BOSCH

FCP-350 Smoke Detector Head Series

▶ Wide viewing angle alarm indicators

▶ Automatic drift compensation and maintenance indication

▶ Built-in magnetic test feature

▶ Optimized reduction to false alarms and enhanced reaction time to real fires

The device is UL 268 7th edition listed and is a reliable, high-quality multi-criteria Photoelectric Smoke Detector. It can be used in all open areas where Photoelectric Smoke Detectors are required. The newly developed multi-spectrum smoke categorization technology detects smoldering and flaming fires fueled by traditional materials and polyurethane while reducing nuisance alarms.

System overview

This device utilizes a green/red LED for indication of status. In a normal standby condition the LED flashes green every 3 seconds. When the detector senses that its sensitivity has drifted outside the UL listed sensitivity window the LED will flash Red every 3 seconds. When the detector senses smoke and goes into alarm the status the LED will latch on Red.

Functions

This device utilizes an Infrared and Blue LED light source and silicon photodiode receiving element in the smoke chamber. In a normal standby condition, the receiving element receives no light from the pulsing LED light source. In the event of a fire, smoke enters the device smoke chamber and light is reflected from the smoke particles to the receiving element. The light received is converted into an electronic signal.
Fire Judgement signals are processed and compared to a reference level. When the signal exceeds the reference level, the alarm signal is triggered. The status LED latch on continuously during the alarm period.

Regulatory information

Region	Agency	Certification
US	UL	UL 268: Smoke Detector for Fire Alarm Systems
	CSFM	California State Fire Marshall (see our website)
	FM	FCP-350 Heat

Installation/configuration notes

Compatible bases
- FCA-350-B4
- FCA-350-B6
- FCA-350-B6R12
- FCA-350-B6R24
- FAA-350

Technical specifications

Mechanical

Dimensions (H x W x D) (cm)	10.00 cm x 10.00 cm x 5.53 cm
Dimensions (H x W x D) (in)	3.94 inch 3.94 inch x 2.18 inch
Weight	3.4 oz
Color	Ivory
Material	ABS plastic

Environmental

Integrated heat detector response temperature (FCP-350-PTH) (ºC)	57ºC
Integrated heat detector response temperature (FCP-350-PTH) (ºF)	135ºF
Relative Humidity	<95%RH @ 104ºF (40 ºC), <80%RH @ 120 ºF (48 ºC)
Operating temperature (C) (FCP-350-P)	0ºC - 49ºC
Operating temperature (F) (FCP-350-P)	32ºF - 120ºF
Operating temperature (C) (FCP-350-PTH)	0ºC - 47ºC
Operating temperature (F) (FCP-350-PTH)	32ºF - 117ºF
Storage temperature (C)	-30ºC - 60ºC
Storage temperature (F)	-22 F - 140 F
Air flow rating	0 - 4000 ft/min.
Smoke density range	1.82-3.16%/ft@ Open area
Nominal spacing (m)	9.1 m
Nominal spacing (ft)	30 ft
Usage	Indoor/dry

Note: The normal environment where these detectors are installed should be within the specified normal operating temperature limits.

Electrical

Operating voltage	8-35 VDC
Maximum voltage	42 VDC
Startup	25 seconds maximum
Standby current	59µA
Remote indicator current	8.0 mA (Internally Limited)

Alarm current	5 mA - 150 mA (limited by control panel)

Ordering information

FCP-350-P Smoke detector head, photoelectric
High quality Photoelectric Smoke Detector that can be used in all open areas where Photoelectric Smoke Detectors are required.
Order number **FCP-350-P | F.01U.397.731**

FCP-350-PTH Smoke detector head, photo/heat
High quality Photoelectric Smoke Detector that can be used in all open areas where Photoelectric Smoke Detectors are required.
Order number **FCP-350-PTH | F.01U.397.732**

Accessories

FCA-350-B6 Detector base, 6", 2-wire
Standard base for two-wire (12 VDC or 24 VDC system) applications. The base works with the FCH-350 and FCP-350 smoke detectors and heat detectors.
Order number **FCA-350-B6 | F.01U.397.737**

FCA-350-B6R12 Detector base, 6", 4-wire, 12V
Standard base for four-wire (12 VDC system) applications. The base works with the FCH-350 and FCP-350 smoke detectors and heat detectors.
Order number **FCA-350-B6R12 | F.01U.397.739**

FCA-350-B6R24 Detector base, 6", 4-wire, 24V
Standard base for four-wire (24 VDC system) applications. The base works with the FCH-350 and FCP-350 smoke detectors and heat detectors.
Order number **FCA-350-B6R24 | F.01U.397.738**

FCA-350-B4 Detector base, 4", 2-wire
Standard base for two-wire (12 VDC or 24 VDC system) applications. The base works with the FCH-350 (24V) and FCP-350 (12v/24V) smoke detectors and heat detectors.
Order number **FCA-350-B4 | F.01U.397.740**

FAA-350 Detector base, 6", POPIT
POPIT base for use with a 4-wire (2 data and 2 power), 12 VDC or 24 VDC compatible addressable base.
Order number **FAA-350 | F.01U.398.322 F.01U.417.436**

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