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Statitrol ionization Fire Detector Model A-403

Product information

Statitrol Corporation

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The Statitrol Model A-403 is an ionization type fire detector approved for use with Model A-404 Control Panel Assembly.

The principle of ionization of air in a small chamber provides instant and reliable means of detecting the presence of combustion before there is either flame, heat or visible smoke. Because of this capability of early fire detection, a new level of fire protection is made possible through the use of the ionization principle.

Location of ceiling detectors should be made only after a careful survey of the space to be protected with proper consideration for the variables of velocities, temperatures and the physical contours of the ceilings. The Statitrol Model A-403 has been listed by Underwriters' Laboratories for a spacing of 60 feet center to center and not more than 30 feet from a wall surface. This has been determined to be a maximum spacing requirement when applied to a ceiling less than 16 feet in height, without a flow of air. The method of rating an ionization detector has no relationship to the method of rating heat detectors or sprinkler devices.

Good fire protection engineering will dictate that detectors should be applied to areas sometimes much smaller than the maximum listed rating of 3600 square feet.
Smoke detectors as shown on the plans shall be Statitrol Model A-403 or equal. The term smoke detector shall be interpreted to mean a device incorporating an ionization principle and sensitive to smoke as well as gaseous products of combustion which may be invisible. The detector shall be approved by Underwriters' Laboratories, Inc.

The detector shall be ceiling mounted in a flush manner in accordance with the manufacturer's instructions.

The sensitivity of the detector shall be fixed at the specific level as tested by Underwriters' Laboratories, Inc.

Not more than two ceiling detectors shall be connected to one Model A-404 control panel assembly. Detectors shall be connected in parallel with four-wire, No. 18 AWG thermal plastic fixture wire with 600 volt insulation or equal, enclosed in conduit.

Final system test shall be conducted by a representative of the authorized distributor. The distributor shall instruct the owner's representative in the operation of the equipment and provide him with complete service instructions.

Ordering Information—Model A-403
Shipping Weight 1 lb.—Standard Flush Mounting
2 lb.—With cast surface mounting box (specify with order)
Voltage 20 volts, DC, regulated from A-404 panel

NOTE: 1. Detectors for flush mounting furnished with 4 1/2" x 4 1/2" insulator adapter ring.
2. Detectors for surface mounting furnished with insulator adapter ring, 4 1/2" x 4 1/2" x 2" surface mounting box and four nylon mounting screws.

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