Smoke
Heat Detectors

Models Available

1151 Ionization Detector
2151 Photoelectronic Detector
5451 Heat Detector

General Description

1151 Models JTY-LZ-1151 ionization detectors uses a state-of-the-art sensing chamber. These detectors are designed to provide open area protection and to be used with compatible UL listed panels only.

2151 The LTY-GD-2151 Low-profile photoelectronic detector use a state-of-the-art optical sensing chamber. This detector is designed to provide open area protection and to be used with compatible UL listed panels only.

5451 Model JTY-BCD-5451 is rate-of- rise with fixed temperature alarm thermal detector utilizing a state-of-the-art dual thermistor sensing circuit. These detectors are designed to provide open area protection , With 50 foot spacing capability, and are to be used with compatible control panels only.

Featurs

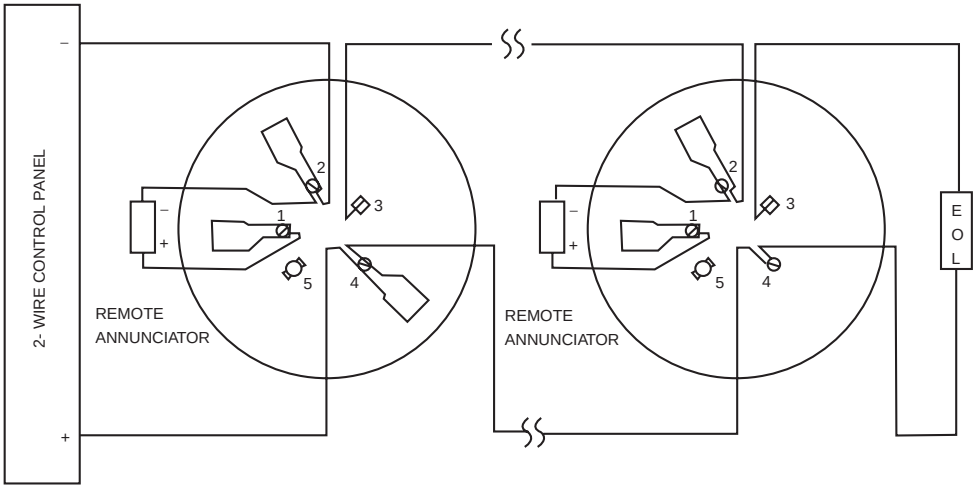
- Low standby current
- Two visible LEDs blink in standby and provide a 360° field viewing angle
- Wide variety of mounting bases with built-in shorting spring
- Field sensitivity testing of detector to meet the requirements of NFPA 72
- Removable cover and insect screen for field cleaning
- Built-in tamper-resistant feature
- SEMS screws for easy wiring
- Built-in test switch
- Listed to UL 268 , GB4715-93(Ion , Photo , Heat) and GB4715-93(Heat)

This document is not intended to be used for installation purposes.

Specifications

Size	
Height (With base):	43mm (Ion), 43mm (Photo), 53 mm (Heat)
Diameter:	102 mm (Ion), 101mm (Photo), 104 mm (Heat)
Operating Temperature Range:	-10° to 60°C for Ion , Photo
	0° to 49°C for Heat
Operating Humidity Range:	10%-93% RH
Latching Alarm:	Reset by momentary power interruption
Operating Voltage:	8.5 ~ 35 VDC (Ion, Photo) 15 ~ 35 VDC (Heat)
Standby Current:	⩽ 120 µA (Ion, Photo) ⩽ 100 µA (Heat)
Alarm Current:	min 10 mA @ 4.2VDC
	max 100 mA @ 6.6VDC
Maximum Ripple Voltage:	4 V AC (Ion, Photo) 4 VAC (Heat)
Sensitivity:	135°F (57°C) Fixed or 15°F/min rate-of-rise
Reset Voltage:	⩽ 2.5VDC
Reset Time:	⩽ 0.3 second
Startup Time:	⩽ 34 second

Typical wiring diagram for 2-wire detector systems:



NOTE:
IF A REMOTE ANNUNCIATOR IS NOT USED, POLARITY OF THESE TERMINALS MAY BE REVERSED.

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