OPTICAL SMOKE DETECTOR 12V WITH RELAY

AE/DOM-OP12

Description

The smoke detectors for residential use are designed to detect the smoke that reaches the room of the same. They do not detect gas, heat, or flame. The smoke detector is designed to give an early warning of developing fires, providing audible alarms from the built-in acoustic alarm.

Installation locations

Smoke detectors must be installed in accordance with NFPA 74 (National Fire Protection Association, Batterymarch Park, Quincy, MA 02169). For full coverage of residential units, smoke detectors must be installed in all bedrooms, living rooms, storage areas, basements, and attics in each family unit. The minimum coverage is one detector on each floor and one in each sleeping area.

Here are some tips that you may find helpful:

• Install a smoke detector in the hallway outside the sleeping area, as shown in Figure 1. Two detectors are required in homes with two bedroom areas, as shown in Figure 2.

• Install a smoke detector on each floor of the home, as shown in Figure 3.

• Install a minimum of two detectors in each home.

• Install a smoke detector inside each bedroom.

• Install a smoke detector in the hallway if it is more than 12 meters long.

• Install detectors in the basement at the bottom of the stairwell.

• Install detectors on the second floor at the top of the stairwell from the first to the second floor.

Make sure there are no doors or other obstructions blocking the smoke from the detector.

• Install additional detectors in living room, dining room, living room, loft, storage rooms and offices.

• Install smoke detectors as close to the center of the ceiling as possible. If this is not possible, install it more than 10 cm away from any wall or corner, as shown in Figure 4.

• If ceiling mounting is not possible, and your national laws and local regulations allow wall mounting, place the detectors 10 to 15 cm away from the ceiling, see also Figure 4.

• If any of the rooms have sloping, gabled, or peaked ceilings, try mounting the detectors 1 meter measured horizontally from the highest point of the ceiling, as shown in Figure 5.

FIG. 1

FIG. 2

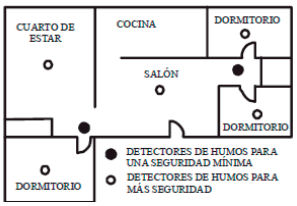


FIG. 3

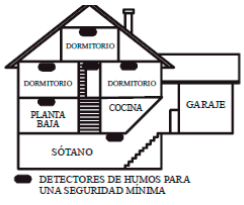


FIG. 4

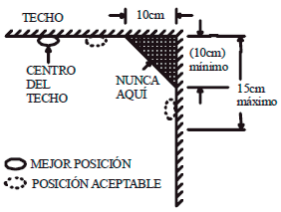
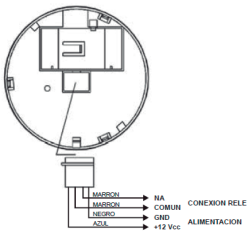


FIG. 5



Each detector is supplied with a connector with a blue wire, a black wire and two brown wires. Connect the blue wire to the 12Vdc positive. Connect the black cable to the negative power supply. The brown wires are the connection to the NO output relay: normally open.

Connect the connector at the rear of the detector as shown in the figure above. This connector can only be connected in one position. Make sure it is fixed correctly.

ATTENTION: Do not connect the 12 Vdc power cables to the relay cables, brown cables, as the detector may be damaged

TECHNICAL CHARACTERISTICS	
smoke sensitivity:	1.1dB / m
Battery life:	At least 18 months under normal conditions and alkaline battery.
Low battery indicator:	30-day warning signal.
Working temperature:	4ºC to 45ºC
Relative humidity:	10 to 85% RH, non-condensing.
Sound intensity:	85dB / 3m
Power:	9V battery
Relay:	Normally open at rest.
Control voltage:	400Vac or dc
Maximum switching current:	130mA
Isolation:	1500 VCArms