Mircom MIX-200 SERIES Intelligent Low Profile Sensors Instructions

Contents

Mircom MIX-200 SERIES Intelligent Low Profile Sensors

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.
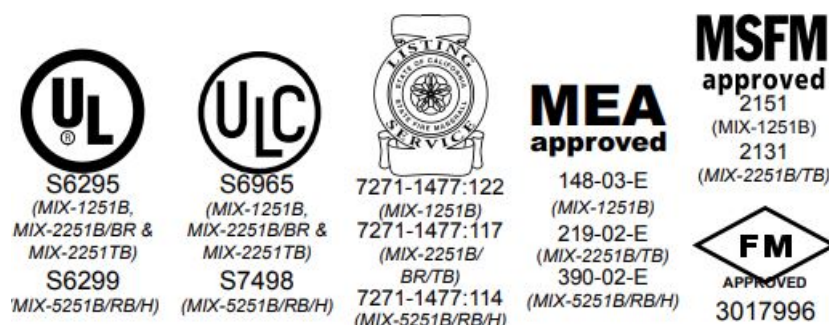
Features

- Sleek, low profile design
- Detectors are equipped with a built-in analog communications module
- Smoke detectors are available with photoelectric or ionization technology
- 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-1251B ionization detector incorporates a unique single source, dual chamber design to respond quickly and dependably to a broad range of fires.

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.

UL
S6295
(MIX-1251B, MIX-2251B/BR & MIX-2251TB)
S6299
'MIX-5251B/RB/H)

ULC
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)

FM APPROVED
3017996

Specifications

Voltage Range
15 – 32 volts DC peak

Standby Current
300 uA @ 24 VDC (one communication every 5 sec. with LED enabled)

Photo/Photo with Thermal:
300 uA @ 24 VDC (one communication every 5 sec. with LED enabled)

LED Current (max.)
6.5 mA @ 24 VDC (on)

Height
2.0 inches (51 mm)

Diameter
6.1 inches (155 mm) installed in B210LP Base
4.1 inches (104 mm) installed in B501 Base

Shipping Weight
Heat: 4.8 oz. (136 g)
Photo/Photo with Heat: 5.2 oz. (147 g) Ion: 5.4 oz. (153 g)

Operating Humidity Range
10% – 93% noncondensing

Thermal Ratings
Fixed Temperature Setpoint: 135°F (57°C) Rate of Rise Detection: 15°F/min. (8.3°C/min.) High Temperature: 190°F (88°C)

Operating Temperature Range
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 100°F (-20°C to 66°C)

UL Listed Velocity Range
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
Intelligent Detectors	
MIX-1251B	Intelligent Ionization Detector
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 AcclimateTM 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
Bases	
B501	Intelligent Flangeless Mounting Base
B210LP	Intelligent Flanged Mounting Base
B224RB	Intelligent Relay Base
B224BI	Intelligent Isolator Base
B200SR	Intelligent Standard Sounder Base (Compatible wih B501BH Series)
Accessories	
RA-100Z	**Remote LED Annunciator**

Add suffix "A" for Canadian model.

PRODUCT INFORMATION IS FOR MARKETING PURPOSES ONLY – NOT TO BE USED FOR INSTALLATION PURPOSES.

Canada
25 Interchange Way Vaughan, Ontario L4K 5W3 Telephone: (905) 660-4655 Fax: (905) 660-4113
Web page: http://www.mircom.com

Email: mail@mircom.com

firealarmresources.com

Documents / Resources

Mircom MIX-200 SERIES Intelligent Low Profile Sensors [pdf] Instructions
MIX-200 SERIES Intelligent Low Profile Sensors, MIX-200 SERIES, Intelligent Low Profile Sensors, Low Profile Sensors, Profile Sensors, Sensors

References

- ⚶ [Fire Alarm Resources | Download fire alarm documents](#)
- ⷯ [Mircom - Smart Buildings. Smarter Solutions.](#)