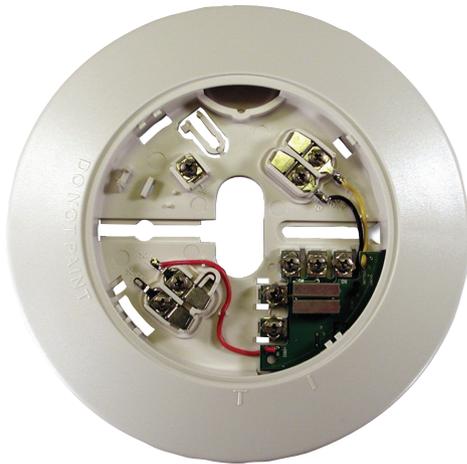




# F220-B6 Series Conventional Detector Bases



- ▶ **Easy installation**
- ▶ **Interchangeable detector heads**
- ▶ **UL listed when used with an F220 Series detector**

The F220-B6 Series Detector Bases work with the F220 Series 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 series are 12 V or 24 V bases for four-wire loops.

## Certifications and Approvals

Region	Certification	
USA	UL	UQGS: Heat - Automatic Fire Detectors (UL521), UQGS7: Heat - Automatic Fire Detectors Certified for Canada (CAN/ULC-S530-M91), UROX: Smoke - Automatic Fire Detectors (UL268), UROX7: Smoke - Automatic Fire Detectors Certified for Canada (ULC529)
	FM	
	CSFM	1700-1615: 105
	NYC-MEA	(117-05-E)
	MSFM	2200 Sep 2008
Hong Kong	HKFSD	

## Installation/Configuration Notes

### Compatibility Information

**Two-wire:** Bosch Security Systems, Inc. makes no claim written, oral, or implied that the F220-B6 Series 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<sup>1</sup> Photoelectric Smoke Detector with +135°F (+57°C) Heat Sensor and Carbon Monoxide Sensor Enhancement<sup>1</sup>
- 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

<sup>1</sup> 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.

**Note** 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 F220-B6 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 Considerations**

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

**Mechanical Properties**

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**

<b>F220-B6 12/24 VDC Two-wire Base</b> Standard base for two-wire (12 VDC or 24 VDC system) applications.	<b>F220-B6</b>
<b>F220-B6R Standard 12/24 VDC Four-wire Base</b> Standard base for four-wire (12 VDC or 24 VDC) detector systems.	<b>F220-B6R</b>
<b>F220-B6C 12/24 VDC Four-wire Base with Auxiliary Form C Relay</b> Four-wire base with a normally-open (NO) alarm loop relay and a set of auxiliary contacts (Form C).	<b>F220-B6C</b>
<b>F220-B6E 12/24 VDC Four-wire Power Supervision Base with End-of-line Power Monitoring Relay</b> Four-wire base with a normally-open (NO) alarm relay and an EOL power supervision relay.	<b>F220-B6E</b>
<b>Accessories</b>	
<b>D275 Power Supervision Module</b> Line supervision device for four-wire fire detection circuits	<b>D275</b>

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