# 5600 Series Mechanical Heat Detectors



#### **Models Available**

## **Single-circuit Models**

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

5603 135°F Fixed Temperature 5604 194°F Fixed Temperature

#### **Dual-circuit Models**

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

5623 135°F Fixed Temperature 5624 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.

Simple to read alphanumeric text on the exterior of the detector indicates activation method and temperture rating

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





199-03-E





System Sensor's 5600 series mechanical 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. Alphanumeric characters identify the activation method, as well as the temperature rating, in degrees Fahrenheit and Celsius. Fixed temperature models are identified "FX", while combination fixed/rate-of-rise units are marked "FX/ROR". 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**

Mechanical heat detector shall be a System Sensor 5600 series model number \_\_\_\_\_\_\_\_, listed to Underwriters Laboratories UL 521 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 alphanumeric 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 5601, 5603, 5621, and 5623: 100°F (38°C) 5602, 5604, 5622, and 5624: 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

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

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

<sup>\*</sup>NOTE: Refer to NFPA72 guidelines for spacing reductions when ceiling heights exceed 10 feet.

# **System Sensor Sales and Service**

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