



200 Series Intelligent Low-Profile Plug-In Detectors

The System Sensor 200 Series intelligent plug-in smoke detectors with integral communication provide point location for alarm communication and selective maintenance.



Features

- Sleek, low-profile design
- Analog communications
- Low standby current
- Rotary address switches
- Superior EMI protection
- Dual LEDs for 360° visibility

200 Series smoke detectors are intelligent (addressable) detectors with point ID capability that enable each detector address to be set with decade address switches to provide exact detector locations. The sensitivity of 200 Series detectors can be programmed using the control panel software to suit the environment. In addition, detector sensitivity is continually monitored and reported to the panel.

The **System Sensor 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. The **2251BR** is a remote test capable detector for use with DNR(W) duct smoke detectors.

The **Acclimate® 2251TMB** photoelectric detector includes thermal detection at 135°F. It uses advanced onboard software to combine the signals from the photo and thermal elements to create a true multi-criteria detector capable of rejecting nuisance sources, but still responding quickly to real fires. Separate photo and thermal elements also allow the Acclimate detector to provide different responses to smoke or heat. In addition, the Acclimate detector can adjust its sensitivity according to its environment.

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

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

Agency Listings



For exact certification listings for each model, please reference the respective agency Web site.

200 Series Intelligent Detector Specifications

| Physical/Operating 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: 5.2 oz (147 g); Ion: 5.4 oz (153 g) |
| 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 150°F (-20°C to 66°C) |
| UL-Listed Velocity Range | Ion: 0 to 1,200 fpm (0 to 6.1 m/sec) Photo/Photo with Thermal: 0 to 4,000 fpm (0 to 20 m/sec) (suitable for installation in ducts) |
| Operating Humidity Range | 10% to 93% non-condensing |
| 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) |
| Electrical Specifications | |
| Voltage Range | 15 to 32 VDC peak |
| Standby Current (max. avg.) | 300 μ A @ 24 VDC (one communication every 5 seconds with LED enabled) Photo/Photo with Thermal: 300 μ A @ 24 VDC (one communication every 5 seconds with LED enabled) |
| LED Current (max.) | 6.5 mA @ 24 VDC (on) |

Ordering Information

| Part No. | Description |
|-------------|---|
| 2251B* | Photoelectric smoke detector |
| 2251BR* | Photoelectric smoke detector, remote test capable, for use with DNR(W) duct smoke detectors |
| 2251TB* | Photoelectric smoke detector with thermal |
| 2251TMB* | Acclimate multi-criteria smoke detector |
| 1251B* | Ionization smoke detector |
| 5251B* | Fixed temperature thermal detector |
| 5251RB* | Rate-of-rise thermal detector |
| 5251H* | High temperature thermal detector |
| Bases | |
| B501* | 4" Flangeless mounting base |
| B501BP* | 4" Flangeless mounting base bulk pack |
| B210LP* | 6" Flanged mounting base |
| B210LPBP* | 6" Flanged mounting base bulk pack |
| B200SR* | Standard sounder base (compatible with B501BH series) |
| B200S* | Intelligent addressable sounder base |
| B224RB* | Relay base |
| B224BI* | Isolator base |
| Accessories | |
| SMB600 | Surface Mounting Kit (flanged) |
| F110 | Accessory Flange Ring for 6" Base |
| F110BP | Accessory Flange Ring for 6" Base Bulk Pack |
| F210 | Accessory New Smaller Flange Ring for 6" Base |
| RA100Z | 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 XR2B (5 to 15 ft) |
| T55-127-000 | Detector removal head |
| BCK-200B | Black detector kit (10 pack)** |
| WCK-2008 | White detector kit (10 pack)** |

Accessories



* Add "A" for ULC listed product (e.g., 2251BA)

** The BCK-200B and WCK-200B are only applicable to the B210LP flanged style mounting base and may only be used with 2251B (photoelectric) and 1251B (ionization) smoke detectors.



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