

120V AC Photoelectric Smoke Alarm

Part# 21006371

Model PE120

Photoelectric Sensor

Advanced photoelectric sensor may detect visible particles (associated with smoldering fires) sooner than ionization alarms

9V Battery Backup

Provides continuous protection even during power outages

Test Button

Tests unit's electronic circuitry, horn and battery function

Red LED

Indicates that the smoke alarm is operating properly and alarm condition

Green LED

Indicates the presence of AC power



Description

The Kidde PE120 is a 120VAC powered photoelectric smoke alarm with 9V battery back up. This advanced smoke alarm has the ability to function as a stand-alone unit or in an interconnected system. The Kidde PE120 includes a test button, quick-connect power harness and offers a 10-year limited warranty.

This alarm uses photoelectric sensing technology. Photoelectric sensing alarms may detect visible particles (associated with smoldering fires) sooner than ionization alarms. Ionization sensing alarms may detect invisible fire particles (associated with flaming fires) sooner than photoelectric alarms.

Kidde strongly recommends that both ionization and photoelectric smoke alarms be installed to help insure maximum detection of the various types of fire that can occur within the home.

The Kidde PE120 120VAC includes a 9V battery backup, providing continuous protection even during a power failure and includes a quick connect power harness making installation simple.

Features and Benefits

- **Photoelectric Sensor** – Advanced photoelectric sensor may detect visible particles (associated with smoldering fires) sooner than ionization alarms
- **Battery Backup (9V Battery Included)** – Provides continuous protection even during power outages.
- **Test Button** – Tests unit's electronic circuitry, horn and battery function.
- **Quick Connect Power Harness** – Makes installation fast and easy.
- **Dust Cover** – Protects sensor during construction.
- **Battery Pull Tab** – Eliminates battery installation time and keeps battery fresh.
- **Red LED** – Indicates that the smoke alarm is operating properly and alarm condition.
- **Green LED** – Indicates the presence of AC power.



Architectural and Engineering Specifications

The smoke alarm shall be Kidde model PE120 or approved equal. It shall be powered by a 120VAC, 60Hz, 80mA source along with a 9V battery back up. The unit shall incorporate a photoelectric sensor with nominal sensitivity of 2.06%/ft. The temperature operation range shall be between 40°F and 100°F (4°C and 38°C) and the humidity operation range shall be 5% - 95% relative humidity.

The smoke alarm can be installed on any standard single gang electrical box, up to a 4" octagon junction box. The electrical connection (to the alarm) shall be made with a plug-in connector. A maximum of 24 Kidde devices can be interconnected in a multiple station arrangement. The interconnect system must not exceed the NFPA (National Fire Protection Association) limit of 18 initiating devices, of which 12 can be smoke alarms. With 18 initiation devices (smoke, heat, CO, etc.), interconnected, it is still possible to interconnect 6 strobe lights and or relay modules. The unit shall provide optional tamper resistance that deters removal of the unit from the wall or ceiling.

The alarm shall include a test button that will electronically simulate the presence of smoke and cause the unit to go into alarm. This sequence tests the unit's electronics, battery and horn to ensure proper operation.

The unit shall include a piezoelectric horn that is rated at 85dB at 10 feet. The unit shall also include a low battery warning utilizing a brief alarm chirp every 30-40 seconds for a minimum of seven (7) days.

The unit shall incorporate one red LED to indicate the alarm's current status and mode of operation. The red LED will indicate one of two conditions:

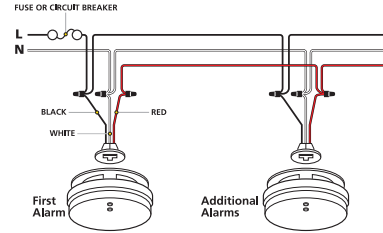
Standby Condition: The red LED will flash every 30-40 seconds to indicate that the smoke alarm is operating properly.

Alarm Condition: When the alarm senses products of combustion and goes into alarm, the red LED will flash rapidly (one flash per second). The rapid flashing LED and pulsating alarm will continue until the air is cleared.

The unit shall incorporate one green LED to indicate the presence of AC power. The unit shall at a minimum meet the requirements of UL217, NFPA72, (chapter 11 2002 edition), The State of California Fire Marshall, NFPA 101 (One and two family dwellings) Federal Housing Authority (FHA), Housing and Urban Development (HUD). It shall also include a 10-year manufacture's limited warranty.

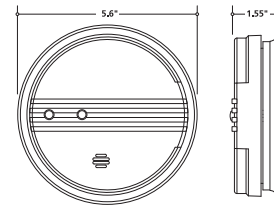
Installation of Smoke Alarm

The smoke alarm should be installed to comply with all local codes having jurisdiction in your area, Article 760 of the National Electric Code, and NFPA 72. Make certain all alarms are wired to a single, continuous (non-switched) power line, which is not protected by a ground fault interrupter. A maximum of 1000 ft. of wire can be used in the interconnect system. Use standard UL listed household wire (18 gauge or larger as required by local codes).



Technical Specifications

Model:	PE120
UPC:	0-47871-40399-8
Power Source:	120VAC
Sensor:	Photoelectric
Audio Alarm:	85dB at 10ft
Temperature Range:	40°F (4.4°C) to 100°F (37.8°C)
Humidity Range:	5%-95% relative humidity (RH)
Size:	5.6" in diameter x 1.55" depth
Weight:	1lb
Interconnects:	Up to 24 Kidde devices
LED:	Green, receiving ac power Red, alarm mode
Warranty:	10 year limited



Ordering Information

Ordering Number	UPC	I2F5	Pack Quantity	Dimensions (w x d x h inches)	Weight	Case/Skid	Layers/Skid	Skid Weight
N/A	0-47871-40399-8	N/A	individual*	5.75 x 1.5 x 5.75	0.5 lbs	N/A	N/A	N/A
21006371	0-47871-40399-8	100-47871-40399-5	Cut Case (6 units)	6.5 x 13.25 x 6	3 lbs	147	7	441 lbs

*Not for sale by individual unit



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