



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 24 V bases for four-wire loops.

Certifications and Approvals

Listings and Approvals:	UL UQGS: Heat - Automatic Fire Detectors (UL521) UL UQGS7: Heat - Automatic Fire Detectors Certified for Canada (CAN/ULC-S530-M91) UL UROX: Smoke - Automatic Fire Detectors (UL268) UL UROX7: Smoke - Automatic Fire Detectors Certified for Canada (ULC529) CSFM 7300-1615: 105 Factory Mutual Research Hong Kong Fire Services Department NYC/MEA (117-05-E)
-------------------------	--

Installation/Configuration Notes

Compatibility Information

Two-wire: Bosch Security Systems 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 Base Compatibility chart in *Technical Service Note* (P/N: 4998148185).

Four-wire: Compatible with all UL Listed four-wire control panels. Refer to the manufacturer's Installation Instructions for proper end-of-line (EOL) resistor selection.

Detectors: Compatible with the following F220 Series Detectors:

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

Mounting Considerations

Depending on local regulations, surface mount the bases using anchors, mollies, or wing nuts; or mount the

bases directly on four-inch 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.

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

F220-B6 Two-wire Base	F220-B6
F220-B6R Standard Four-wire Base	F220-B6R
F220-B6C Four-wire Base with Auxiliary Form C Relay	F220-B6C
F220-B6E Power Supervision Base with End-of-line Power Monitoring Relay	F220-B6E

Parts Included

Quant.	Component
1	Detector base
1	Literature pack

Americas:
 Bosch Security Systems
 130 Perinton Parkway
 Fairport, New York, 14450, USA
 Phone: +1 585 223 4060
 Fax: +1 800 289 0096
 security.sales@us.bosch.com
 www.boschsecurity.us

Europe, Middle East, Africa:
 Bosch Security Systems B.V.
 P.O. Box 80002
 5600 JB Eindhoven, The Netherlands
 Phone: +31 40 27 83955
 Fax: +31 40 27 86668
 emea.securitysystems@bosch.com
 www.boschsecurity.com

Asia-Pacific:
 Bosch Security Systems Pte Ltd
 38C Jalan Pemimpin
 Singapore 577180
 Phone: +65 6319 3450
 Fax: +65 6319 3499
 apr.securitysystems@bosch.com
 www.boschsecurity.com

Represented by