JTY-GF-TX3190A

Standalone Photoelectric Smoke Detector

Feature and Benefits

1. The alarm has automatic compensation function. It can automatically compensate performance drift due to external environment (temperature, dust etc.), to some extent, so as to increase reliability of the alarm.
2. The alarm has self-check function, with sound-light alarm signals.
3. The alarm has prompt functions of fault status, alarming status and battery under-voltage status.
4. Use LoRa wireless communication, and wireless coverage area is wide.
5. Low power consumption and long service life of the battery.
6. No wiring, easy arrangement, simple maintenance and low cost.

Overview

The JTY-GF-TX3190A wireless smoke detector consists of a smoke detector and an IoT communication unit (LoRa) (hereinafter referred to as the detector), which can detect a large amount of smoke generated during a fire and send out an alarm signal in time. The detector uses a single-chip microcomputer (MCU) with excellent performance, and completes the compensation for changes in external environmental parameters and fire alarm judgment through the solidified calculation program inside the single-chip microcomputer. Built-in LoRa wireless communication components, stable and reliable, can be connected to wireless gateways, widely used in family residences, supermarkets, stores, hotels, etc. The detector has a built-in buzzer, which emits a strong sound after detection, and has an infrared remote control noise reduction function.

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Technical Specification

The main technical Specification of the controller are shown in the table.

Type	JTY-GF-TX3190A
Power supply	2AA batteries (one 1.5V)
Operating voltage	DC3V (IoT communication unit: 1 lithium battery, alarm: 1 lithium battery)
Monitoring current	<40uA
Alarm current	<40mA
Alarm sound	higher than 80dB (at 3m right ahead, A-weighted)
Wireless communication system	LoRa
Protection area	60m²-100m²
Alarm status indication	Normal monitoring status: red indicator light flashes every 60s and the buzzer does not sound Alarming status: red indicator light flashes quickly;the buzzer sends an alarm signal Fault status: Under-voltage fault: the yellow light flashes once every 50s, and the buzzer sounds briefly; Dust accumulation fault: the yellow light is always on, and the buzzer sounds briefly every 50s
Weight	about 225.6g (including the battery)
Outline dimension	diameter: 111 mm, height: 69 mm (including base)
Installation hole spacing	24mm
IoT communication unit indicator light	Normal monitoring status: the green light flashes once every 60s Fault status: the yellow light flashes once every 60s
Operating environment	temperature -10 ℃ ～ +50 ℃ , relative humidity ≤ 95%RH, without Condensation
Shell material and color	IoT communication unit: ABS (flame retardant) Alarm: PP material, pearl white

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Names and Location

The standalone Photoelectric Smoke Detector's appearance is divided into four part, as show in Figure 1.

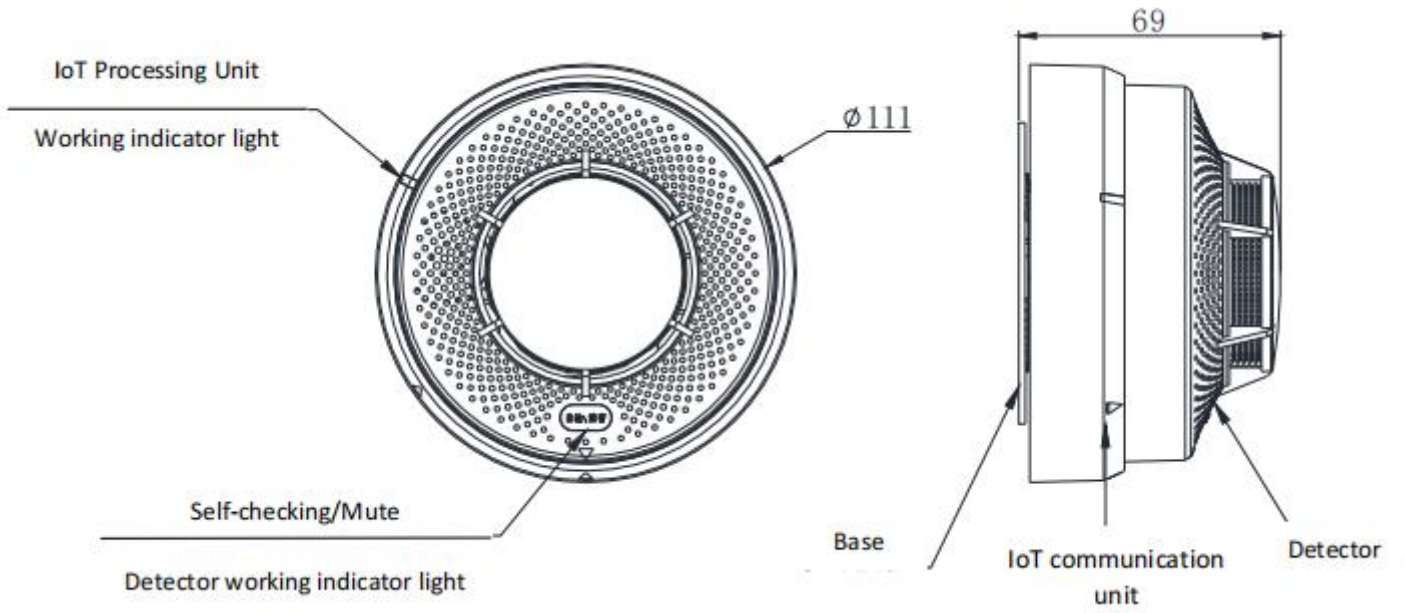

Figure 1: Alarm outline diagram

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