



Model MIX-2251TB Detector mounted in a B210LP Base

### Description

Mircom's low profile addressable plug-in smoke and heat detectors with integral communications provide features that surpass conventional detectors. Sensitivity is continuously monitored and reported to the panel where the desired detector sensitivity can be programmed. Point ID capability allows each detector's address to be set with decade address switches, providing exact detector locations for selective maintenance when chamber contamination reaches an unacceptable level.

**Model MIX-2251B** photoelectric smoke detector provides a unique optical sensing chamber that senses smoke produced by a wide range of combustion sources.

**Model MIX-225BR** is a remote test capable detector for use with DNR(W) duct smoke detectors.

**Model MIX-2251TB** adds dual electronic thermistors to the MIX-2251B to provide 135°F (57°C) fixed temperature thermal sensing.

**Model MIX-2251TMB** is a photoelectric smoke detector with supplementary 135°F thermal. Also known as Acclimate™, it uses advanced on-board software to combine the signals from the photo and thermal elements. The MIX-2251TMB is a true multicriteria detector capable of rejecting nuisance sources, but still responding quickly to real fires. Acclimate has the capability of adjusting its sensitivity according to the type of environment that it is installed in.

### Features

- Sleek, low profile design
- Detectors are equipped with a built-in analog communications module
- Photoelectric detectors are available with additional fixed temperature detection
- Heat detectors are available as fixed temperature or fixed temperature with rate-of-rise detection
- Dual LEDs indicate communications and activate steady when in alarm
- Low profile base provides easy interchangeability
- Low standby current
- Rotary address switches
- Magnetic test feature
- Superior EMI protection

**Model MIX-5251B** uses an innovative thermistor sensing circuit to produce 135°F fixed temperature detection in a low profile package. These thermal detectors provide cost effective, intelligent property protection in a variety of applications.

**Model MIX-5251RB** provides both 135°F fixed and rate-of-rise thermal detection. These thermal detectors provide cost effective, intelligent property protection in a variety of applications.

**Model MIX-5251H** provides 190°F (88°C) fixed temperature detection for high temperature applications.



S6295  
(MIX-1251B,  
MIX-2251B/BR &  
MIX-2251TB)

S6299  
(MIX-5251B/RB/H)



S6965  
(MIX-1251B,  
MIX-2251B/BR &  
MIX-2251TB)

S7498  
(MIX-5251B/RB/H)



7271-1477:122  
(MIX-1251B)  
7271-1477:117  
(MIX-2251B/  
BR/TB)

7271-1477:114  
(MIX-5251B/RB/H)

**MEA**  
approved

148-03-E  
(MIX-1251B)  
219-02-E  
(MIX-2251B/TB)  
390-02-E  
(MIX-5251B/RB/H)

**MSFM**  
approved

2151  
(MIX-1251B)  
2131  
(MIX-2251B/TB)



APPROVED  
3017996

## Specifications

<b>Voltage Range</b>
15 - 32 volts DC peak
<b>Standby Current</b>
300 $\mu$ A @ 24 VDC (one communication every 5 sec. with LED enabled)
<b>Photo/Photo with Thermal:</b>
300 $\mu$ A @ 24 VDC (one communication every 5 sec. with LED enabled)
<b>LED Current (max.)</b>
6.5 mA @ 24 VDC (on)
<b>Height</b>
2.0 inches (51 mm)
<b>Diameter</b>
6.1 inches (155 mm) installed in B210LP Base 4.1 inches (104 mm) installed in B501 Base
<b>Shipping Weight</b>
Heat: 4.8 oz. (136 g) Photo/Photo with Heat: 5.2 oz. (147 g) Ion: 5.4 oz. (153 g)

<b>Operating Humidity Range</b>
10% - 93% noncondensing
<b>Thermal Ratings</b>
Fixed Temperature Setpoint: 135°F (57°C) Rate of Rise Detection: 15°F/min. (8.3°C/min.) High Temperature: 190°F (88°C)
<b>Operating Temperature Range</b>
Ion/Photo: 32°F to 120°F (0°C to 49°C) Photo with Thermal: 32°F to 100°F (0°C to 38°C) Thermal: -4°F to 100°F (-20°C to 38°C) High Temperature: -4°F to 150°F (-20°C to 66°C)
<b>UL Listed Velocity Range</b>
Ion: 0 - 1200 fpm (0 - 6.1 m/sec) Photo/Photo with Thermal: 0 - 4000 fpm (0 - 20 m/sec) (suitable for installation in ducts)

## Ordering Information

Model	Description
<b>Intelligent Detectors</b>	
MIX-2251B	Intelligent Photoelectric Detector
MIX-2251BR	Intelligent Photoelectric Detector. Remote test capable. For use with DNR(W) duct detectors.
MIX-2251TB	Intelligent Photoelectric Detector with 135°F Fixed Temperature Heat Detector
MIX-2251TMB	Intelligent Acclimate™ Multicriteria Smoke Detector
MIX-5251B	Intelligent Heat Detector, 135°F fixed temperature
MIX-5251RB	Intelligent Heat Detector, 135°F fixed temperature with rate-of-rise detection
MIX-5251H	Intelligent High Temperature Heat Detector, 190°F fixed temperature
MIX-5251H	Intelligent High Temperature Heat Detector, 190°F fixed temperature
<b>Bases</b>	
B501	Intelligent Flangeless Mounting Base
B210LP	Intelligent Flanged Mounting Base
B224RB	Intelligent Relay Base
B224BI	Intelligent Isolator Base
B200SR	Intelligent Standard Sounder Base (Compatible with B501BH Series)
<b>Accessories</b>	
RA-100Z	<b>Remote LED Annunciator</b>

Add suffix "A" for Canadian model.



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**Intertek**

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