



Product

Heat Detector

Architectural/Engineering Specifications

Mechanical heat detector shall be a System Sensor 5600 series model number 5601P, 5603, 5621, 5623, 5602, 5604, 5622, and 5624, 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.

Physical/Operating Specifications

The Maximum Installation Temperature for models 5601P, 5603, 5621, and 5623 shall be 100°F (38°C). The Maximum Installation Temperature for models 5602, 5604, 5622, and 5624 shall be 150°F (65.6°C). The Operating Humidity Range shall be 5 to 95% RH non-condensing. Approximate detector weight shall be 6 oz. (170 grams).

The heat detector dimensions with mounting bracket shall be; Diameter: 4.57 inches (11.6cm) and Height: 1.69 inches (4.3cm). The Alarm Temperature for models 5601P, 5603, 5621, and 5623 shall be 135°F (57°C). The Alarm Temperature for models 5602, 5604, 5622, and 5624 shall be 194°F (90°C). The Rate-of-Rise Threshold shall be 15°F (8.3°C) rise per minute (models 5601P, 5602, 5621, and 5622 only).

Mounting options for the 5601P, 5603, 5621, 5623, 5602, 5604, 5622, and 5624 heat detectors include: 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.

Electrical Specifications

The Operating Voltage / Contact Ratings shall be 6–125VAC / 3A, 6–28VDC / 1A, 125VDC / 0.3A, 250VDC / 0.1A. The Input Terminals shall be 14–22 AWG.