4-Wire Smoke Detector with Relay Output

● Model：YT142

Compatible with all security alarm system

Dual LEDs
Two LEDs blink standby, provide 360° visibility

Unique optical sensing chamber
Engineered to sense smoke by a wide range of combustion sources.

Relay Contact Output
Alarm relay contact output can be adjusted(default setting is NO)

Unpolarized wire and wide voltage input
To prevent the likelihood of wiring errors

General Description

The detectors are photo-electronic detector uses a state of-the-art optical sensing chamber. This detector is designed to provide open area protection and to be used with most security alarm control panel.
Two LEDs on each detector provide local 360° visible alarm indication. They flash every six seconds indicating that power is applied and the detector is working properly. The LEDs latch on in alarm. The detector can be reset only by a momentary power interruption.
The detector that initiated the alarm condition will have its red LED and relays latched until reset by panel.

Features and Benefits

● Compatible with all the security alarm system
● Alarm Relay Output(NO/NC can be adjustable)
● Unpolarized wire input
● Wide range of operating voltages(9V~28VDC)
● Unique optical sensing chamber
● Built in microprocessor intelligent software
● Two LEDs blink standby, provide 360° visibility
● Insect-resistant Screening
● Twist-on mounting base with tamper lock
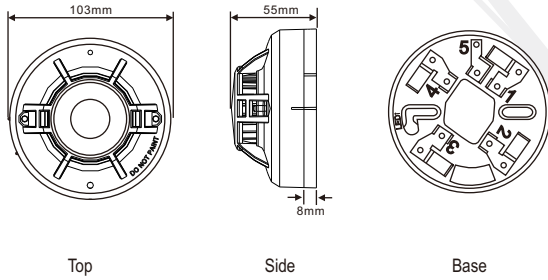● Drift compensation and smoothing algorithms

CE   RoHS

Installation Guidelines

All wiring must be installed in compliance with the National Electrical Code, applicable state and local codes, and any special requirements of the local Authority Having Jurisdiction.
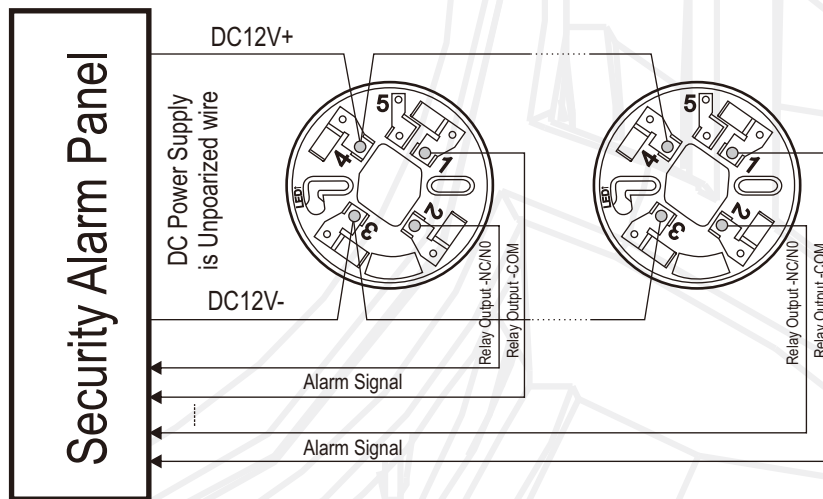
Figure 1. Dimension of detector:

Top   Side   Base

Technical Specifications

Diameter: 103mm	
Height (including mounting base): 55 mm	
Weight: 155 g	
Operating Temperature Range: -10°C to 50°C	
Operating Humidity Range: 10% to 93% Relative Humidity, Noncondensing	
Latching Alarm: Reset by momentary power interruption	

Electrical Ratings

Power Supply Voltage: 12 VDC (9V~ 28VDC)	
Standby Current: 200 µA @ 12VDC	
Alarm Current: 45 mA @ 12VDC	
Alarm Relay Contacts Rating: 2A@24VDC	
Smoke Alarm Sensitivity: 1.06±.26%FT	

Figure 2. Wiring diagram for the detector:

Ordering Information

Part Number	Pack Quantity	Dimensions (w x d x h millimetres)	Weight
YT142	Individual (1 units)	103x103x55	155g

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