

200 Series Intelligent Low Profile Plug-in Detectors



Models Available

2251B(A)	Photoelectric Smoke Detector
2251TB(A)	Photoelectric with Thermal
2251TMB(A)	Acclimate™ Multicriteria Smoke Detector
1251B(A)	Ionization Smoke Detector
5251B(A)	Fixed Temperature Thermal Detector
5251RB(A)	Rate-of-Rise Thermal Detector
5251H(A)	High Temperature Thermal Detector

200 Series Bases

B501(A)	Flangeless Mounting Base
B210LP(A)	Flanged Mounting Base
B501BH(A)	Standard Sounder Base
B501BHT(A)	Temporal Tone Sounder Base
B224RB(A)	Relay Base
B224BI(A)	Isolator Base
RMK400	Recessed Mounting Kit
SMK400	Flangeless Surface Mounting Kit
SMB600	Flanged Surface Mounting Kit

200 Series Accessories

F110	Retrofit Flange
RA400Z(A)	Remote LED Annunciator
M02-04-01	Detector Test Magnet
M02-09-00	Telescoping Test Magnet
XR2B	Detector Removal Tool (T55-127-000 included)
XP-4	Extension for XR2 (5–15 ft.)
T55-127-000	Detector Removal Head
BCK-200B	Black Detector Kit

(A) suffix denotes ULC listed product

Product Overview

Sleek, low-profile design

Analog communications

Low standby current

Rotary address switches

Superior EMI protection



System Sensor 200 Series intelligent plug-in smoke detectors with integral communication provide features that surpass conventional detectors. Detector sensitivity can be programmed in the control panel software. Sensitivity is continuously monitored and reported to the panel. 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 2251B photoelectric detector's unique optical sensing chamber is engineered to sense smoke produced by a wide range of combustion sources. Dual electronic thermistors add 135°F fixed temperature thermal sensing on the 2251TB.

Model 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. This software creates 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.

Model 1251B ionization detector incorporates a unique single source, dual chamber design to respond quickly and dependably to a broad range of fires.

Models 5251B and 5251RB use an innovative thermistor sensing circuit to produce 135°F fixed and rate-of-rise thermal detection in a low profile package. Model 5251H provides fixed high temperature detection at 190°F. These thermal detectors provide cost effective, intelligent property protection in a variety of applications.



Specifications

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: 5.2oz. (147 g)

Ion: 5.4 oz. (153 g)

Operating Temperature Range

Ion/Photo: 32° to 120°F (0° to 49°C)

Photo with Thermal: 32° to 100°F
(0° to 38°C)

Thermal: -4° to 100°F (-20° to 38°C)

High Temperature: -4 to 150°F
(-20 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)

Insect Screen Hole Size

Photo – 0.016 inch (0.41mm) nominal

Ion – 0.035 inch (0.89mm) nominal

Relative Humidity

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 Heat: 190°F (88°C)

Voltage Range

15 – 32 volts DC peak

Standby Current (max. avg.)

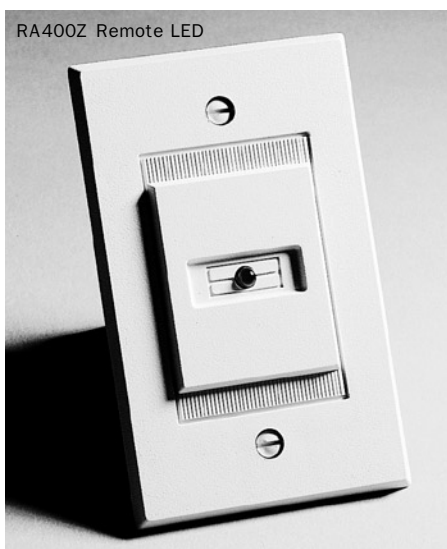
Ion/Thermal: 150 μ A @ 24 VDC
(without communication, LED off)
200 μ A @ 24 VDC (one communication
every 5 sec. with LED enabled)

Photo/Photo with Thermal: 250 μ A @
24 VDC (without communication, LED
off)
300 μ A @ 24 VDC (one communication
every 5 sec. with LED enabled)

LED Current (max.)

6.5 mA @ 24 VDC (on)

Accessories



System Sensor Sales and Service

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