

Photoelectric  
Conventional  
Smoke Detector

## Conventional Network Smoke Detector

### LS-828-16L Series



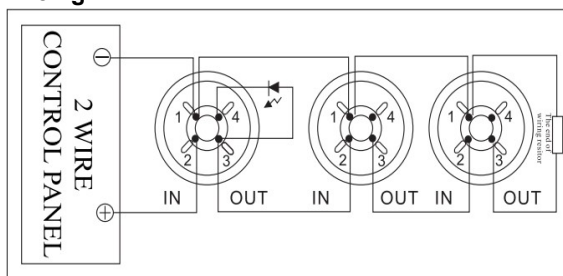
#### Description

The LONGSIN product LS-828-16L series smoke detectors are Photoelectric smoke detector (hereinafter called detector) with options of 2-wire model and 4-wire model. It detects the smoke by a couple of infrared diodes. The principle of detecting is granule in the smoke can reflect infrared light. Infrared diodes are placed in the special chamber. The chamber can shield external light, but doesn't affect the smoke into it. While there is no smoke, the diode can receive very weak infrared light. When the smoke entering the chamber, diode can receive more and more light, and the detector can give out alarm signal when the smoke attains the certain density. In order to reduce the interference and lower power consumption, the emitting circuit adopts the pulse signal. The product in accordance with the networking approach is divided into 2-wire and 4-wire detectors.

#### Technical Specifications

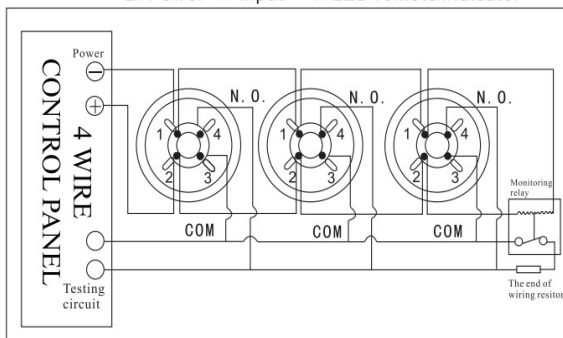
Product Category	LS-828-16L-2 2-wire	LS-828-16L-4 4-wire
Operating Voltage	DC12V (adapt 9~35Vdc)	
Standby Current	30uA	50uA
Alarm Current	35mA@DC12V 60mA@DC24V	18mA@DC12V 6mA@DC24V
Alarm Indication	RED LED ON	
Temperature Range	-10°C~+50°C	
Humidity	0%~95%RH (No Condensation)	
Alarm Output	Remote LED	Relay Output
Contact Rating	N/A	100mA@DC28V
Smoke particles inspection frequency	5 Seconds	
Smoke detection time	1.5 Seconds	
IP level	IP23	
Detection Area	110m <sup>2</sup>	
Height mounted	0~12m	
Size	Φ100*50mm	
Standard	EN54-7/UL268	

#### Wiring



2 wire detectors wiring diagram

1. Power "-" input
2. Power "+" input
3. Power "+" output
4. LED remote indicator



4 wire detectors wiring diagram

1. Cathode input
2. Anode input
3. Relay output (COM)
4. Relay output (N.O.)

#### Features

- Power supply non-polarized input
- MCU processing, eliminate false alarm
- Strong adaptability circumstance
- Lower standby current
- Twin LED for 360° visual
- Flashing LED power indicator
- Remote LED indicator output (2-wire)
- SMT Design, high stability

#### Manufacturer

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