

# Photoelectric Smoke Detector



**CL-180**

## Description

- The Detector is Photoelectric Smoke Detector. It was designed on theory in which the light emits diffusively to various directions when reflecting onto the smoke cell.
- Soon as the detector sensors the desired density of the smoke, after several times of confirmation as a flame smoke, it then transfers into signal and transmits to signal receiver or control disc to change the fire alarm or activate the equipment of fire resistance gate and smoke expellant value.

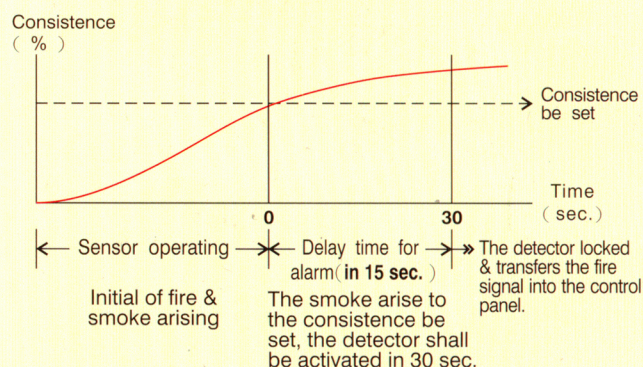
## Features

- For security system.
- Two-wire low current design 16 ~ 32 VDC range
- Base options for supplementary relay, and / or remote indicator, 2-wire and 4-wire applications.
- Signal source : Highly reliable LED light sources and photodiode sensors are used.
- The integrated wiring system was designed since 1990.

## Specifications

- Input Voltage Range ..... 16 V ~ 32 VDC ( DC24V )
- Alarm Current ..... 60 mA (MAX)
- Standby Current : 60  $\mu$ A average, 90  $\mu$ A peak @ 24VDC  
40  $\mu$ A average, 60  $\mu$ A peak @ 16VDC
- Environmental Temperature ..... 32 °F ~ 140 °F
- Relative Humidity ..... 0 ~ 95%RH
- Sensitivity ..... Nominally set at 10 % / 50 cm
- Aux. Relay Rating ..... 0.5A @ 120 VAC / 1A @ 24 VDC

### \* Detector operating chart



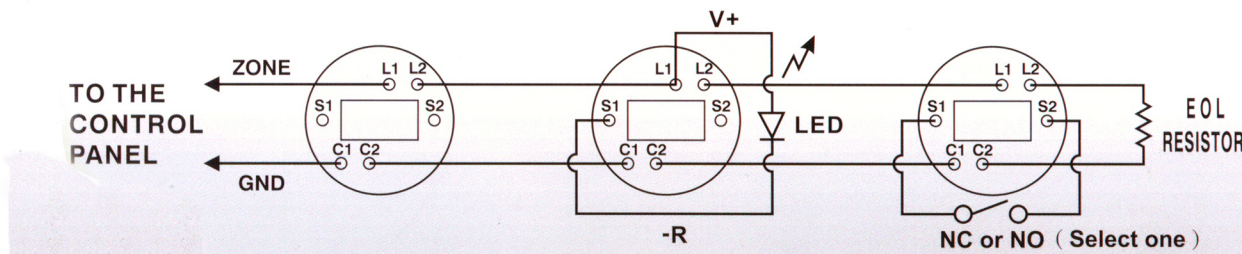
### EFFECTIVE WARNING AREA

| Height above the ground | Below 4 M          | 4 ~ 8 M           | 8 ~ 15 M          |
|-------------------------|--------------------|-------------------|-------------------|
| Building                | 100 M <sup>2</sup> | 50 M <sup>2</sup> | 30 M <sup>2</sup> |

### DETECTOR STRUCTURE

| Appearance | Weight | Diameter | Height |
|------------|--------|----------|--------|
| Ivory      | 170 g  | 10.6 cm  | 5 cm   |

## Base Wiring Information



■ **NORMAL MODE**

■ **REMOTE INDICATOR**

■ **AUXILIARY CONTACTS**