

Fire Alarm Cut Sheets

Project: Puyallup 1
1601 Industrial Parkway
Suite 103
Puyallup, WA 98371

Job #: 16-2488



**SILENT
KNIGHT**

by Honeywell

Addressable Photoelectric Smoke Detector

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

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

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

Model SD505-PHOTO

Analog / Addressable Photoelectric Type Smoke Detector

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

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

Operation

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

The light received is converted into an electronic signal. Under normal conditions, the status LED blinks

approximately every 15 seconds, indicating that the head is communicating with the loop. The LED lights continuously during the alarm period.

Features

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

Specifications

Operating Voltage: 24-41 VDC

Current Consumption:

Standby:	.55 mA
Alarm:	.55 mA



SD505-PHOTO Smoke Detector

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

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

Relative Humidity: 85% non-condensing

Air Velocity: 0 - 300 FPM

Compatible Bases: SD505-6AB
(Sold Separately) SD505-6IB
SD505-6RB
SD505-6SB

P/N 350225 Rev G

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Model SD505-PHOTO

Addressable Photoelectric

Smoke Detector

Engineering Specifications

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

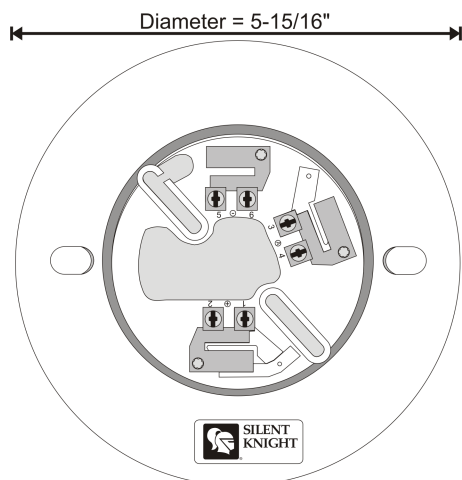
The base shall permit direct interchange with Silent Knight SD505-HEAT Heat Detector. Base shall be the appropriate twist-lock base SD505-6AB.

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

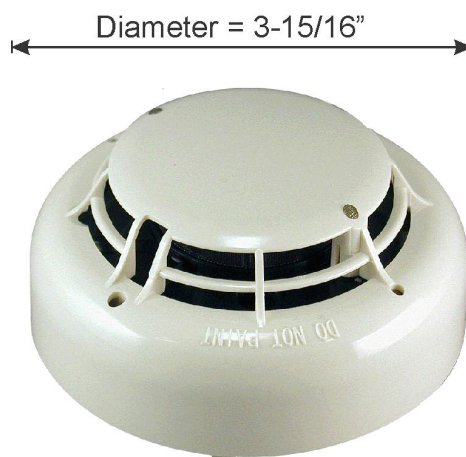
The calibration of the detector shall be capable of being selected and measured by the control panel without the need for external test apparatus.

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

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



Model SD505-6AB Detector Base
(front view)



Height = 2 inches,
including base

Model SD505-PHOTO Detector Head
(front view)



This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact Silent Knight 12 Clintonville Road, Northford, CT 06472-1610 Phone: (800) 328-0103, Fax: (203) 484-7118. www.silentknight.com

5815XL

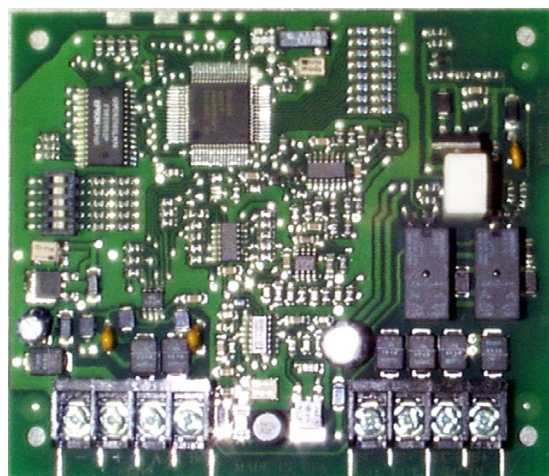
Signaling Line Circuit Expander

The 5815XL is a signaling line circuit (SLC) expander for use with the 5820XL, 5820XL-EVS, 6820 or 6820EVS addressable fire alarm control panel (FACP). Use the 5815XL to add more Hochiki® SD SLC devices of the same protocol to the control panel.

All functionality of the built-in SLC is provided with the 5815XL. Three 5815XLs can be added to an 5820XL or 5820XL-EVS IntelliKnight system for a total of 396 SK detectors and 396 SK modules or 508 SD addressable devices per system.

On the 6820 or 6820EVS the number of 5815XLs is limited by the maximum number of SBUS devices. Each 5815XL let you add 127 SD addressable devices.

The 5815XL communicates with the FACP via an RS 485 system bus. A green LED on the 5815XL board blinks to indicate good communication. If an addressable device on a 5815XL fails, the loop communicates the failure to the panel and continues to operate normally.



5815XL

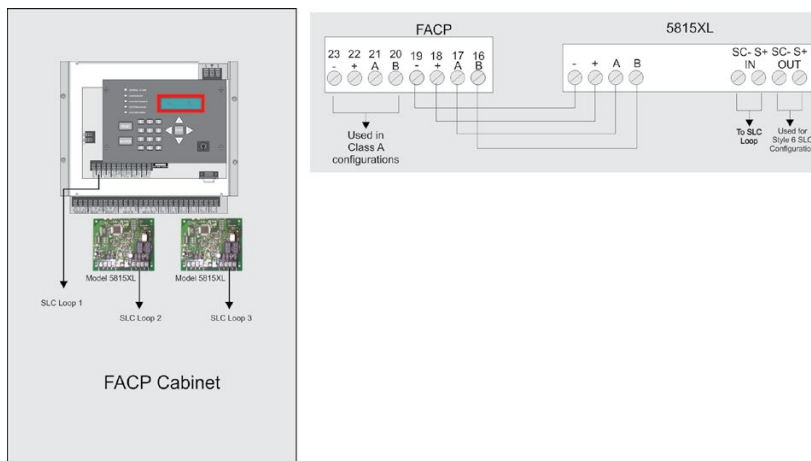
INSTALLATION

The 5815XL can be mounted on standoffs located in the 5820XL, 5820XL-EVS, 6820, 6820EVS, 5895XL cabinet or in the 5815RMK remote mounting kit. All control panel mounting options allow you to install two 5815XLs per cabinet.

FEATURES & BENEFITS

- Adds 99 SK modules and 99 SK detectors or 127 SD addressable devices to an 5820XL/EVS IntelliKnight system
- Three 5815XLs per system
- 5815XL SLCs have same functionality as the 5820XL/EVS, including Style 6 (Class A) configuration
- Communicates with the IntelliKnight panel via RS 485 system bus
- LED indicates good communication
- UL 864 listed, complies with NFPA 72 and 101
- Communicates on most standard wiring systems (ideal for retrofits)
- CSFM approved
- MEA
- FM approved

5815XL Technical Specifications



PHYSICAL

Dimensions: 4.2" H (10.7 cm): 4.8" W (12.2 cm)

Shipping Weight: 5.6 oz (159 g)

ENVIRONMENTAL

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

Humidity: 10% - 93% non-condensing)

ELECTRICAL

Operating Voltage: 24 VDC

Current Draw: 55 mA minimum - 125mA max.

ORDERING INFORMATION

5815XL: SLC Loop Expander

ACCESSORIES

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

AGENCY LISTINGS AND APPROVALS

NFPA 13, NFPA 15, NFPA 16, NFPA 70, &

NFPA 72: Central Station; Remote Signalling; Local Protective Signalling Systems; Auxiliary Protected Premises Unit; & Water Deluge Releasing Service. Suitable for automatic, manual, waterflow, sprinkler supervisory (DACT non-coded) signalling services.

- UL Listed
- CSFM 7300-0559:123;
- MEA 429-92-E Vol. VI
- FM Approved
- OSHPD (CA) OSP-0065-10

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

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