COOPER Safety
Fire Systems

SIGNALING
LISTED
4AC5
FIRE ALARM
EQUIPMENT

Addressable Sensors

Addressable Sensor, Optical (UCAP320)

Addressable Sensor, Multi-Mode Heat (UCAH330)

Addressable Sensor, Opto-Heat (UCAPT340)

Overview

Photoelectric smoke sensor (opto) is suitable for most applications giving the fastest response to slow burning or smouldering fires which give rise to large visible smoke particles.

Opto-heat sensor will respond better to fast clean burning fires yet maintain the advantage of optical sensors when detecting smouldering fires. The thermal enhancement of this sensor allows a higher alarm threshold which provides a greater rejection of false alarms. The sensor will also give an alarm at temperatures above 135°F.

Rate of rise with fixed heat sensor settings will detect a rapid increase in temperature or temperatures above 135°F and should be used in environments where the ambient conditions might cause false alarms if smoke detection were to be used, for example where there is a high level of dust, fumes, steam or smoke under normal conditions.

Fixed heat sensors settings will detect temperatures above 135°F or 194°F and should be used in environments where the ambient conditions might cause false alarms if smoke detection were to be used, for example where there is a high level of dust, fumes, steam or smoke under normal conditions. For photoelectric and opto-heat operation the sensor automatically compensates for gradual increase in the scatter signal due to contamination e.g. dust build up.

Features

- Built-in short circuit isolators
- Stylish low profile design
- 360° viewable LED design
- Removable detector chamber
- Drift compensation

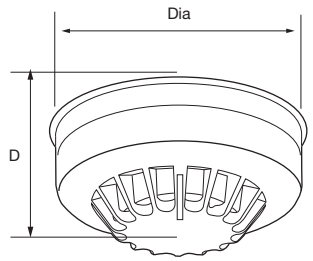
Benefits

- Plug and play no hard addressing required
- ‘Clean me’ feature means sensor can be cleaned on site using the JSB manual cleaning procedure
- The programmable heat sensor reduces the number of parts required in the system

Technical Specification

Code	UCAP320	UCAPT340	UCAH330
Description	Addressable Sensor, Optical	Addressable Sensor, Opto-Heat	Addressable Sensor, Multi-Mode Heat
Standards	UL268	UL268	UL521
Supply Ratings			
Working Voltage	18 V dc to 30 V dc	18 V dc to 30 V dc	18 V dc to 30 V dc
Voltage Waveform	Filtered dc +/- 1 V (max), ripple @120Hz	Filtered dc +/- 1 V (max), ripple @120Hz	Filtered dc +/- 1 V (max), ripple @120Hz
Standby Current	220 µA (average)	220 µA (average)	220 µA (average)
Alarm Current	5 mA (max)	5 mA (max)	5 mA (max)
Timings			
Start-up Time	2 seconds	2 seconds	2 seconds
Reset Time	2 seconds (max)	2 seconds (max)	2 seconds (max)
Sensitivity			
Sensitivity	2.55+/- 0.33%/ft	2.55+/- 0.33%/ft	N/A
Sensitivity Checker	Use No-Climb, TRUTEST, UL Listing 77TL	Use No-Climb, TRUTEST, UL Listing 77TL	Use No-Climb, TRUTEST, UL Listing 77TL
Heat Class			
Heat Element Rating	N/A	135°F	135°F ROR + Fixed, + Fixed 135°F Fixed, 194°F Fixed
Heat Detector Spacing	N/A	50ft (heat alone operation)	50ft
Mounting Position	Ceiling in open areas	Ceiling in open areas	Ceiling in open areas
Environmental			
Operating Temperature	32°F to 100°F	32°F to 100°F	32°F to 100°F / 32°F to 150°F (194°F setting)
Compatibility			
Compatibility Indentifier	W002	W002	W002
Compatible Bases	WBA or UCAB300	WBA or UCAB300	WBA or UCAB300
Suitable for use with	JSB UL fire systems	JSB UL fire systems	JSB UL fire systems

Dimensions



Description	Dia (mm)	D (excl base)	D (incl base)
Optical	101	33	45
Opto-Heat	101	43	55
Multi-Mode Heat	101	43	55

Product Codes

Code	Description
UCAP320	Addressable Sensor, Optical
UCAPT340	Addressable Sensor, Opto Heat
UCAH330	Addressable Sensor, Multi-Mode Heat, (Programmable as Rate of Rise 135°F or 194°F)