

FAA-440 Analog Bases

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- ▶ Modular design
- ▶ Easy detector removal for cleaning and servicing
- ▶ Stable mounting of detectors
- ▶ Terminal screws for remote LED, Data In and Out provided
- ▶ Some models include isolator circuitry which prevents the entire SLC loop from being disabled when a short circuit occurs

The FAA-440 Analog Bases come in two sizes (4 in. [10 cm] and 6 in. [16 cm]) and two models (Standard and ISO which has a built-in isolator). They are used in combination with FAP-440 and FAH-440 analog addressable detectors to provide early fire warning for life safety and property protection.

Functions

Indicator LED (Isolator Bases)

In the event of a short circuit, the isolator base LED will show a steady yellow signaling a trouble condition.

Modular Design

The detector base is part of a two-piece modular designed detector assembly. The permanently installed base provides in and out terminals for the polling circuit.

Preservation of loop

It contains a simple rugged design with terminal screws for wiring and preserves loop continuity when detectors are removed.

Locking System

A simple tamper-proof locking system is provided which can be enabled by removing a small plastic tab on the back of the detector. Once locked, the detector can only be removed by using a small screw driver.

Certifications and Approvals

Region	Certification	
USA	CSFM	7300-1615:0244
	UL	UROX Smoke-automatic Fire Detectors (ANSI/UL 268)

Installation/Configuration Notes

Compatible Products

The following products are compatible with the FAA-440 Analog Bases:

Category	Product ID	Product Description
Fire Panels	FPA-1000 Series	Analog Addressable Fire Panels
Fire Panel Accessories	FPE-1000-SLC	Signaling Line Circuit Plug-in Module
Detectors	FAH-440	Analog Heat Detector

FAP-440	Analog Photoelectric Detector
FAP-440-D	Analog Dual Ray Photoelectric Detector
FAP-440-DT	Analog Dual Ray Multisensor Detector Photo/Heat
FAP-440-DTC	Analog Dual Ray Multicriteria Detector Photo/Heat/CO
FAP-440-T	Analog Multisensor Detector Photo/Heat
FAP-440-TC	Analog Multicriteria Detector Photo/Heat/CO

Mounting Considerations

Detectors are typically mounted on the ceiling. However, if detectors are mounted on a wall, they must be at least 4 in. (10.2 cm), but no more than 12 in. (30.5 cm), below the ceiling. When other devices containing magnets or producing magnetic fields (for example, loudspeakers) are present in the area, the base must be at least 1 ft (30 cm) from these devices to prevent unwanted activation of the test switch.

For UL Listing requirements, the spacing between smoke detectors should be no more than 30 ft (9.14 m) and the spacing between heat detectors should be no more than 50 ft (15.24 m).

Wiring Considerations

The control panel communicates to the detectors via the analog addressable loop (SLC), which allows the use of standard non-twisted, non-shielded wiring. The following wire gauges were tested and approved:

Wire Gauge	Maximum length
18 AWG (0.8 mm ²)	4000 ft (1200 m)
16 AWG (1.3 mm ²)	6225 ft (1900 m)
14 AWG (2.1 mm ²)	7200 ft (2200 m)
12 AWG (3.3 mm ²)	9850 ft (3000 m)

Remote Indicator

If a remote indicator is used in the circuit, it must be no more than 10 ft (3 m) from the base.

Parts Included

Quant.	Component
1	FAA-440-B4 or -B6 Series Analog Base
1	Hardware pack <ul style="list-style-type: none"> Two 2-inch mounting screws (stainless steel raised head [Phillips and slot] with N8-32UNC thread)
1	Literature – Installation Guide

Technical Specifications

Electrical (Isolator Bases)

Maximum current consumption at 77°F (25°C) and 39 V bus voltage

• Standby:	0.07 mA
• Alarm:	10 mA
Operating voltage (SLC loop):	24 V DC to 41 V DC
Internal resistance:	< 50 Ω
Power up time:	< 30 ms
Shut down time:	< 50 ms

Environmental

Protection category:	IP 42
Relative Humidity:	< 95% (non-condensing)
Installation Temperature:	+32°F to +100°F (0°C to +38°C)

Storage Temperatures:

• Without CO sensor	-13°F to +176°F (-25°C to +80°C)
• With CO sensor	+14°F to +122°F (-10°C to +50°C)

Mechanical

Dimensions	
• Detector:	4.4 in. x 2.0 in. (11.2 cm x 5.1 cm)
• Detector with 4-inch base:	5.0 in. x 2.5 in. (12.7 cm x 6.4 cm)
• Detector with 6-inch base:	7.0 in. x 2.5 in. (17.8 cm x 6.4 cm)
Housing Material:	CYCOLOY/ABS

Trademarks

All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

Ordering Information

FAA-440-B4 Analog Standard Base 4-inch

Order number **FAA-440-B4**

FAA-440-B4-ISO Analog Isolator Base 4-inch

Order number **FAA-440-B4-ISO**

FAA-440-B6 Analog Standard Base 6-inch

Order number **FAA-440-B6**

FAA-440-B6-ISO Analog Isolator Base 6-inch

Order number **FAA-440-B6-ISO**

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