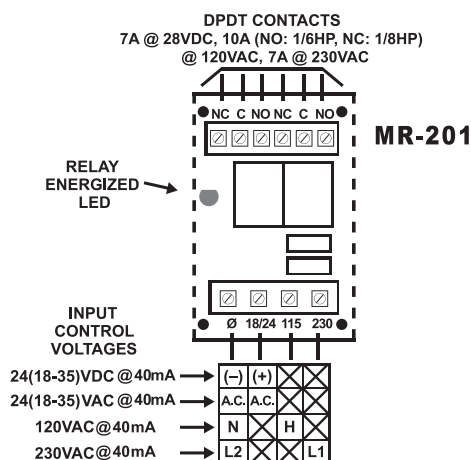
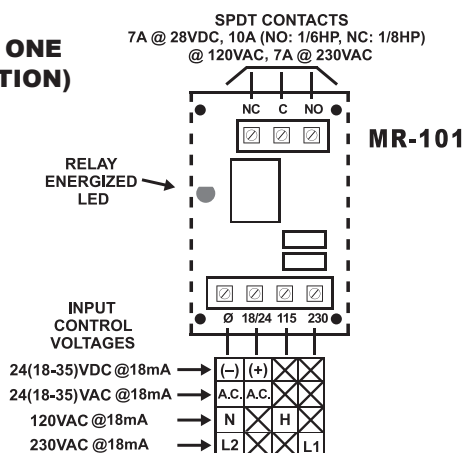


CSFM LISTED

MEA ACCEPTED

RECOGNIZED COMPONENT

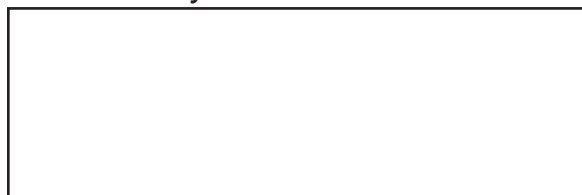
WIRING (TYPICAL FOR ONE MODULE POSITION)



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PRODUCT SPECIFICATIONS

MODEL NUMBER:	MODULE POSITIONS	CONTACT CONFIGURATION PER POSITION	TRACK MOUNTED H X W X D	ENCLOSURE MOUNTED H X W X D	COVER MATERIAL	UL* FILE S3403	MEA FILE 73-92-E	CSFM FILE 7300-1004
MR-101/T	1	SPDT	3.25" (82mm) 2.125" (54mm) 1.50" (38mm)			UOXX2		:106
MR-101/C	1	SPDT		5.125" (130mm) 3.125" (79mm) 2.50" (63mm)	Grey ABS-94VO Plastic	UOXX UOXX2	Vol. 14	:101
MR-101/C/R	1	SPDT			Red ABS-94VO Plastic	UOXX7	Vol. 22	
MR-104/T	4	SPDT	3.25" (82mm) 8.50" (215mm) 1.50" (38mm)			UOXX2		:106
MR-104/C	4	SPDT		5.125" (130mm) 9.50" (241mm) 2.50" (63mm)	Plated 18ga CRS	UOXX UOXX2	Vol. 14	:101
MR-104/C/R	4	SPDT			Red 18ga CRS	UOXX7		
MR-201/T	1	DPDT	3.25" (82mm) 2.125" (54mm) 1.50" (38mm)			UOXX2		:106
MR-201/C	1	DPDT		5.125" (130mm) 3.125" (79mm) 2.50" (63mm)	Grey ABS-94VO Plastic	UOXX UOXX2	Vol. 16	:101
MR-201/C/R	1	DPDT			Red ABS-94VO Plastic	UOXX7	Vol. 22	
MR-204/T	4	DPDT	3.25" (82mm) 8.5" (215mm) 1.50" (38mm)			UOXX2		:106
MR-204/C	4	DPDT		5.125" (130mm) 9.50" (241mm) 2.50" (63mm)	Plated 18ga CRS	UOXX UOXX2	Vol. 16	:101
MR-204/C/R	4	DPDT			Red 18ga CRS	UOXX7		

COIL VOLTAGE: MR-100: 24(18-35)VDC, 24(18-35)VAC, 120VAC, 230VAC
 MR-200: 24(18-35)VDC, 24VAC, 120VAC, 230VAC
 (Pull in voltage: 75% of nominal max. @ 25°C; Drop out voltage: 25% of nominal min. @ 25°C)

POLARIZED: DC input only

ENERGIZED LED INDICATOR: One per module position

CURRENT REQUIREMENT: Per module position: MR-100 Series = 18mA / MR-200 Series = 40mA

CONTACT RATINGS: 7A @ 28VDC / 10A (NO:1/6HP, NC:1/8HP) @ 120VAC / 7A @ 230VAC

CONTACT CONSTRUCTION: Dry Form "C"

ENVIRONMENTAL: 32°F to 120°F (0°C to 49°C) @ 85% RH (@ 32°F), Non-condensing, Non-freezing

WIRING: Solid or stranded; #14 to #22 AWG terminals

/T VERSIONS: 3.5" wide, low profile plastic snap track provided with mounting screws

/C VERSIONS: Backbox: 18ga CRS, plated with 1/2" conduit knockouts top and bottom

*UOXX=Control Unit Accessories, System; 2=Component; 7=Certified for Canada

NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The products described have specific instructional/installation documentation, which covers various technical, approval, code, limitation and liability information. Copies of this documentation along with any general product warning and limitation documents, which also contain important information, are provided with the product and are also available from Air Products and Controls Inc. The information contained in all of these documents should be considered before specifying or using the products. Any example applications shown are subject to the most current enforced local/national codes, standards, approvals, certifications, and/or the authority having jurisdiction. All of these resources, as well as the specific manufacturer of any shown or mentioned related equipment, should be consulted prior to any implementation. For further information or assistance concerning the products, contact Air Products and Controls Inc. Air Products and Controls Inc. reserves the right to change any and all documentation without notice.



SK-PULL-SA / SK-PULL-DA

Intelligent Pull Stations

The SK-PULL-SA is a single action pull station requiring only one motion to activate the station. The SK-PULL-DA is a dual action pull station requiring two motions to activate the station. The SK-PULL-SA and SK-PULL-DA are for use with Honeywell Silent Knight Series fire control panel (FACP).

Extremely easy to operate, the SK-PULL-DA and SK-PULL-SA provide a fast and practical means of manually initiating a fire alarm signal. The FACP recognizes each manual pull station by its specific address saving precious seconds in determining the location of an alarm.

INSTALLATION

The SK-PULL-SA and SK-PULL-DA can be surface mounted to an SB-I/O surface back box or semi-flush mounted on a standard single-gang with a minimum depth of 2.13"(5.40 cm) or double gang or 4" (10.61 cm) square electrical box. You can also use the optional (System Sensor® PN BG-TR) trim ring if the station is being semi-flush mounted.



SK-PULL-SA



SK-PULL-DA

FEATURES & BENEFITS

- Installer can open station without causing an alarm condition
- Dual-color LED is visible through handle of station blinks green to indicate normal operation and remains steady red in an alarm condition
- Key operated test and reset lock using lock plate actuator
- Key matches compatible FACP locks
- Meets ADA requirement for 5 lbs maximum pull force to activate
- Meets the Americans with Disabilities Act Accessibility Guidelines (ADAAG) controls and operating mechanisms guidelines (Section 4.1.3[13])
- Shell, door, and handle molded from durable LEXAN®
- Reliable analog communications for trouble-free operation
- Braille text on station handle
- Rotary address switches for fast installation
- Handle latches in down position and the word Activated appears, clearly indicating the station has been pulled
- UL Listed, including UL 38, Standard of Manually Actuated Signaling System
- CSFM Listed
- MEA Listed

SK-PULL-SA / SK-PULL-DA Technical Specifications

PHYSICAL

Dimensions: 5.5" H x 4" W x 1.45" D (14 x 10.2 x 3.7cm)

Housing Material: LEXAN polycarbonate resin

Bi-Colored LED:

Blinking Green: Normal

Steady Red: Alarm

Switch: Single pole, single throw (SPST) normally open (N/O) switch which closes upon activation of the pull station

ELECTRICAL

Operating Voltage: 15 – 32VDC

SLC Standby and Alarm Current: 350µA

Wire Gauge: Up to 12AWG (3.1 mm²)

ENVIRONMENTAL

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

Humidity: 10% – 93% non-condensing

ORDERING INFORMATION

SK-Pull-SA: Single Action Pull Station

SK-Pull-DA: Dual Action Pull Station

ACCESSORIES

BG-TR: Optional trim ring.

SB-I/O: Surface backbox, indoor/outdoor.

* Unless otherwise noted, specifications apply to SK-Pull-SA and SK-Pull-DA

COMPATIBILITY

The SK-PULL-SA AND SK-PULL-DA are compatible with the following Honeywell Silent Knight fire alarm control panels:

6820: Addressable fire alarm control panel

6820EVS: Addressable fire alarm control panel with an emergency voice system.

6808: Addressable fire alarm control panel

6700: Addressable fire alarm control panel

5700: Addressable fire alarm control panel

5808: Addressable fire alarm control panel

5820XL: Addressable fire alarm control panel

5820XL-EVS: Addressable fire alarm control panel with an emergency voice system

For a complete listing of all compliance approvals and certifications, please visit www.silentknight.com.

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For more information

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L-Series and L-Series with LED Indoor Selectable Horns, Strobes and Horn Strobes

System Sensor L-Series and L-Series with LED audible visible notification products are rich with features guaranteed to cut installation times and maximize profits with lower current draw and modern aesthetics.



Features

- LED technology provides lower current draw
- Digital Voltage Meter (DVM) diagnostic test points for Horn Strobes and Strobes
- Common aesthetics across the L-Series platform
- Standard and compact sizes
- Tamper-resistant construction
- Field-selectable candela settings on wall units: 15, 30, 75, 95, 110, 135, and 185
- Field-selectable candela settings on ceiling units: 15, 30, 75, 95, 115, 150, and 177
- Rotary switches for candela, tone and volume selections
- Mounting plate provides plug-in design for easier installation and shorting springs to check wiring continuity
- Electrically compatible with legacy SpectrAlert, SpectrAlert Advance and L-series devices
- Synchronization through use of UL approved power supplies that support System Sensor Sync protocol or System Sensor MDL3 Sync Module
- Horns, Strobes and Horn Strobes listed for wall or ceiling use

The System Sensor L-Series and L-Series with LED

platform offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry with lower current draw and modern aesthetics. LED lighting technology offers significantly lower current draw compared to older Xenon bulbs across a full candela range. This improves design flexibility for notification appliance circuits (NACs) while also reducing power supply requirements allowing for simpler and lower cost installations.

Flexible design options meet virtually any application requirement: wall or ceiling mount, standard or compact sizes, red or white color choices, bezel kits for alternate markings and languages, and LED color lenses for distinctive visual signaling. In addition, installers can easily adapt devices using field selectable candela, tone and volume settings using rotary switches.

The L-Series and L-Series with LED line is developed to simplify installation. All devices feature plug-in designs with minimal intrusion into the back box, making installations fast and foolproof while virtually eliminating costly and time-consuming ground faults. The universal mounting plate includes an onboard shorting spring, so installers can test wiring continuity before the device is installed.

In addition, the System Sensor L-Series with LED notification appliances offer a new diagnostic test point feature that allows you to measure device voltage with a digital voltage meter (DVM) without removing the appliance from the wall or ceiling. The DVM test points are discreetly located on the face of the notification appliance which enable faster troubleshooting and end of line (EOL) voltage checks while greatly reducing the risk of misplacing or damaging appliances during troubleshooting.

Agency Listings



L-Series and L-Series with LED Specifications

Physical/Electrical Specifications	
Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
Humidity Range	10 to 93% non-condensing
Strobe Flash Rate	1 flash per second
Nominal Voltage, LED Strobes and Horn Strobes	Regulated 24 VDC
Nominal Voltage, Horns	Regulated 12 VDC or regulated 24 DC/FWR
Operating Voltage Range, LED Strobes and Horn Strobes	16 to 33 V (24 V nominal)
Operating Voltage Range, Horns	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
Input Terminal Wire Gauge	12 to 18 AWG

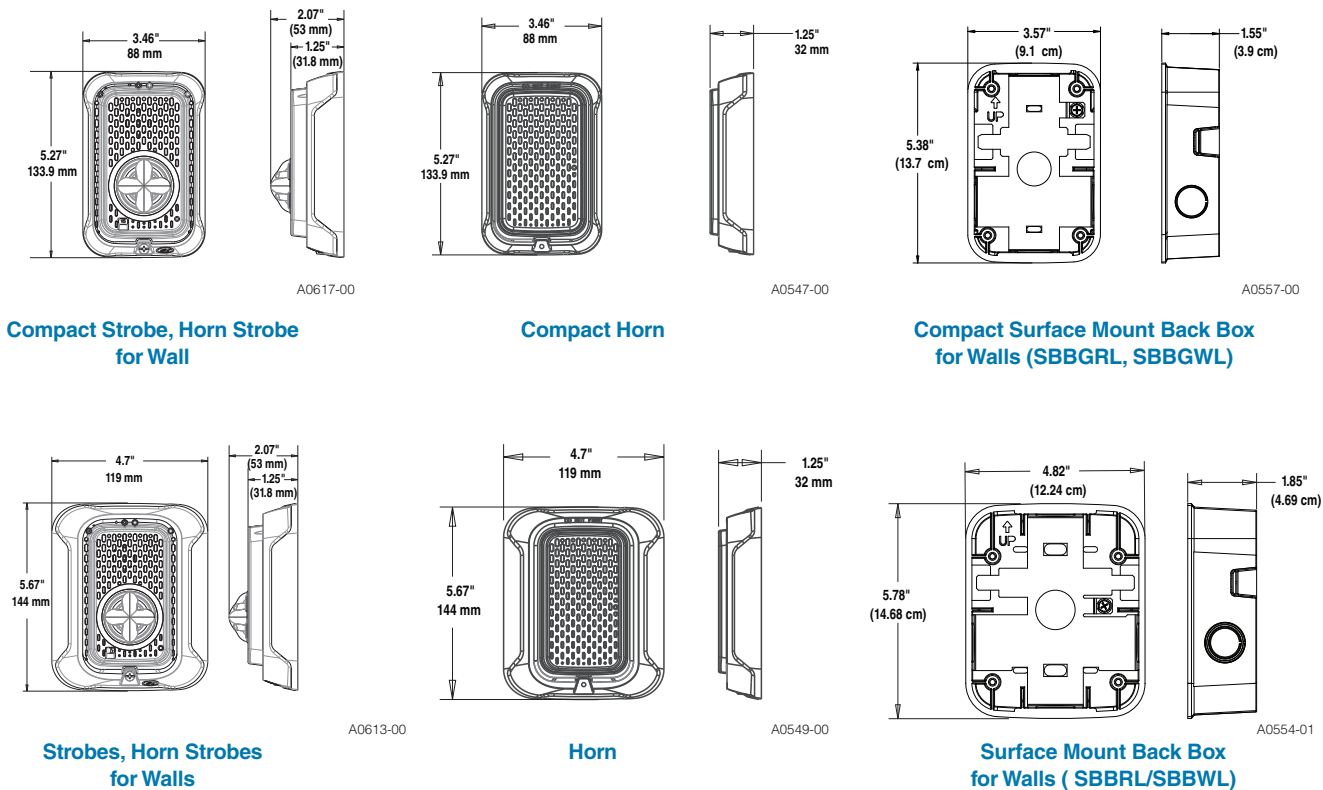
UL/ULC Current Draw Data, Horn Tones, and Sound Output Data

UL/ULC Maximum Strobe Current Draw (mA)			
	Candela Rating	16–33 Volts	
		Wall	Ceiling
Candela Range	15	18	18
	30	22	22
	75	70	70
	95	75	75
	110	85	—
	115	—	90
	135	105	—
	150	—	110
	177	—	115
	185	120	—

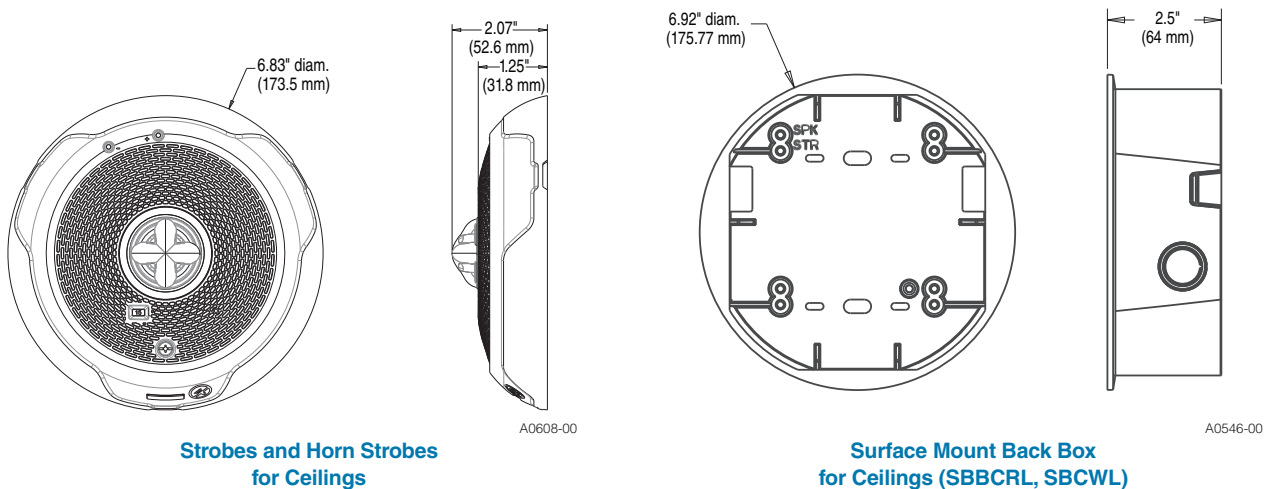
UL/ULC Maximum Horn Current Draw (mA RMS)				
Sound Pattern	dB	8–17.5 Volts	16–33 Volts	
		DC	DC	FWR
Temporal	High	39	44	54
Temporal	Low	28	32	54
Non-Temporal	High	43	47	54
Non-Temporal	Low	29	32	54
3.1 KHz Temporal	High	39	41	54
3.1 KHz Temporal	Low	29	32	54
3.1 KHz Non-Temporal	High	42	43	54
3.1 KHz Non-Temporal	Low	28	29	54
Coded	High	43	47	54
3.1 KHz Coded	High	42	43	54

UL/ULC Maximum Horn Strobe Current Draw (mA) and Sound Output (dBA)													
Switch Pos.	Sound Pattern	Volume Setting	Current Draw (mA RMS), Horn Strobe, Candela Range (15-185 cd)										Sound Output (dBA)
			16-33 Volts										16-33V
			15cd	30cd	75cd	95cd	110cd WALL	115cd CEILING	135cd WALL	150cd CEILING	177cd CEILING	185cd WALL	DC
1	Temporal 3	High	35	38	87	92	94	120	189	189	190	190	87
2	Temporal 3	Low	35	38	87	92	94	120	135	135	145	145	79
3	Non-Temporal	High	50	52	87	92	94	120	127	127	135	135	87
4	Non-Temporal	Low	35	38	87	92	94	120	125	125	130	130	79
5	3.1KHz Temporal 3	High	35	38	87	89	91	115	155	155	165	165	86
6	3.1KHz Temporal 3	Low	35	38	87	89	91	115	128	130	135	135	80
7	3.1KHz Non-Temporal	High	40	42	87	89	91	115	125	125	135	135	86
8	3.1KHz Non-Temporal	Low	35	38	87	89	91	115	120	120	130	130	80

L-Series with LED Dimensions: Wall-Mounted Equipment



L-Series with LED Dimensions: Ceiling-Mounted Equipment



L-Series with LED: Ordering Information

Model	Description
L-Series with LED Horn Strobes	
P2RLED	2-Wire, Horn Strobe, Wall, Red
P2RLED-B	2-Wire, Horn Strobe, Wall, Red, Bilingual
P2WLED	2-Wire, Horn Strobe, Wall, White
P2WLED-B	2-Wire, Horn Strobe, Wall, White, Bilingual
P2GRLED	2-Wire, Compact Horn Strobe, Wall, Red
P2GRLED-B	2-Wire, Compact Horn Strobe, Wall, Red, Bilingual
P2GWLED	2-Wire, Compact Horn Strobe, Wall, White
P2GWLED-B	2-Wire, Compact Horn Strobe, Wall, White, Bilingual
P2RLED-P	2-Wire, Horn Strobe, Wall, Red, Plain
P2WLED-P	2-Wire, Horn Strobe, Wall, White, Plain
P2RLED-SP	2-Wire, Horn Strobe, Wall, Red, FUEGO
P2WLED-SP	2-Wire, Horn Strobe, Wall, White, FUEGO
PC2RLED	2-Wire, Horn Strobe, Ceiling, Red
PC2RLED-B	2-Wire, Horn Strobe, Ceiling, Red, Bilingual
PC2WLED	2-Wire, Horn Strobe, Ceiling, White
PC2WLED-B	2-Wire, Horn Strobe, Ceiling, White, Bilingual
L-Series with LED Strobes	
SRLED	Strobe, Wall, Red
SRLED-B	Strobe, Wall, Red, Bilingual
SWLED	Strobe, Wall, White
SWLED-B	Strobe, Wall, White, Bilingual
SGRLED	Strobe, Compact, Wall, Red
SGRLED-B	Strobe, Compact, Wall, Red, Bilingual
SGWLED	Strobe, Compact, Wall, White
SGWLED-B	Strobe, Compact, Wall, White, Bilingual
SRLED-P	Strobe, Wall, Red, Plain
SWLED-P	Strobe, Wall, White, Plain
SRLED-SP	Strobe, Wall, Red, FUEGO
SWLED-CLR-ALERT	Strobe, Wall, White, ALERT
SWLED-ALERT	Strobe, Wall, White, ALERT, Amber Lens
SCRLED	Strobe, Ceiling, Red
SCRLED-B	Strobe, Ceiling, Red, Bilingual
SCRLED-P	Strobe, Ceiling, White, Plain
SCWLED	Strobe, Ceiling, White
SCWLED-B	Strobe, Ceiling, White, Bilingual
SCWLED-P	Strobe, Ceiling, White, Plain
SCWLED-CLR-ALERT	Strobe, Ceiling, White, ALERT
L-Series Horns	
HRL*	Horn, Red
HRLA*	Horn, Red, Plain, ULC
HWL*	Horn, White
HWLA*	Horn, White, Plain, ULC
HGRL*	Compact Horn, Red
HGRLA*	Compact Horn, Red, Plain, ULC
HGWL*	Compact Horn, White
HGWLA*	Compact Horn, White, Plain, ULC

Model	Description
LED Lenses	
LENS-A3	Lens LED Amber Wall/Ceiling
LENS-B3	Lens LED Blue Wall/Ceiling
LENS-G3	Lens LED Green Wall/Ceiling
LENS-R3	Lens LED Red Wall/Ceiling
Accessories	
TR-2	Universal Wall Trim Ring Red
TR-2W	Universal Wall Trim Ring White
SBBRL	Wall Surface Mount Back Box, Red
SBBWL	Wall Surface Mount Back Box, White
SBBGRL	Compact Wall Surface Mount Back Box, Red
SBBGWL	Compact Wall Surface Mount Back Box, White
TRC-2	Universal Ceiling Trim Ring, Red
TRC-2W	Universal Ceiling Trim Ring, White
SBBCRL	Ceiling Surface Mount Back Box, Red
SBBCWL	Ceiling Surface Mount Back Box, White
Bezels†	
BZR	Wall Red Bezel Kit
BZW	Wall White Bezel Kit
BZGR	Compact Wall Red Bezel Kit
BZGW	Compact Wall White Bezel Kit
BZRC	Horn Strobe Ceiling Red Bezel Kit
BZWC	Horn Strobe Ceiling White Bezel Kit

Notes for L-Series With LED Horn Strobes and Strobes:

All -P models have a plain housing (no "FIRE" marking on cover).
 All -SP models have "FUEGO" marking on cover.
 All -ALERT models have "ALERT" marking on cover.
 All -B models have "FIRE/FEU" marking on cover for use in Canadian applications.
 Amber lenses are not for use in Canadian applications

Notes for L-Series Horns:

*Horn-only models are listed for wall or ceiling use.

Notes for Bezels:

†Each bezel pack ships in a package of 5.
 Add one of the following extensions for print/language options: -F (FIRE), -AL (ALERT), -EV (EVAC), -AG (AGENT), -P (Plain), -FR (FEU), -PG (FOGO), -SP (FUEGO), -SPE (FUEGO/FIRE).

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 AVDS916-01 • 10/03/2023



L-Series Outdoor Horns and L-Series with LED Outdoor Strobes and Horn Strobes

System Sensor L-Series and L-Series with LED Outdoor audible visible notification products are rich with features guaranteed to cut installation times and maximize profits with lower current draw and modern aesthetics.

Features

- Weatherproof per NEMA 4X, IP56 as a standalone device
- Rated from -40°F to 151°F
- Electrically compatible with Legacy SpectrAlert Advance and SpectrAlert devices at 16-33 VDC
- Field-selectable candela settings on wall units: 15, 30, 75, 95, 110, 135, and 185
- Field-selectable candela settings on ceiling units: 15, 30, 75, 95, 115, 150, and 177
- Rotary switches for candela, horn, and volume
- Mounting plates with wirenuts are provided to make the connection between the field wiring and the mounting plates
- Synchronization through use of UL approved power supplies that support System Sensor Sync or System Sensor MDL Sync Module
- Tamper-resistant construction
- Listed for ceiling or wall mounting
- Compact size for Wall Mount



The System Sensor L-Series Outdoor and L-Series with LED Outdoor platforms

offer the most versatile and easy-to-use line of Weatherproof Horns, Horn Strobes, and Strobes that can meet virtually any application requirement, including indoor, outdoor, wet, dry, and washdown environment applications in temperatures from -40°F to 151°F.

The L-Series Outdoor and L-Series with LED Outdoor appliances are NEMA 4X and IP56 rated without having to seal the backbox. Additional caulk or sealant are not required on the backbox for a faster, cleaner installation. The L-Series platform offers a modern aesthetic across the Indoor and Outdoor platform and design variations across applications: wall or ceiling mount, red or white color choices, LED colored lenses for distinctive visual signaling. In addition, installers can easily adjust appliances through field selectable candela, tone, and volume selections using rotary switches.

LED technology offers significantly lower current draw compared to older Xenon bulbs across a full candela range. This improves design flexibility for notification appliance circuits (NACs) while also reducing power supply requirements allowing for simpler and lower cost installations. UL listed waterproof wirenuts are provided to make the connection between the field wiring and the mounting plates.

Outdoor devices ship with plastic back boxes that accommodate in-and-out wiring for daisy chaining devices. Knock-outs located on the back eliminate the need to drill holes for screw-in mounting. Note: When replacing SpectrAlert Advance products, the backbox should be updated to the L-Series with LED backbox.

Agency Listings



Horns: S4011
Horn Strobes and Strobes:
S4011, S5512



3057072
FM23FPUS0195



7125-1653:0537
7300-1653:0536
7125-1653:0535
7135-1653:0534

Product Specifications

Physical/Electrical Specifications	
Standard Operating Temperature	-40°F to 151°F (-40°C to 66°C)
Humidity Range	0 to 95 ±5%
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 24 VDC
Operating Voltage Range	16 to 33 V (24 V nominal)
Wiring between Fire Alarm Control Panel (FACP) and weatherproof back plate	12 to 18 AWG
Environmental Considerations	Devices meet rating requirements for NEMA 4X, Type 4X, and IP56 as a standalone device

Dimensions	
Wall Strobes and Horn Strobes (including lens)	5.84" L x 3.76" W x 1.56" D (148mm x 95.5mm x 39.6mm)
Wall Strobes and Horn Strobes (including lens) with SBBGRL/WL Surface Mount Back Box	5.84" L x 3.76" W x 3.72" D (148mm x 95.5mm x 94.5mm)
Ceiling Strobes and Horn Strobes (including lens)	6.8" diameter x 2.22" D (173mm x 56.4mm)
Ceiling Strobes and Horn Strobes (including lens) with SBBGRL/WL Surface Mount Back Box	6.98" diameter x 4.72" D (177.3mm x 120mm)
Wall Horns	5.84" L x 3.76" W x 1.56" D (148mm x 95.5mm x 39.6mm)
Wall Horns with SBBGRL/WL Surface Mount Back Box	5.84" L x 3.76" W x 3.11" D (148mm x 95.5mm x 79mm)

NOTE: SBBGRL/WL Surface Mount Back box intended for horns, horn strobes, and strobes.

UL/ULC Maximum Strobe Current Draw (mA)

UL/ULC Maximum Horn Current Draw (mA) and Sound Output (dBA)	
Candela Rating	16 to 33 Volts DC
15	18
30	22
75	70
95	75
110	85
115	90
135	105
150	110
177	115
185	120
FCP*	(future)
*FCP Fire Control Panel, future use	

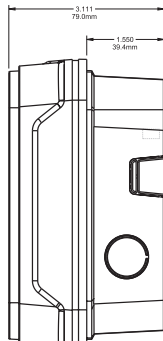
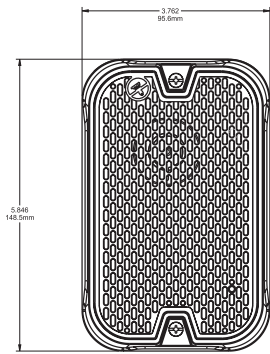
UL/ULC Maximum Horn Current Draw (mA RMS)

UL/ULC Maximum Horn Current Draw (mA) and Sound Output (dBA)				
Pos	Sound pattern	Volume Setting (dB)	Current Draw (mA RMS), Horn	Sound Output (dBA)
			16-33 Volts DC	16-33 Volts DC
1	Temporal	High	35	85
2	Temporal	Low	35	77
3	Non-Temporal	High	50	85
4	Non-Temporal	Low	35	77
5	3.1KHz Temporal	High	35	82
6	3.1KHz Temporal	Low	35	75
7	3.1KHz Non-Temporal	High	40	82
8	3.1KHz Non-Temporal	Low	35	75

UL/ULC Maximum Horn Strobe Current Draw (mA) and Sound Output (dBA)

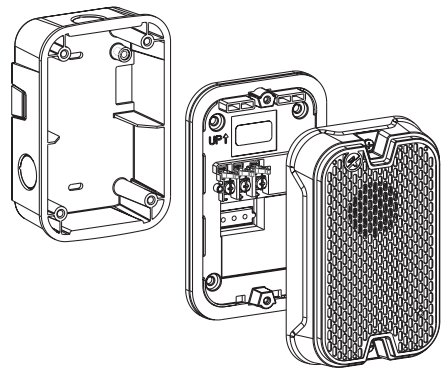
Current Draw (mA RMS), Horn Strobe, Candela Range (15-185 cd)													Sound Output (dBA)
Pos	Tone	Volume Setting	16-33 Volts										DC
			15cd	30cd	75cd	95cd	110cd WALL	115cd CEILING	135cd WALL	150cd CEILING	177cd CEILING	185cd WALL	
1	Temporal	High	35	38	87	92	94	120	189	189	190	190	85
2	Temporal	Low	35	38	87	92	94	120	135	135	145	145	77
3	Non-Temporal	High	50	52	87	92	94	120	127	127	135	135	85
4	Non-Temporal	Low	35	38	87	92	94	120	125	125	130	130	77
5	3.1KHz Temporal 3	High	35	38	87	89	91	115	155	155	165	165	82
6	3.1KHz Temporal 3	Low	35	38	87	89	91	115	128	130	135	135	75
7	3.1KHz Non-Temporal	High	40	42	87	89	91	115	125	125	135	135	82
8	3.1KHz Non-Temporal	Low	35	38	87	89	91	115	120	120	130	130	75

L-Series with LED Outdoor Dimensions: Wall-Mounted Equipment



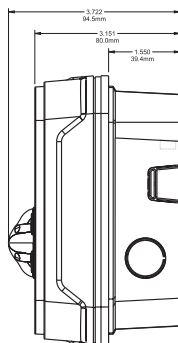
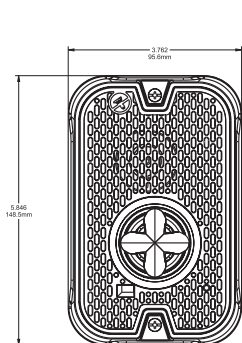
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Outdoor Compact Wall Horn with Compact Surface Mount Back Box (SBBGRL/SBBGWL)



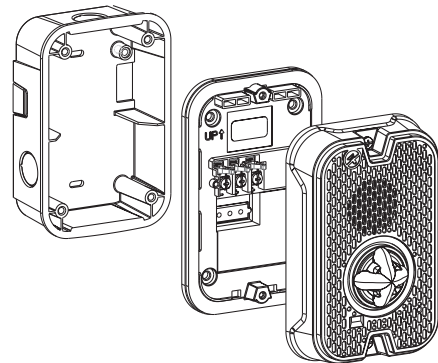
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Outdoor Compact Wall Horn with Compact Surface Mount Back Box (SBBGRL/SBBGWL)



A0613-00

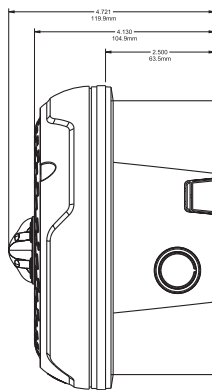
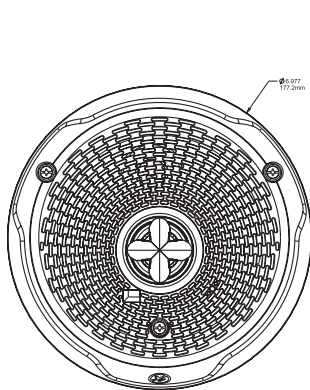
Outdoor Compact Strobes, Horn Strobes for Wall with Compact Surface Mount Back Box (SBBGRL/SBBGWL)



A055v4-01

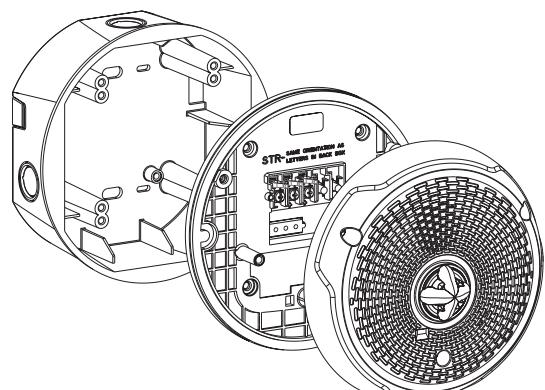
Outdoor Compact Strobes, Horn Strobes for Wall with Compact Surface Mount Back Box (SBBGRL/SBBGWL)

L-Series with LED Outdoor Dimensions: Ceiling-Mounted Equipment



A0608-00

Strobes, Horn Strobes for Ceilings with Surface Mount Back Box (SBBCRL/SBBCWL)



A0546-00

Strobes, Horn Strobes for Ceilings with Surface Mount Back Box (SBBCRL/SBBCWL)

L-Series with LED Outdoor: Ordering Information

Model	Description
L-Series with LED Outdoor Horn Strobes	
→ P2GRKLED	2-Wire, Compact Horn Strobe, Wall, Red
P2GRKLED-P	2-Wire, Compact Horn Strobe, Wall, Red, Plain
P2GRKLED-B	2-Wire, Compact Horn Strobe, Wall, Red, Bilingual
P2GWKLED	2-Wire, Compact Horn Strobe, Wall, White
P2GWKLED-P	2-Wire, Compact Horn Strobe, Wall, White, Plain
P2GWKLED-B	2-Wire, Compact Horn Strobe, Wall, White, Bilingual
→ PC2RKLED	2-Wire, Horn Strobe, Ceiling, Red
PC2RKLED-P	2-Wire, Horn Strobe, Ceiling, Red, Plain
PC2RKLED-B	2-Wire, Horn Strobe, Ceiling, Red, Bilingual
PC2WKLED	2-Wire, Horn Strobe, Ceiling, White
PC2WKLED-P	2-Wire, Horn Strobe, Ceiling, White, Plain
PC2WKLED-B	2-Wire, Horn Strobe, Ceiling, White, Bilingual
L-Series with LED Outdoor Strobes	
SGRKLED	Compact Strobe, Wall, Red
SGRKLED-P	Compact Strobe, Wall, Red, Plain
SGRKLED-B	Compact Strobe, Wall, Red, Bilingual
SGWKLED	Compact Strobe, Wall, White
SGWKLED-P	Compact Strobe, Wall, White, Plain
SGWKLED-B	Compact Strobe, Wall, White, Bilingual
SCRKLED	Strobe, Ceiling, Red
SCRKLED-P	Strobe, Ceiling, Red, Plain
SCRKLED-B	Strobe, Ceiling, Red, Bilingual
SCWKLED	Strobe, Ceiling, White
SCWKLED-P	Strobe, Ceiling, White, Plain
SCWKLED-B	Strobe, Ceiling, White, Bilingual
L-Series Outdoor Horns	
HGRKL	Compact Horn, Red
HGRKL-B	Compact Horn, Red, Bilingual

Model	Description
LED Lenses	
LENS-A3	Lens LED Amber Wall/Ceiling
LENS-B3	Lens LED Blue Wall/Ceiling
LENS-G3	Lens LED Green Wall/Ceiling
LENS-R3	Lens LED Red Wall/Ceiling
Accessories	
SBBGRL	Compact Wall Surface Mount Back Box, Red
SBBGWL	Compact Wall Surface Mount Back Box, White
SBBCRL	Ceiling Surface Mount Back Box, Red
SBBCWL	Ceiling Surface Mount Back Box, White

Notes for L-Series With LED Outdoor Horn Strobes and Strobes:

All -P models have a plain housing (no "FIRE" marking on cover).
 All -SP models have "FUEGO" marking on cover.
 All -ALERT models have "ALERT" marking on cover.
 All -B models have "FIRE/FEU" marking on cover for use in Canadian applications.

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 for current product information, including the latest version of this data sheet.
 AVDS-62173.A • 08/29/2024

GENERAL PURPOSE

SLA1075

Technical Specifications

Nominal Voltage	12V
Nominal Capacity	8Ah (20 Hr Rate to 1.75V/cell)
Chemistry	Lead Acid -AGM

Physical Specifications

Length	151mm	5.94in
Width	65mm	2.56in
Height	94mm	3.70in
Height w/Terminal	100mm	3.94in
Weight (+/- 5%)	2.2 Kg	4.85lbs
Terminal Type	F1	
Case Material	ABS	

Charging Specifications

Charge Voltage	Battery	Per Cell
Float	13.7V~13.9V	2.28V~2.32V
Cycle	14.6V~14.8V	2.43V~2.47V
Max. Charge Current	2.4A	

Capacity Specifications

5 Second Discharge Current	80A		
Self Discharge (to 80% capacity)	3 Months	91%	
	6 Months	82%	
	12 Months	64%	
Internal Resistance	25mΩ(25°C)		

Temperature Specifications

Operating Temperature Capability -40° F (-40° C) to 140° F (60° C)

Recommended parameters for optimal battery life and performance:
Charging: 32° F to 104° F (0° C to 50° C), Discharging: 5° F to 122° F (-15° to 50° C),
Storage: 50° to 77° F (10° C to 25° C)



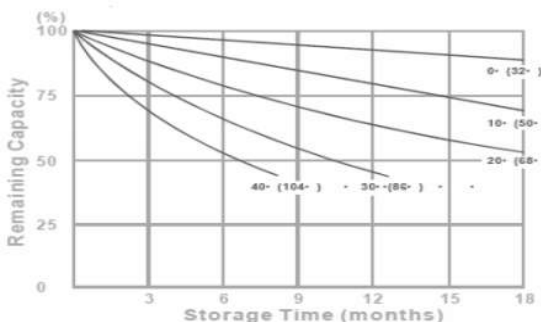
FEATURES:

- Used in several types of application
- Approved for all modes of transport
- More efficient connections between plates & terminals
- VRLA technology to eliminate spills and over-pressure
- Maintenance-free

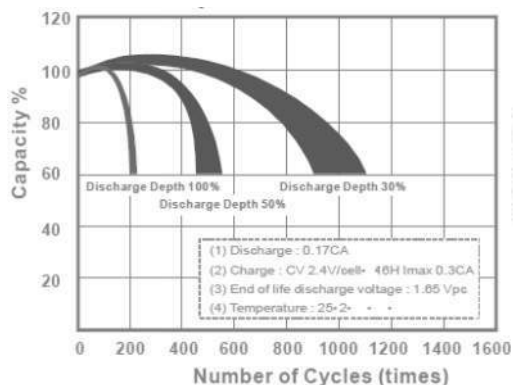


GENERAL PURPOSE

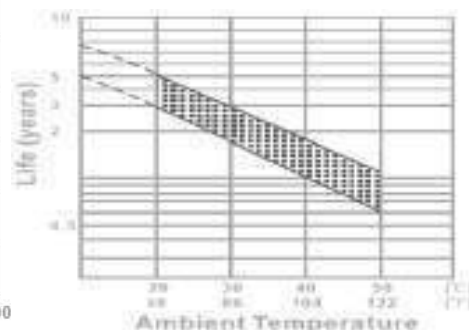
Capacity Retention Characteristics



Cycle Service Life



Trickle (of float) Service Life



Constant Current Discharge Characteristics: A (25°C)

F.V/Time	5 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr
1.85V/cell	20.49	6.92	4.23	1.91	1.31	0.89	0.38
1.80V/cell	23.29	7.46	4.50	2.00	1.36	0.92	0.40
1.75V/cell	25.56	7.89	4.72	2.07	1.40	0.94	0.40
1.70V/cell	27.36	8.21	4.88	2.12	1.43	0.96	0.41
1.67V/cell	28.77	8.47	5.01	2.16	1.45	0.97	0.41
1.60V/cell	29.84	8.66	5.10	2.19	1.47	0.98	0.42

Constant Power Discharge Characteristics: W (25°C)

F.V/Time	5 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr
1.85V/cell	38.60	13.41	8.27	3.79	2.61	1.46	0.77
1.80V/cell	43.10	14.32	8.75	3.95	2.70	1.51	0.79
1.75V/cell	46.49	14.99	9.13	4.06	2.77	1.54	0.81
1.70V/cell	48.89	15.46	9.40	4.15	2.82	1.57	0.83
1.67V/cell	50.83	15.84	9.61	4.21	2.86	1.59	0.83
1.60V/cell	51.37	15.96	9.68	4.24	2.88	1.60	0.83

GENERAL PURPOSE

SLA1104

Technical Specifications

Nominal Voltage	12V
Nominal Capacity	12Ah (20 Hr Rate to 1.75V/cell)
Chemistry	Lead Acid -AGM

Physical Specifications

Length	151mm	5.94in
Width	98mm	3.86in
Height	95mm	3.74in
Height w/Terminal	101mm	3.98in
Weight (+/- 5%)	3.3Kg	7.28lbs
Terminal Type	F2	
Case Material	ABS	

Charging Specifications

Charge Voltage	Battery	Per Cell
Float	13.7V~13.9V	2.28V~2.32V
Cycle	14.6V~14.8V	2.43V~2.47V
Max. Charge Current	3.6A	

Capacity Specifications

5 Second Discharge Current	120A
Self Discharge (to 80% capacity)	3 Months 91%
	6 Months 82%
	12 Months 64%
Internal Resistance	16.5mΩ(25°C)

Temperature Specifications

Operating Temperature Capability -40° F (-40° C) to 140° F (60° C)

Recommended parameters for optimal battery life and performance:

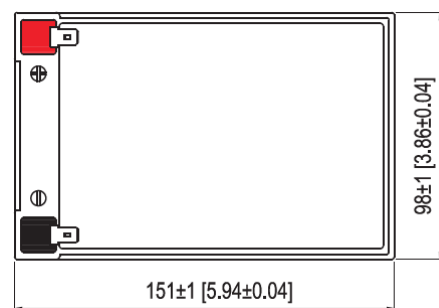
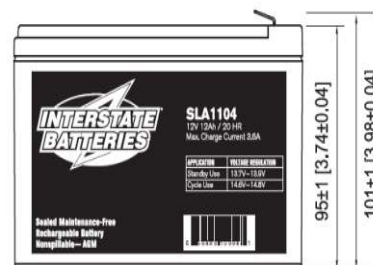
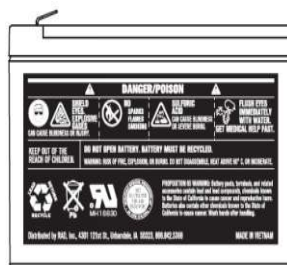
Charging: 32° F to 104° F (0° C to 50° C), Discharging: 5° F to 122° F (-15° to 50° C),

Storage: 50° to 77° F (10° C to 25° C)



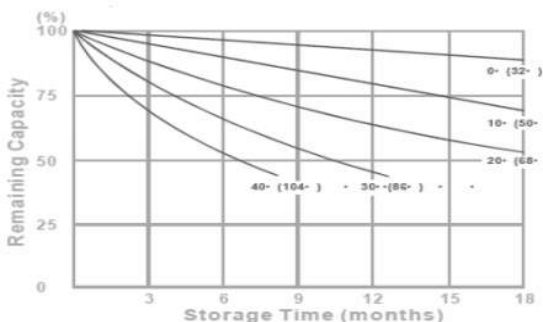
FEATURES:

- Used in several types of application
- Approved for all modes of transport
- More efficient connections between plates & terminals
- VRLA technology to eliminate spills and over-pressure
- Maintenance-free

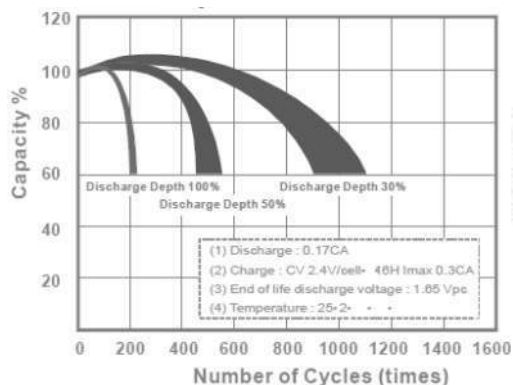


GENERAL PURPOSE

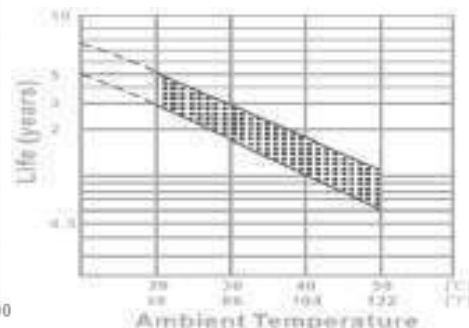
Capacity Retention Characteristics



Cycle Service Life



Trickle (of float) Service Life



Constant Current Discharge Characteristics: A (25°C)

F.V/Time	5 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr
1.85V/cell	31.69	10.48	6.34	2.87	1.96	1.09	0.58
1.80V/cell	36.01	11.30	6.76	3.01	2.04	1.13	0.59
1.75V/cell	39.53	11.95	7.08	3.10	2.10	1.15	0.60
1.70V/cell	42.32	12.45	7.33	3.18	2.15	1.17	0.61
1.67V/cell	44.48	12.83	7.51	3.24	2.18	1.19	0.62
1.60V/cell	46.15	13.11	7.65	3.28	2.21	1.20	0.63

Constant Power Discharge Characteristics: W (25°C)

F.V/Time	5 min	30 min	1 hr	3 hr	5 hr	10 hr	20 hr
1.85V/cell	59.69	20.32	12.41	5.68	3.91	2.19	1.16
1.80V/cell	66.65	21.70	13.13	5.92	4.05	2.26	1.19
1.75V/cell	71.89	22.71	13.69	6.10	4.16	2.31	1.21
1.70V/cell	75.60	23.42	14.10	6.22	4.23	2.35	1.23
1.67V/cell	78.60	24.00	14.41	6.32	4.29	2.38	1.24
1.60V/cell	79.43	24.18	14.53	6.36	4.32	2.40	1.25



BY SPACE AGE ELECTRONICS



FEATURES

- 16 gauge steel construction
- Durable red powder coat
- White 1" indelible lettering "AS BUILT DRAWINGS" on included label
- Stainless steel piano hinge with CAT 30 keyed door lock
- Surface mount box
- Wall mounting holes for vertical or horizontal orientation

DBX

As Built Drawings Cabinets

Offer fire departments and other authorized personnel the convenience of having building layouts and alarm documents readily accessible with one of these durable cabinets available in a variety of sizes.

SPECIFICATIONS

The DBX As Built Drawings Cabinet shall be constructed of 16 gauge cold rolled steel and finished with a durable red powder coat. The front cover will include a durable label displaying "AS BUILT DRAWINGS" in 1" white indelible lettering, applied to the cover relative to the orientation of the installed back box. The front cover will feature a high security CAT 30 keyed door lock. Back box shall have universal surface mount design and wall mounting holes.

ORDERING INFORMATION

P/N#	Size	Width	Height	Depth
SSU00674	AA	12 1/4"	14 1/4"	4"
SSU00677	A	26 1/4"	14 1/4"	4"
SSU00678	D	26 1/4"	23 5/8"	4"