F220-B6PS/M Addressable Detector Bases with POPITs
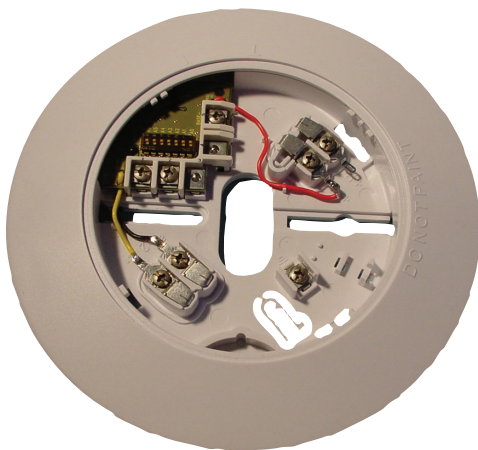
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▶ POPITs provide individual addresses on the control panel data expansion circuit

▶ Multiple base can supervise up to 19 two-wire detectors

▶ Chamber Check with F220 family detectors

▶ DIP switch address setting

▶ Compatible with PAM-4 Relay Module

The F220-B6PM 24 VDC Four-wire Addressable Multiple Base and F220-B6PS 12/24 VDC Four-wire Addressable Single Base, with their built-in POPITs, provide individual addresses on the FACP data expansion circuit. These bases accept the F220 Family Photoelectric Smoke and Heat Detector Heads. When using these bases with one of the F220 Detectors, they provide a Chamber Check trouble indication to the control panel through the POPIT Bus. The trouble indication appears at the keypads and annunciators as a Fire Trouble.

These bases are compatible with addressable systems controlled by D9412G Series or D7412G Series or newer control panels with a D8125 POPEX Module and 12 V or 24 V auxiliary power or a D9124 24 V Fire Alarm Control Panel (FACP).

Certifications and approvals

Region	Certification	
USA	UL	UROX: Smoke - Automatic Fire Detectors (UL268 and A), UROX7: Smoke - Automatic Fire Detectors Certified for Canada (CAN/ULC-S529)
	FM	F220-B6P Family
	CSFM	see our website
	NYC-MEA	117-05-E

Installation/configuration notes

Compatibility Information
The following products are compatible with both the F220-B6PM and the F220-B6PS detector bases:

Category	Product ID	Product Description
Control Panels	G Series[1]	12 V Addressable Control Panels
	D9124	Addressable FACP

Can be used as replacement bases on systems using other Bosch Security Systems, Inc. control panels (versions B1 or earlier)

Detector Heads	F220-135	Rate-of-Rise and fixed temperature heat detector (+135℉ [+57℃])
	F220-135F	Fixed temperature heat detector (+135℉ [+57℃])
	F220-190F	Fixed temperature heat detector (+190℉ [+88℃])
	F220-P	Photoelectric smoke detector head
	F220-PTH	Photoelectric smoke detector head with fixed-temperature (+135℉ [+57℃]) heat sensor
	F220-PTHC[2]	Photoelectric smoke detector head with fixed-temperature (+135℉ [+57℃]) heat sensor and carbon monoxide sensor enhancement[1]
Modules	PAM-4	Relay module

[1] Includes the D7412G (and newer) Series and D9412G (and newer) Series control panels
[2] 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.
The following products are also compatible with the F220-B6PM Multiple Detector Base:

Category	Product ID	Product Description
Detector Bases	F220-B6	Two-wire detector base

Mounting
The F220-B6PM and F220-B6PS bases mount directly on single-gang switch boxes or on four-inch square or octagonal back boxes. They can mount directly on a surface using anchors, mollies, or wing nuts.

Wiring
The B6PS/M bases can accept any solid wire size from 12 AWG to 24 AWG (ISO 4 mm^2 to 0.2 mm^2). The minimum wire size required by the bases is determined by the maximum number of bases used and the maximum distance from the FACP to the most remote base. For specific wiring instructions and specifications, see the *F220-B6PS/M Installation Instructions*.

Parts included

Quant.	Component
1	Detector base with POPIT
1	Literature pack

Technical specifications

Electrical (B6PM)

Current (Alarm)

B6PM with Head[3]:	39 mA
B6PM with PAM-4 Relay Module and Head[3]:	55 mA

Current (Idle)

B6PM with Head[3]:	13 mA
B6PM with PAM-4 Relay Module and Head[3]:	29 mA

Auxiliary Power Voltage Range

B6PM with Head[3]:	18.9 VDC to 28 VDC
B6PM with PAM-4 Relay Module and Head[3]:	18.9 VDC to 28 VDC

[3] Current ratings are based on a B6PM with 19 detectors. The B6PM base and the PAM-4 Relay Module operate at 24 VDC nominal.

Electrical (B6PS)

Current (Alarm)

B6PS with Head[4]:	35 mA
B6PS with PAM-4 Relay Module and Head:	51 mA

Current (Idle)

B6PS with Head[4]:	2.5 mA
B6PS with PAM-4 Relay Module and Head:	18.5 mA

Auxiliary Power Voltage Range

B6PS with Head[4]:	9.6 VDC to 28 VDC
B6PS with PAM-4 Relay Module and Head:	9.6 VDC to 28 VDC

[4] The B6PS base can operate at 12 VDC nominal or 24 VDC nominal.

Ordering information

F220-B6PM 24 VDC Four-wire Addressable Multiple Detector Base
The multiple detector base provides an address on the FACP data expansion circuit for its detector and up to an additional 19 detectors. It accepts the F220 Photoelectric Smoke Detector Heads and Heat Detector Heads.
Order number **F220-B6PM**

F220-B6PS 12/24 VDC Four-wire Addressable Single Detector Base

The single detector base provides an address on the FACP data expansion circuit for its detector. It accepts the F220 Photoelectric Smoke Detector Heads and Heat Detector Heads.

Order number **F220-B6PS**

Accessories

PAM-4 Relay Module

One set of 10.0 A, Form C contacts that can be energized across a range from 9 VDC to 40 VDC

Order number **PAM-4**