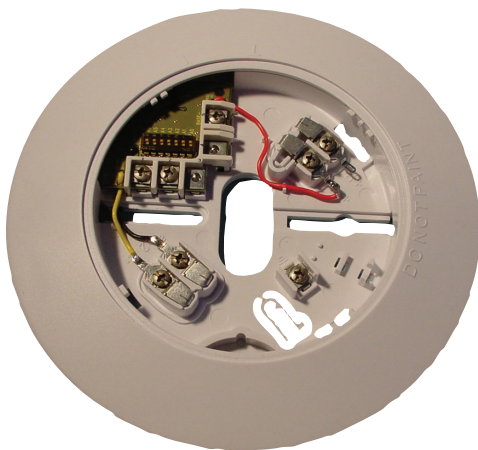


F220-B6PS/M Addressable Detector Bases with POPITs

www.boschsecurity.com



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Invented for life



- ▶ POPITs provide individual addresses on the control panel data expansion circuit
- ▶ F220-B6PM base supervises its own detector and up to 19 additional two-wire detectors in F220-B6 bases
- ▶ Chamber Check with F220 family detectors
- ▶ DIP switch address setting
- ▶ Compatible with PAM-4 Relay Module

The F220-B6PM Base and F220-B6PS Base, with their built-in POPITs, provide individual addresses on the FACP data expansion circuit. The F220-B6PM Base provides an address on the FACP expansion circuit for its detector and up to an additional 19 detectors. The F220-B6PS Base provides an address on the FACP expansion circuit for its detector only.

The bases accept the F220 Family Photoelectric Smoke and Heat Detector Heads. When using the 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.

Certifications and approvals

Region	Regulatory compliance/quality marks	
USA	UL	UL 268, Smoke Detectors for Fire Alarm Systems
	FM	F220-B6PS/M Bases
	CSFM	see www.boschsecurity.com (the Bosch website)

Region	Regulatory compliance/quality marks	
	NYC-MEA	117-05-E
Canada	ULC	CAN/ULC-S529, Smoke Detectors for Fire Alarm Systems

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°F [+57°C])
	F220-135F	Fixed temperature heat detector (+135°F [+57°C])
	F220-190F	Fixed temperature heat detector (+190°F [+88°C])
	F220-P	Photoelectric smoke detector head
	F220-PTH	Photoelectric smoke detector head with fixed-temperature (+135°F [+57°C]) heat sensor
	F220-PTHC ³	Photoelectric smoke detector head with fixed-temperature (+135°F [+57°C]) heat sensor and carbon monoxide sensor enhancement

¹ Includes the B9512G, B8512G, D9412GV4, D7412GV4, D9412GV3, D7412GV3, D7212GV3², D9412GV2, D7412GV2, D7212GV2² control panels.

² The D7212 models are not listed for commercial fire applications.

³ 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 mm² to 0.2 mm²). 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*.

Technical specifications

Electrical - B6PM

Current, alarm B6PM with Head ¹ B6PM with PAM-4 Relay Module and Head ¹	39 mA 55 mA
Current - idle B6PM with Head ¹ B6PM with PAM-4 Relay Module and Head ¹	13 mA 29 mA
Auxiliary Power Voltage Range B6PM with Head ¹ B6PM with PAM-4 Relay Module and Head ¹	18.9 VDC to 28 VDC 18.9 VDC to 28 VDC

¹ Current ratings are based on a B6PM with 19 additional detectors. The B6PM base and the PAM-4 Relay Module operate at 24 VDC nominal.

Electrical - B6PS

Current - alarm B6PS with Head ² B6PS with PAM-4 Relay Module and Head	35 mA 51 mA
Current - idle B6PS with Head ² B6PS with PAM-4 Relay Module and Head	2.5 mA 18.5 mA
Auxiliary power voltage range B6PS with Head ² B6PS with PAM-4 Relay Module and Head	9.6 VDC to 28 VDC 9.6 VDC to 28 VDC

² The B6PS base can operate at 12 VDC nominal or 24 VDC nominal.

Ordering information

F220-B6PM Base, multiple, 4-wire 12/24V

Multiple detector base provides an address on the FACP data expansion circuit for its detector and up to an additional 19 detectors, accepts the F220 Photoelectric Smoke Detector Heads and Heat Detector Heads in an F220-B6 Base
Order number **F220-B6PM**

F220-B6PS Base, single, 4-wire 12/24V

Single detector base provides address on the FACP data expansion circuit for its detector, accepts the F220 Photoelectric Smoke Detector Heads and Heat Detector Heads
Order number **F220-B6PS**

Accessories

B299 Expansion module, SDI2

Provides system expansion support for up to 100 POPIT devices

Order number **B299**

D8125 Expansion module

Provides expansion up to 238 POPIT devices.

Order number **D8125**

PAM-4 Relay module, form C, 10A 12/24V

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**

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