



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 2251BA** photoelectric detector's unique optical sensing chamber is engineered to sense smoke produced by a wide range of combustion sources. Dual electronic thermistors add 57°C (135°F) fixed temperature thermal sensing on the **2251TBA** model. The **2251BRA** is a remote test capable detector for use with DNRA duct smoke detectors.

The **Acclimate™ 2251TMBA** photoelectric detector includes thermal detection at 57°C (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. In addition, the Acclimate detector can adjust its sensitivity according to its environment.

Both the **5251BA** and **5251RBA** detectors use an innovative thermistor sensing circuit to produce 57°C (135°F) fixed and rate-of-rise thermal detection in low-profile packages. The **5251HA** model provides fixed high-temperature detection at 88°C (190°F). These thermal detectors provide cost-effective, intelligent property protection in a variety of applications.

Agency Listings



200 Series Intelligent Detector Specifications

Physical/Operating Specifications	
Height	51mm (2.0")
Diameter	155mm (6.1") installed in B210LPA base; 104mm (4.1") installed in B501A base
Shipping Weight	Heat: 136 g (4.8 oz); Photo/Photo with Heat: 147 g (5.2 oz); Ion: 153 g (5.4 oz)
Operating Temperature Range	Ion/Photo: 0°C to 49°C (32°F to 120°F) Photo with Thermal: 0°C to 38°C (32°F to 100°F) Thermal: -20°C to 38°C (-4°F to 100°F) High Temperature: -20°C to 66°C (-4°F to 150°F)
ULC-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)
Operating Humidity Range	10% to 93% non-condensing
Thermal Ratings	Fixed Temperature Setpoint: 57°C (135°F) Rate-of-Rise Detection: 8.3°C/min. (15°F/min.) High Temperature Heat: 88°C (190°F)
Electrical Specifications	
Voltage Range	15 to 32 VDC peak
Standby Current (max. avg.)	300 µA @ 24 VDC (one communication every 5 seconds with LED enabled) Photo/Photo with Thermal: 300 µA @ 24 VDC (one communication every 5 seconds with LED enabled)
LED Current (max.)	6.5 mA @ 24 VDC (on)

Ordering Information

Part No.	Description
2251BA	Photoelectric smoke detector
2251BRA	Photoelectric smoke detector, remote test capable, for use with DNRA duct smoke detectors
2251TBA	Photoelectric smoke detector with thermal
2251TMBA	Acclimate™ multi-criteria smoke detector
5251BA	Fixed temperature thermal detector
5251RBA	Rate-of-rise thermal detector
5251HA	High temperature thermal detector
Bases	
B501A	4" Flangeless mounting base
B210LPA	6" Flanged mounting base
B200SRA	Standard sounder base (compatible with B501BH series)
B200SA	Intelligent addressable sounder base
B224RBA	Relay base
B224BIA	Isolator base
Accessories	
SMB600	Surface Mounting Kit (flanged)
F110	Accessory Flange Ring for 6" Base
RA100ZA	Remote LED annunciator
M02-09-00	Telescoping test magnet
XR2B	Detector removal tool (T55-127-000 included)
XP-4	Extension for XR2B (5 to 15 ft)
BCK-200B	Black detector kit (10 pack)**

Accessories



RA100ZA
Remote LED
Annunciator

XR2B
Detector
Removal Tool

* The BCK-200B is only applicable to the B210LPA flanged style mounting base and may only be used with 2251BA (photoelectric) smoke detector.