Conventional Detection Devices
Photoelectric Smoke Detector
Model OP121

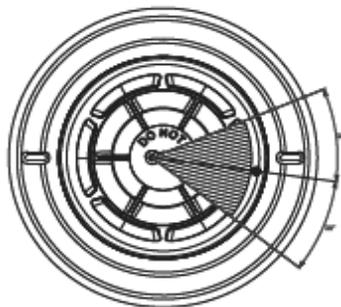## Architect & Engineer Specifications

☐ **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 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.

Model TM121
Test Magnet Placement

Model OP121

Environmental Ratings

OPERATING TEMPERATURE:	32°F (0°C) — 120°F (49°C)
HUMIDITY:	0 – 95% (non-condensing)
`AIR PRESSURE.:	No effect
AIR VELOCITY:	0 — 4000 feet / minute [for open-area protection and direct, in-duct application]

Electrical Ratings

VOLTAGE	16VDC – 27VDC
RIPPLE:	3V (peak to peak)
SUPERVISORY CURRENT	500µA
ALARM CURRENT:	50mA
START-UP TIME:	30 seconds, max.

Detector Sensitivity

SENSITIVITY RANGE:	1.71 — 2.8% / ft. (nominal 2.3% / ft.)

LED Indicator Operation

FLASH COLOR	CONDITION	FLASH INTERVAL (in seconds)
GREEN	Normal supervisory operation.	10
YELLOW	Detector is in trouble and needs replacement.	5
RED	Alarm condition.	2.5
NO FLASH	Detector is not powered, or detector requires repair.	--

Details for Ordering

MODEL OR TYPE	PART NUMBER	PRODUCT
OP121	S54372-F1-A1	Photoelectric Smoke Detector
OH121	S54372-F2-A1	Photo Thermal Smoke Detector
HI121	S54372-F3-A1	Thermal Detector
TM121	S54370-S12-A1	Test Magnet
FDBZ492	S54319-B22-A1	Air-Duct Housing
FDBZ492-R	S54319-B24-A1	Air-Duct Housing with Relay
FDBZ492-PR	S54319-B25-A1	Self-Contained Air-Duct Housing with Power Supply and Relay
FDBZ-WP	S54319-B26-A1	Compatible Air-Duct Weatherproof Housing
FDBZ-RTL	S54319-B27-A1	Remote Test Lamp
DB-ADPT	500-094187	Adapter for Model PE-11 to Model DB-3 Base
DB-11	500-094151	Low-Profile Surface-Mount Base
DB-11E	500-094151E	Smaller-Diameter Detector Base
LK-11	500-695350	Model PE-11 Detector-Locking Kit
RLC-11	500-694625	Remote LED Ceiling Mount Detector, Red
RLW-11	500-694626	Remote LED Wall Mount Detector, Red
RSAC-11	500-694935	Remote, Multi-Color LED: Ceiling Mount
RSAW-11	500-695101	Remote, Multi-Color LED: Wall Mount

See: www.STI-USA.com for further details on ordering Model STI-9604

In Canada order:

MODEL OR TYPE	PART NUMBER	PRODUCT
DB-11C	500-095687	Detector Mounting Base, ULC Listed

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