



5600 Series Mechanical Heat Detectors



Description:

The 5600 series offers a full-line of configurations to accommodate a broad range of applications. Both single- and dual-circuit models are 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.

To satisfy a variety of installation needs, the 5600 series easily mounts to single-gang and octagonal back boxes. And these models accommodate four-square back boxes, when used with a square to round plaster ring. The reversible mounting bracket permits both flush- and surface-mount back box installations.

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 Fahrenheit and Celsius degrees. 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. When the detector is activated, the collector drops from the unit, making it easy to identify the unit in alarm.

Operation:

The fixed temperature element reacts to heat by re-ponding to a specific temperature setting (135°F or 194°F). The detection method is based on the spring action of a metal contact, held to the metal chamber by a fusible alloy. When the temperature reaches the alloy's melting point, the metal contact will depress the diaphragm, causing the electrical contact to close the circuit. The circular external heat collector is released from the detector to visually indicate that the detector has been activated.

NOTE: 5600 series Fixed Temperature models (5603, 5604, 5623, and 5624) are non-restorable.



5600 Series

Features:

- **Multiple configurations for installations:**
 - Single- and dual-circuit models
 - Fixed temp and combination fixed- temp/rate-of-rise 135°F or 194°F ratings.
- **Plain housing for residential installations (Model 5601P)**
- **Easy-to-use terminal screws**
- **A broad range of back box mounting options:**
 - Single gang
 - 3.5" and 4" Octagonal
 - 4" square with square to round plaster ring
- **Reversible mounting bracket**

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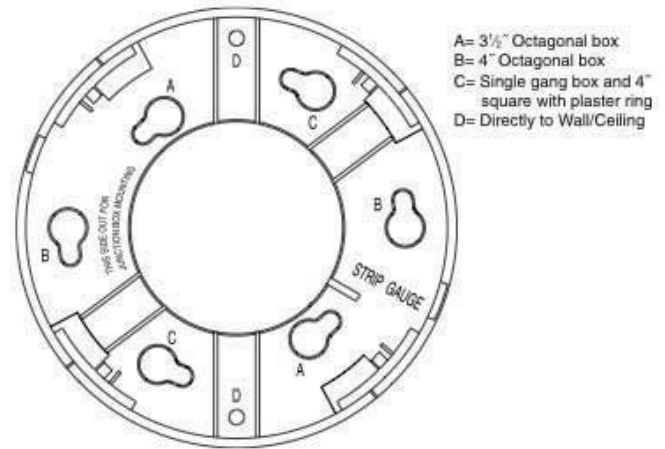
Physical/Operating Specifications:

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)
Weight:	6 oz. (170 grams)
Rate-of-Rise Threshold:	15°F (8.3°C) rise per minute (models 5601P, 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:

Model No.	Description
Single-circuit Models	
5601	135°F Fixed Temperature / RoR
5602	194°F Fixed Temperature / RoR
5603	135°F Fixed Temperature
5604	194°F Fixed Temperature
Dual-circuit Models	
5621	135°F Fixed Temperature / RoR
5622	194°F Fixed Temperature / RoR
5623	135°F Fixed Temperature
5624	194°F Fixed Temperature
S5600	Data Specification Sheet

Figure 1. Bracket Mounting Locations:



Architectural/Engineering Specifications:

Mechanical heat detector shall be a 5600 series model number _____, listed to Underwriters Laboratories UL 521 for Heat Detectors for Fire Protective Signaling Systems and Factory Mutual Approved. 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.

Specifications are provided for information only and are believed to be accurate. However, no responsibility is assumed by King-Fisher Company inc., for their use. Specifications subject to change without notice.