EFM-X810, EFM-X830
Intelligent addressable sensors



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 (UCAB300) and UL addressable sounder base (ULMAS850).

Features and benefits

- Tri-colour LED for easy-to-understand local status signalling
- LED viewable from 360°
- Low profile design ensures suitability throughout your building
- Powerful algorithms provide high immunity to false alarm phenomenon
- Compatible with existing UCAB300 detector base and ULMAS850 sounder base
- Drift Compensation

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Technical specification

Model	EFM-X810	EFM-X830
Type	Analogue Addressable Photoelectric Smoke Multi-Criteria	Analogue Addressable Photoelectric Smoke & Heat Multi-Criteria
Base	UCAB300	UCAB300
Working Voltage	18– 30 VDC	18– 30 VDC
Voltage Waveform	Filtered DC ± 1vmax ripple at 120H	Filtered DC ± 1vmax ripple at 120H
Standby Current (Average)	235uA	235uA
Alarm Current (max)	10mA	10mA
Relay Current (max)	N/A	N/A
Start-up Time	2 seconds	2 seconds
Sensitivity	Nominal 3.16 +/- 2.11% /ft	Nominal 3.16 +/- 2.11% /ft
Sensitivity Checker	Use No-Climb model TruTest (UL Listed)	Use No-Climb model TruTest (UL Listed)
Heat Element Rating	N/A	140°F (60°C)
Reset Time (max)	2 seconds	2 seconds
Heat Detector Spacing	N/A	50 ft (heat alone operation)
UL Listed Ambient Temperature	32-100°F (0-37.8°C)	32-100°F (0-37.8°C)
Operating Temperature	14-122°F (-10-50°C)	14-122°F (-10-50°C)
Storage Temperature	-4°F to 131°F (-20 to 55°C)	-4°F to 131°F (-20 to 55°C)
Mounting Position	Ceiling and Walls in open areas	Ceiling and Walls in open areas
Material		
Compatibility Identifier	W002	W002
UL Listings	UL 268 7th Edition	UL 268 7th Edition UL 521 7th Edition
IP Rating	IP40	IP40
RAL Color	RAL9003	RAL9003

Short Circuit Isolation

Each of the detectors in this range contains an integral short circuit isolator, which operates between the -VE COM IN terminal and the -VE COM OUT terminal.

The isolator operates in conjuction with the Analogue Addressable Control Panel when a low parallel resistance fault of typically 200 is presented between the +VE and -VE of the loop wiring.

Short Circuit Isolation Data (Integral with each detector)	
Total Loop Resistance for correct operation of short circuit isolator	50 (max)
Parallel Fault Resistance to be seen at the Control Panel for isolators to open	200 (typ)
Continuous Current allowable through isolator	1A (max)
Isolator Resistance in closed state	0.1 (max)
Leakage Current into direct short circuit with isolator open	14mA (max)
Voltage at which isolator changes from open to closed or closed to open state	3.8V to 11V
Maximum switching current of isolator	1.5A

LEDs

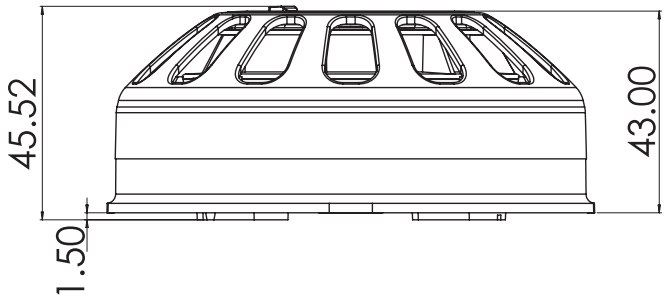
LED Indication	Status	Rectification action
None	Non-alarm normal state (with global flashing turned OFF)	Not Applicable
GREEN - flashing	Non-alarm normal state (with global flashing turned ON)	Not Applicable
AMBER- flashing	Device self-test fail	Check for a short-circuited connection / Replace detector
RED - flashing	Fire alarm – (with Flash mode ON at the panel for reduced load on the loop)	Follow site fire procedure.
RED - Continuously ON	Fire alarm– (with Flash mode OFF)	Follow site fire procedure.

Note: The LEDs flash every three seconds on Fast flash and every six seconds on Slow flash

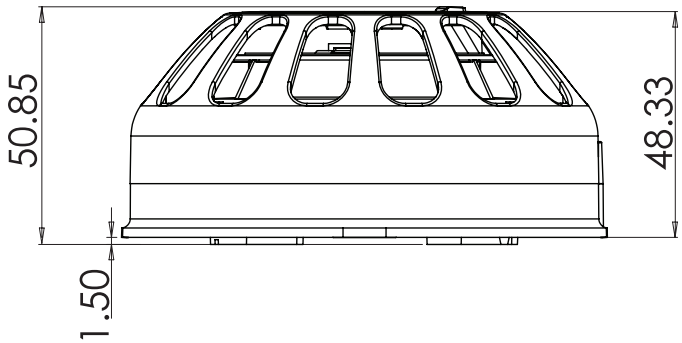
Catalogue numbers

Description	Model Ref.	Order Code
Photoelectric Smoke Multi-Criteria	EFM-X810	ULEFMDO10
Photoelectric Smoke & Heat Multi-Criteria	EFM-X830	ULEFMDOH30
Addressable sensor base	UCAB300	UCAB300
Addressable sounder base	ULMAS850	ULMAS850

EFM-X810 Dimensions



EFM-X830 Dimensions



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