

5600 Series Heat Detectors



6-6581 Kitimat Road Mississauga, Ontario, L5N 3T5
PH: 905.812.0767 / FAX: 905.812.0771 / TOLL: 800.SENSOR2 / WEB: www.systemsensor.ca

Models Available

Single-circuit Models

5601A	135°F Fixed Temperature / Rate-of-Rise
5602A	194°F Fixed Temperature / Rate-of-Rise
5603A	135°F Fixed Temperature
5604A	194°F Fixed Temperature

Dual-circuit Models

5621A	135°F Fixed Temperature / Rate-of-Rise
5622A	194°F Fixed Temperature / Rate-of-Rise
5623A	135°F Fixed Temperature
5624A	194°F Fixed Temperature



Product Overview

Multiple configurations available to satisfy a broad range of installations:

- Single- and dual-circuit models
- Fixed temp and combination fixed- temp/rate-of-rise
- 135° F or 194° F ratings.

Easy to use terminal screws that provide a more positive wiring connection

A broader range of back box mounting options:

- Single gang
- 3.5" and 4" Octagonal
- 4" square with square to round plaster ring

Reversible mounting bracket for flush and surface mount installations

System Sensor's 5600 series heat detectors offer a low-cost means for property protection against fire, and for non-life-safety installations where smoke detectors are inappropriate.

Multiple configurations. The 5600 series offers a full-line of configurations to accommodate a broad range of applications. Both single- and dual-circuit models are offered, each available for low- and high-temperature ratings with either fixed temperature or combination fixed temperature/rate-of-rise (ROR) activation. The ROR element of the fixed/ROR models is restorable, to accommodate field-testing the unit.

Installation flexibility. To satisfy a variety of installations, the 5600 series easily mounts to single-gang and octagonal back boxes. These models also accommodate four-square back boxes, when used with a square to round plaster ring. The mounting bracket is reversible to allow for flush- and surface-mount back box installations.

Visual identification. The 5600 series provides clear markings on the exterior of the unit to ensure that the proper detector is being used. The 5600 series also provides a post-activation indicator in the form of a collector. Once the detector has been activated, the collector drops from the unit, to easily identify the specific unit in alarm.



Engineering Specification

Heat detector shall be a System Sensor 5600 series model number _____, listed to ULC for Heat Detectors for Fire Protective Signaling Systems. The detector shall be either a single-circuit or a dual-circuit type, normally open. The detector shall be rated for activation at either 135°F (57°C) or 194°F (90°C), and shall activate by means of a fixed temperature thermal sensor, or a combination fixed temperature/rate-of-rise thermal sensor. The rate-of-rise element shall be activated by a rapid rise in temperature, approximately 15°F (8.3°C) per minute. The detector shall include a reversible mounting bracket for mounting to 3½-inch and 4-inch octagonal, single gang, and 4-inch square back boxes with a square to round plaster ring. Wiring connections shall be made by means of SEMS screws that shall accommodate 14-22AWG wire. The detector shall contain markings on the exterior of the housing to identify its temperature rating and activation method. The rate-of-rise element of combination fixed temperature/rate-of-rise models shall be restorable, to allow for field-testing. The detectors shall include an external collector that shall drop upon activation to identify the unit in alarm.

Electrical Specifications

Operating Voltage / Contact Ratings

6 - 125 VAC / 3A
6 - 28 VDC / 1A
125 VDC / 0.3A
250 VDC / 0.1A

Physical Specifications

Maximum Installation Temperature

5601A, 5603A, 5621A, and 5623A: 100°F (38°C)
5602A, 5604A, 5622A, and 5624A: 150°F (65.6°C)

Operating Humidity Range

5 to 95% RH non-condensing

Dimensions with mounting bracket

Diameter: 4.57 inches (11.6cm)
Height: 1.69 inches (4.3cm)

Alarm Temperature

5601A, 5603A, 5621A, and 5623A: 135°F (57°C)
5602A, 5604A, 5622A, and 5624A: 194°F (90°C)

Input Terminals

14–22 AWG

Weight

6 oz. (170 grams)

Rate-of-Rise Threshold

15°F (8.3°C) rise per minute
(models 5601A, 5602A, 5621A, and 5622A only)

Mounting

3½-inch octagonal back box
4-inch octagonal back box
Single gang back box
4-inch square back box with a square to round plaster ring

Ordering Information

Model	Circuit	Temperature Rating	Activation	Protected Spacing – 10 Foot Ceiling *
5601A	Single	135°F (57°C)	Fixed Temperature / Rate-of-Rise	50 feet x 50 feet (15.24m x 15.2m)
5602A	Single	194°F (90°C)	Fixed Temperature / Rate-of-Rise	50 feet x 50 feet (15.24m x 15.2m)
5603A	Single	135°F (57°C)	Fixed Temperature	25 feet x 25 feet (7.62m x 7.62m)
5604A	Single	194°F (90°C)	Fixed Temperature	25 feet x 25 feet (7.62m x 7.62m)
5621A	Dual	135°F (57°C)	Fixed Temperature / Rate-of-Rise	50 feet x 50 feet (15.24m x 15.2m)
5622A	Dual	194°F (90°C)	Fixed Temperature / Rate-of-Rise	50 feet x 50 feet (15.24m x 15.2m)
5623A	Dual	135°F (57°C)	Fixed Temperature	25 feet x 25 feet (7.62m x 7.62m)
5624A	Dual	194°F (90°C)	Fixed Temperature	25 feet x 25 feet (7.62m x 7.62m)

*NOTE: Refer to ULC guidelines for spacing reductions when ceiling heights exceed 10 feet.

System Sensor Sales and Service

System Sensor Canada

6581 Kitimat Rd. Unit # 6
Mississauga, ON L5N 3T5
Ph: 800-SENSOR2
Fx: 905-812-0771

www.systemsensor.ca

System Sensor Headquarters USA

Ph: 630-377-6674
Fx: 630-377-6495

System Sensor in Europe

Ph: 44.1403.276500
Fx: 44.1403.276501

System Sensor in China

Ph: 86.29.524.6253
Fx: 86.29.524.6259

System Sensor in Singapore

Ph: 65.273.2230
Fx: 65.273.2610

System Sensor– Far East

Ph: 852.21919003
Fx: 852.27366580

System Sensor– Latin America

Ph: 562.214.9359
Fx: 562.214.2987