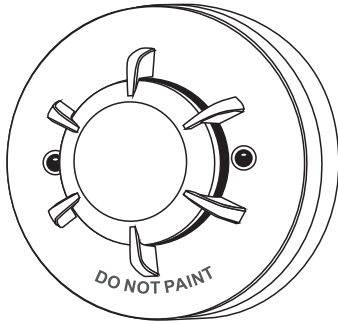


## PRODUCT OUTLINE



## INTRODUCTION

This product is a photoelectric smoke detector with options of 2-wire model and 4-wire model. The smoke chamber using the principle of smoke particles reflecting infrared lights can accurately detect early smoke of a fire. The smoke detector will go into alarm when signal level exceeds the alarm threshold and send the alarm signal to the control panel. During an alarm, the LED will constantly bright.

## FEATURES

- Strong adaptability for circumstance
- SMT design, high stability
- Power supply non-polarized input
- Two visible LEDs flash in standby
- 360° field viewing angle of the visual alarm LEDs
- Remote LED indicator output (2-wire)
- Metal shield in chamber, anti-electromagnetic interference
- Alarm eliminating time: no more than 1 second
- Execute standard: IP23D, EN 60529, EN54-7:2000+A1:2002 +A2:2006, EN50130-4EN61000-6-3.

## SPECIFICATIONS

PRODUCT CATEGORY	HM-613PC-2 2-wire	HM-613PC-4 4-wire
OPERATING VOLTAGE	DC 10V~30V	
STANDBY CURRENT	20uA	30-50uA
ALARM CURRENT	35mA@DC12V 83mA@DC 24V	19mA(relay N.O.) 9mA(relay N.C.)
ALARM INDICATION	RED LED ON	
TEMPERATURE RANGE	-20℃ ~ +60℃	
HUMIDITY	0%~95%RH(NO CONDENSATION)	
ALARM OUTPUT	REMOTE LED	RELAY OUTPUT
CONTACT RATING	N/A	0.1A@DC28V
STANDARD	EN54-7:2000 + A1:2002 + A2:2006 / UL268	
DIMENSION	100 mm diameter*48mm deep	

## INSTALLATION

In general, install smoke detectors on every floor, in every sleeping area, and in every bedroom. Refer to appropriate national standards for installation recommendations.

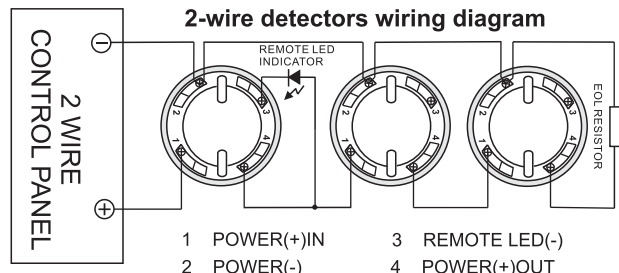
- keep the distance between the detector and wall > 0.5m. Make sure no obstruction within the radius of 0.5m from the detector, the distance between the detectors < 15m, and the distance between the detector and corner must be less than half of the distance between the detectors.
- Horizontally install the detector. If have to be installed

slantingly, keep the angle less than 45°.

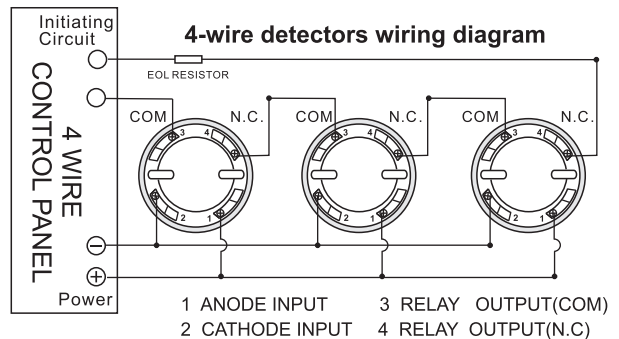
- When installing on the ceiling, place the detectors as close to the center as possible.
- Install the detectors base solidly. The detector can not be installed in worse environments, e.g. extreme cold, hot, dusty, humid areas. The dust cover protects the unit when not in service. Remove dust cover before use.

## WIRING

Refer to the wiring diagrams in this manual and those provided in the installation manual of the alarm control panel being used with the detector. Before connecting the detector, prepare the wires from the electrical box for connection. Do not use frayed or bent wire.



Base terminals "1" and "2" for DC power input, non-polarized. "4" for DC power anode or cathode output. "3" for remote indicator cathode. When remote indicator is used, "1" must be connected with the positive power input line.



Base terminals "1" and "2" for DC power input, non-polarized. "4" for DC power anode or cathode output. "3" for relay output COM. "4" for relay output N.C. or N.O..

## MAINTENANCE

The smoke detector is designed to require minimum maintenance. If the case becomes dusty, vacuum with your brush attachment. A can of compressed air may also be used. If the case is greasy, wipe the case gently with a soft cloth slightly dampened with soapy water. Relocate the unit if it sounds frequent unwanted alarms. Never disassemble the smoke detector and paint the unit. Paint may prevent smoke from entering the unit.

## NOTICE

- A simulation fire alarm is suggested every 6 months to test if the detectors are working properly. And it's better to test the entire alarm system to verify the operation of all system functions.
- The smoke detectors can reduce accidents happening, but can not guarantee a hundred percent safety. Besides proper use of the detector, for safety concern, pay attention to build up safety consciousness and take preventive measures in daily life.