




Conventional Detection Devices

Photoelectric Smoke Detector Model OP121

ARCHITECT AND ENGINEER SPECIFICATIONS

- Magnet-test feature
- Incorporates one (1) state-of-the-art chamber for rapid, uniform response to alarm criteria (i.e. – smoke)
- Automatic sensitivity test without the need for a special tester (per NFPA 72)
- Available optional relay base
- Available optional sounder base, providing an alert and evacuation signal
-  UL 268 Listed [for open-area protection],
 UL 268A Listed [for direct in-duct use],
 ULC 529 Listed;
FM, CSFM Approved



Product Overview

Model OP121 from Siemens — Fire Safety is a photoelectric smoke detector with microprocessor-controlled, self-diagnostic circuitry, eliminating the need for burdensome sensitivity test equipment.

Model OP121 also comes with a new magnet-test feature. The magnet-test feature allows installers and test personnel to prove the integrity of the wiring and proper connection to the fire alarm control panel (FACP).

The auto-sensitivity feature for Model OP121 stems from the internal, self-monitoring circuitry, and provides dynamic verification of sensitivity and / or required maintenance. The auto-sensitivity feature is displayed by Siemens Fire Safety's unique (3) three-color light-emitting diode (LED), provided locally on the detector — and optionally with the various remote LED indicators.

Ratings

Environmental:

Operating Temperature:	32°F (0°C) – 120°F (49°C)
Humidity:	Up to 95%, non condensing
Air Pressure:	No effect
Air Velocity:	0 – 4000 feet / minute [for open-area protection and direct, in-duct application]

Electrical:

Voltage:	16 – 27 VDC
Ripple:	3V (peak to peak)
Supervisory Current:	100µA
Alarm Current:	30 – 50mA
Start-Up Time:	30 seconds, max.

Detector Sensitivity:

Sensitivity Range:	1.71 – 2.8% / ft. (nominal 2.3% / ft.)
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