F220-B6 Conventional Detector Bases

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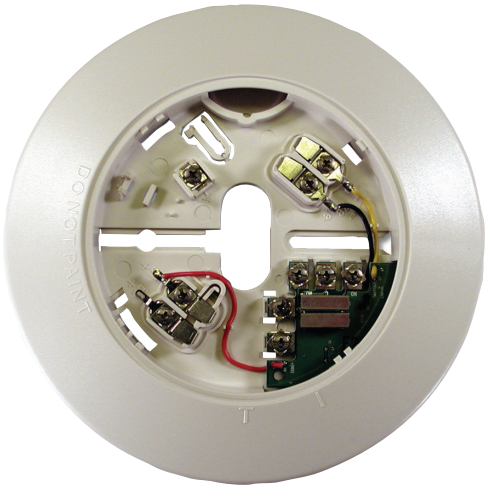

- Easy installation
- Interchangeable detector heads
- UL listed when used with a detector from the F220 family

The F220-B6 Detector Bases work with the F220 Photoelectric Smoke and Heat Detectors. The F220-B6 is a 12 V or 24 V base for two-wire loops. The other bases in this family are 12 V or 24 V bases for four-wire loops.

Certifications and approvals

Region	Certification	
USA	UL	UQGS: Heat - Automatic Fire Detectors (UL521), UROX: Smoke - Automatic Fire Detectors (UL268), UROX7: Smoke - Automatic Fire Detectors Certified for Canada (CAN/ULC-S529)
	FM	F220-B6 Family
	CSFM	see our website
	NYC-MEA	(117-05-E)
	MSFM	permit #2200 Sep 2008
Hong Kong	HKFSD	J-002/C/067

Installation/configuration notes

Compatibility Information
Two-wire: Bosch Security Systems, Inc. makes no claim written, oral, or implied that the F220-B6 Detector Bases work with any two-wire control panels except those specified in the Two-wire Detector/ Control Panel Compatibility List Technical Service Note (P/N: 4998148185).
Four-wire: Compatible with all UL Listed four-wire control panels. Refer to the control panel's Installation Instructions for proper end-of-line (EOL) resistor selection.
Detectors: Compatible with the following F220 Series Detector Heads:

- F220-P Photoelectric Smoke Detector
- F220-PTH Photoelectric Smoke Detector with +135°F (+57°C) Heat Sensor
- F220-PTHC[1] Photoelectric Smoke Detector with +135°F (+57°C) Heat Sensor and Carbon Monoxide Sensor Enhancement[1]
- F220-135 Electronic Rate-of-Rise, Fixed Temperature +135°F (+57°C) Heat Detector
- F220-135F Electronic Fixed Temperature +135°F (+57°C) Heat Detector
- F220-190F Electronic Fixed Temperature +190°F (+88°C) Heat Detector

[1] The F220-PTHC detects carbon monoxide (CO) as a component of a fire. It is not a CO detector and cannot activate an alarm in the presence of CO only.

Mounting Considerations
Depending on local regulations, surface mount the bases using anchors, mollies, or wing nuts; or mount the bases directly on four-inch square or octagonal electrical boxes or single-gang switch boxes.

Notice
The electrical box must be large enough to accommodate the number and size of conductors specified by the National Electrical Code or any local authorities having jurisdiction (AHJ).

Wiring Considerations
In a two-wire system, the maximum loop length depends on the number of detector bases on the loop, the wire size, and the control panel specifications. Refer to the control panel's installation instructions for specific wiring information.
In a four-wire system, the maximum loop length and number of bases that can be placed on a loop depend on the voltage drop on the power circuit. Use standard voltage drop calculations to ensure that the last detector on the loop has at least 10 V.

Parts included

Quant.	Component
1	Detector base
1	Literature pack

Technical specifications

Environmental

Relative Humidity:	Up to 95%, non-condensing
Temperature (operating):	+32°F to +100°F (0°C to +38°C)

Mechanical

Color:	Off-white
Dimensions (diameter x D)	6 in. x 0.9 in. (15.2 cm x 2.3 cm)
Material:	Fire-resistant plastic

Ordering information

F220-B6 12/24 VDC Two-wire Base
Standard base for two-wire (12 VDC or 24 VDC system) applications.
Order number **F220-B6**

F220-B6R Standard 12/24 VDC Four-wire Base
Standard base for four-wire (12 VDC or 24 VDC) detector systems.
Order number **F220-B6R**

F220-B6C 12/24 VDC Four-wire Base with Auxiliary Form C Relay
Four-wire base with a normally-open (NO) alarm loop relay and a set of auxiliary contacts (Form C).
Order number **F220-B6C**

F220-B6E 12/24 VDC Four-wire Power Supervision Base with End-of-line Power Monitoring Relay
Four-wire base with a normally-open (NO) alarm relay and an EOL power supervision relay.
Order number **F220-B6E**

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