

# Photoelectric Smoke Detector YA-S820

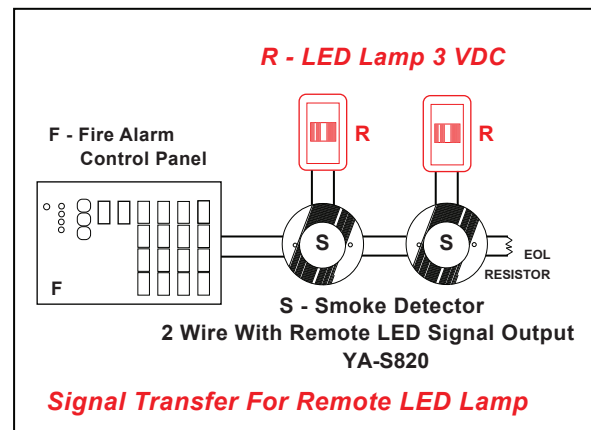


## Operation Theory

This product is a photoelectric smoke detector which runs by detecting smoke particles. Adopted special structure design, and photoelectric signal processing technique, it has the functions of dustproof, mothproof, and anti-electromagnetic interference, the stability of the product is assured from the above. It performs well in detecting visible smoke caused by hidden or bright fire. It's suitable for detecting smoke in houses, stores, hotels, and warehouses, etc.

## Characteristics

- Optical smoke chamber with high stability
- Network by current, N.O/N.C (optional)
- Adopted CMOS with low power consumption
- High adaptability to the ambient, with dustproof, moisture proof, anti-white light, and high EMI immunity function
- Orientation differences:  $M_{max}: M_{min} < 1.6$
- Highlight dual color LED indication
- Anti-tamper switch
- Unique bracket design, easy installation
- Current network output, 2 wire with remote LED signal output



## Specification

Model / <b>Product</b>	YA-S820 Wire / <b>Photoelectric Smoke Detector</b>
<b>Input voltage</b>	9-28 VDC
<b>Static Current</b>	15 ± 5 uA (at DC24V)
<b>Alarm Current</b>	50 ± 5 mA (at DC24V)
<b>Operating Temperature</b>	-10°C - +55°C
<b>Operating Humidity</b>	≤95%RH
<b>Installation</b>	Ceiling mounted
<b>Output / <b>Wiring Mode</b></b>	3 VDC Remote indicator lamp / <b>2 wire with remote LED signal output</b>
<b>Alarm Reset</b>	Power off reset / Auto reset
<b>LED Indicator</b>	Detecting: Green LEDs flash / Alarm: Red LEDs ON
<b>Sensor Type</b>	Infrared photoelectric cell
<b>Sensitivity</b>	$m=0.15-0.03dB/m$
<b>Material / Color</b>	ABS Plastic / White Color
<b>Dimension</b>	∅100 x 45 mm.

## Effective Alert Area

Usafe 2024-13

<b>Construction Height</b>	4 m
<b>Fireproof Building</b>	60 m <sup>2</sup>