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.

## 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) | 0℃ - 49℃ |
| Operating temperature (F ) (FCP-350-P) | 32℉ - 120℉ |
| Operating temperature (C ) (FCP-350-PTH) | 0℃ - 47℃ |
| Operating temperature (F ) (FCP-350-PTH) | 32℉ - 117℉ |
| Storage temperature (C ) | -30℃ - 60℃ |
| Storage temperature (F ) | -22 F - 140 F |
| 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 |
| 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 require.
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 require.
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 applications. The base works with the FCP-350 series smoke detectors and FCH-350 heat detectors.
Order number **FCA-350-B4 | F.01U.397.740**

**FAA-350 Detector base, 6", POPIT**
Heat detector head 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**