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200 Series Low Profile Plug-in Detector



Description

Harrington Signal 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. The 2251BR is a remote test capable detector used with DNR(W) Duct Smoke Detector.

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.

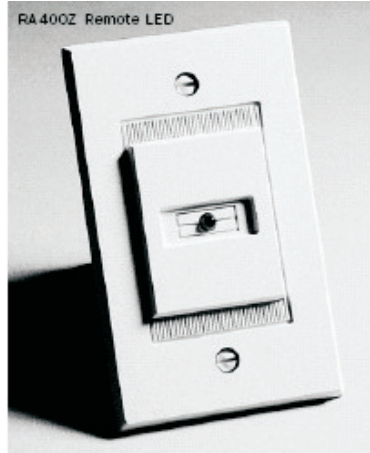
Model 5251B and 5251RB use an innovative thermistor sensing circuit to produce 135°F fixed and rate-of-rise thermal detection in a low profile package. Model 5251H provides fixed high temperature detection at 190°F. These thermal detectors provide cost effective, intelligent property protection in a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



Ordering Information

Model Number	Part Number	Description
2251B	349-1046	Addressable Photo Smoke
2251BR	349-1056	Addressable Photo Smoke, to be used with DNR(W) Duct Smoke
2251TB	349-1047	Addressable Photo with thermal
2251TMB	349-1071	Addressable Multi Sensor
5251H	349-1059	Addressable Heat 190 degree fixed
1251B	349-1048	Addressable Ion Smoke
5251B	349-1049	Addressable Heat 135 degree fixed
5251RB	349-1050	Addressable Heat 135 degree ROR

Accessories



Models Available

2251B(A) Photoelectric Smoke Detector
 2251BR(A) Photoelectric for use with DNR(W)
 Duct 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 Rate-of-Rise Thermal Detector
 5251H(A) High emperature Thermal Detector

200 Series

B501(A) Flangeless Mounting Base
 B210LP(A) Flanged Mounting Base
 B501BH(A) Standard Sounder Base
 B501BHT(A) Temporal Tone Sounder Base
 B501BH-2 Standard Sounder Base: Complies with UL864 9th Edition
 B501BHT-2 Temporal Tone Sounder Base: Complies with UL864 9th Edition
 B5224RB(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
 WCK-200B White Detector Kit (10 pack)**

**The BCK-200B and WCK200B are only applicable to the B210LP flanged style mounting base and may only be used with 2251B (photoelectric) and 1251B (ionization) Smoke Detectors.

Specifications

Weight 2.0 inches (51 mm)	UL Listed Velocity Range Ion: 0-1200 fpm (0-6.1m/sec) Photo/Photo with Thermal: 0-4000 fpm (0-20 m/sec) (suitable for installation in ducts)	Standby Current (max. avg.) Ion/Thermal: 150µA @ 24 VDC (without communication, LED off) 200µA @ 24 VDC (one communication every 5 sec. With LED enabled)
Diameter 6.1 inches (155 mm) installed in B210LP base 4.1 inches (104 mm) installed in B501 base	Insect Screen Hole Size Photo- 0.016 inch (0.41mm) nominal Ion- 0.035 inch (0.89mm) nominal	Photo/Photo with Thermal: 250µA @ 24 VDC (without communication, LED off) 300µA @ 24 VDC (one communication every 5 sec. With LED enabled)
Shipping Weight Heat: 4.8 oz. (136 g) Photo/Photo with Heat: 5.2oz. (147 g) Ion: 5.4 oz. (153g)	Relative Humidity 10%- 93% noncondensing	LED Current (max.) 6.5 mA @ 24 DVC (on)
Operating Temperature Range Ion/Photo: 32° to 120°F (0° to 49°C) Photo with Thermal: 32° to 100°F (0°F to 38°C)	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)	
Thermal: -4° to 100°F (-20° to 38°C)	Voltage Range 15-32 volts DC peak	
High Temperature: -4° to 150°F (-20° to 66°C)		

NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information are provided with the product and are available from Harrington Signal Inc. Fire Alarm. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact Harrington Signal Inc. Harrington Signal Inc. Fire Alarm reserves the right to change specifications without notice. Quality manufactured for Harrington Signal Inc. By System Sensor.