

UL Addressable Sensors



Left to right: Optical smoke sensor, photo-thermal sensor, heat sensor

Our UL range has multiple options for intelligent addressable sensors. All sensors are designed for optimum functionality in mid-large sized builds. They are all soft addressed and have integral short circuit isolators.

All UL addressable sensors are specifically designed for compatibility with the UL addressable sensor base (ULCAB300).

Details of the three sensors are included over the page.

Benefits

- Built-in short circuit isolators
- Stylish low profile design
- 360° viewable LED design
- Removable detector chamber
- Drift compensation
- Plug and play, no hard addressing required
- 'Clean me' feature means sensor can be cleaned on site using the Menvier manual cleaning procedure
- The programmable heat sensor reduces the number of parts required in the system

Optical smoke sensor

Suitable for most applications. Fastest response to slow burning or smouldering fires which give rise to large visible smoke particles.

Photo-thermal sensor

Responds quickly to fast clean burning fires. Maintains the advantage of optical sensors when detecting smouldering fires. The thermal enhancement of this sensor allows a higher alarm threshold, providing greater rejection of false alarms. The sensor will also give an alarm at temperatures above 135°F.

Heat Sensor

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.

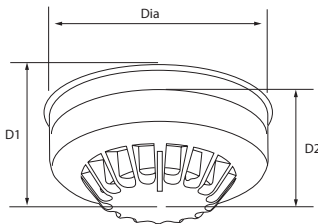
Fixed heat sensor settings will detect temperatures above 135°F or 194°F and should be used in environments where the ambient conditions might cause false alarms if smoke detection were to be used, for example where there is a high level of dust, fumes, steam or smoke under normal conditions.

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.

Technical Specification

Code	ULCAP320	ULCAPT340	ULCAH330
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
Physical			
Mounting Position	Ceiling in open areas	Ceiling in open areas	Ceiling in open areas
IP Rating	IP40	IP40	IP40
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 Identifier	W002	W002	W002
Compatible Bases	WBA or UCAB300	WBA or UCAB300	WBA or UCAB300
Suitable for use with	Eaton UL fire systems	Eaton UL fire systems	Eaton UL fire systems

Dimensions



Description	Diameter (mm) (incl base)	Depth (mm) (excl base)	Depth (mm) (incl base)
Optical	104	33	45
Photo-thermal	104	43	55
Heat	104	43	55

Catalogue numbers

Description	Code
Optical smoke sensor	ULCAP320
Photo-thermal sensor	ULCAPT340
Heat sensor	ULCAH330
Addressable sensor base	ULCAB300