



UL Systems

Underwriters Laboratories Inc. (UL) is an independent product safety certification organisation, established in 1894, to develop standards and test procedures for products, materials, components, assemblies, tools and equipment. Chiefly dealing with product safety it also evaluates and certifies the efficiency of a company's business processes through its magnificent system registration programs.

Since the launch of our UL Listed fire product range, several prestigious projects worldwide have been supplied including Hyatt Resort and Spa,

Shangri-la at the Fort and Times Square projects in South East Asia and several major projects in the Middle East including a major projects within the prestigious Riyadh Financial District in the Kingdom of Saudi Arabia.

The Eaton UL range is designed to provide a solution for all sizes of project, from the simple small stand alone system to the large multi panel networked system with PAVA and BMS integration.

Contents

UL listed fire systems range

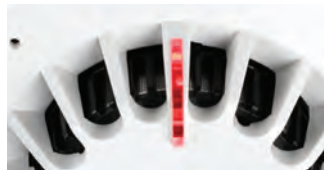
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ULCF3000 series

UL listed control panels



ULCF3000RM (wall mount red metal)



ULCF3000 (wall mount graphite)

The ULCF3000 series panels are UL listed, high specification, wall or rack mounted fire panels. Combining sophisticated functionality with simple operation and aesthetically pleasing design, the panels are available in a number of loop configurations. Each panel is networkable with up to 126 other Eaton UL fire panels.

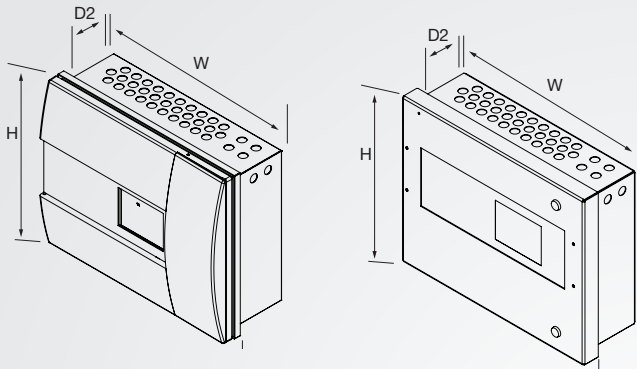
The control panel has the ability to support complex cause and effect programming. A wide range of user controllable functions make the system ideal for a diverse range of projects, from industrial applications through to large multi-site commercial developments.

Benefits

- Soft addressing
- Large versatile touchscreen user interface
- Integral printer (optional)
- Integral battery and power supply
- 2 x 12Ah batteries included
- Flexible distributed network capability
- Full range of compatible devices
- 4 notification appliance circuits (NACs) outputs
- 2 or 4 class A style 7 SLC loops
- PAS (Positive Alarm Sequence)



Dimensions



Description	H (mm)	W (mm)	D1 (mm)	D2 (mm)
ULCF3000	397	497	75	130
ULCF3000RM	398	505	48	118



Compatible repeater panels

The ULCF3000 has both a standard and a touchscreen repeater panel available. Ideal for larger sites, the repeater allows you to display the system information from multiple locations.



Features

	ULCF3000PRG	ULCTPR3000
Active or passive option	✗	✓
No programming required	✓*	✓
Multi language capability	✗	✓
Allows networking with other Eaton fire panels	✗	✓
Integral power supply	✓	✓

*Except local text information



Catalogue numbers

Description	Code
2 loop panel	ULCF30002G
4 loop panel	ULCF30004G
2 loop panel, integral printer	ULCF30002GP
4 loop panel, integral printer	ULCF30004GP
2 loop panel, network card	ULCF30002GNC
4 loop panel, network card	ULCF30004GNC
2 loop panel, integral printer, network card	ULCF30002GPNC
4 loop panel, integral printer, network card	ULCF30004GPNC
2 loop panel, red metal box	ULCF30002GRM
4 loop panel, red metal box	ULCF30004GRM
2 loop panel, integral printer, red metal box	ULCF30002GPRM

Description	Code
4 loop panel, integral printer, red metal box	ULCF30004GPRM
2 loop panel, network card, red metal box	ULCF30002GNCRM
4 loop panel, network card, red metal box	ULCF30004GNCRM
2 loop panel, integral printer, network card, red metal box	ULCF30002GPNCRM
4 loop panel, integral printer, network card, red metal box	ULCF30004GPNCRM
Rack mounted 2 loop panel	ULR3000L2
Rack mounted 4 loop panel	ULR3000L4
Rack mounted 2 loop panel c/w network card	ULR3000L2NC
Rack mounted 4 loop panel c/w network card	ULR3000L4NC
Loop connected repeater panel	ULCF3000PRG
Touchscreen network repeater panel	ULCTPR3000

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.

Addressable sensor base UCAB300



Typical applications:

Specifically designed for use with all of our UL addressable sensors, the UCAB base will be used in all builds.

Optical smoke sensor ULCAP320



Typical applications:

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

Photo-thermal sensor ULCAPT340



Typical applications:

Responds quickly to fast clean burning fires. Maintains the advantage of optical sensors when detecting smouldering fires.

Heat sensor ULCAH330



Typical applications:

Environments where the ambient conditions might cause false alarms with smoke detectors. Examples include areas with high levels of dust or fumes.



Sensor detail

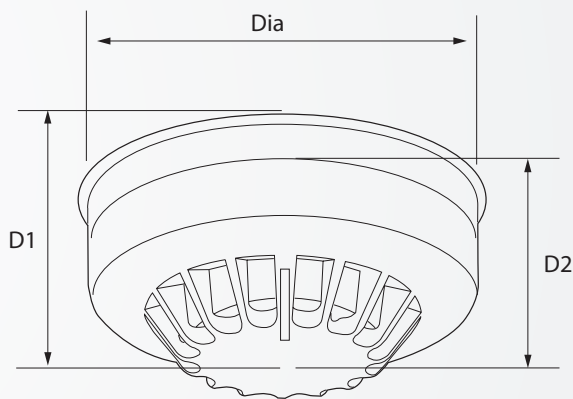


Addressable base detail

Performance

Heat Class	ULCAP320	ULCAPT340	ULCAH330
Heat element rating	N/A	135°F	ROR + Fixed 135°F, Fixed 135°, Fixed 194°F
Heat detector spacing	N/A	50ft (heat alone operation)	50ft
Heat class	N/A	A2S	A2R

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	UCAB300



Detectors

Our UL range has multiple options for conventional detectors. All detectors have a removable detector chamber and drift compensation. The range of detectors for different applications allow for all build requirements to be met.

As there is no UL certified conventional panel a ULMIU872 micro interface (page 55) is required in conjunction with a UL intelligent addressable panel to use conventional detectors.

Optical smoke detector UCPD-2W



Typical applications:

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

Photo-thermal detector UCPT-2W



Typical applications:

Responds quickly to fast clean burning fires. Maintains the advantage of optical sensors when detecting smouldering fires.

Fixed heat detector (135°F) UCHT-2W



Typical applications:

Environments where the ambient conditions might cause false alarms with smoke detectors. Examples include areas with high levels of dust or fumes.

Additional heat detector options

Code

UCHTI-2W:
Fixed heat, 194°F detector

UCHR-2W:
Rate of rise & fixed heat 135°F

UCHRI-2W:
Rate of rise & fixed heat 194°F

Performance

Heat class	UCPD-2W	UCPT-2W	UCHT-2W	UCHTI-2W	UCHR-2W	UCHRI-2W
Heat element rating	N/A	135°F	135°F	194°F	135°F	194°F
Heat detector spacing	N/A	50ft (heat alone operation)	50ft	50ft	50ft	50ft
Mounting position	Ceiling in open areas	Ceiling in open areas	Ceiling in open areas	Ceiling in open areas	Ceiling in open areas	Ceiling in open areas

Conventional detector base CB2E

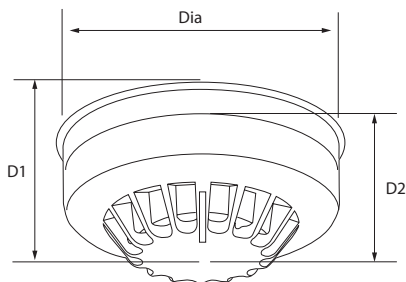


Typical applications:

The CB2E has been specifically designed for compatibility with our UL range of conventional detectors. It can be used in all builds with conventional detectors.



Dimensions



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

Catalogue numbers

Description	Code
2 wire detector, optical	UCPD-2W
2 wire detector, opto-heat	UCPT-2W
2 wire detector, fixed heat 135°f	UCHT-2W
2 wire detector, fixed heat 194°f	UCHTI-2W
2 wire detector, rate of rise and fixed heat 135°f	UCHR-2W
2 wire detector, rate of rise and fixed heat 194°f	UCHRI-2W
Standard detector base	CB2E

Horns and strobes

Our UL range incorporates a variety of audio and visual notification devices. Each device has up to 48% savings in current draw compared to similar products. The whole range is easy to install and has voltage test points for quick troubleshooting and easy spot checking, saving time on both installation and maintenance.

Wall mount horn HNR



Typical applications:

The horns are ideal for retrofit jobs, limited space environments and pre-existing wire configurations.

Ceiling mount horn HNWC



Typical applications:

The horns are ideal for retrofit jobs, limited space environments and pre-existing wire configurations.

Wall mount horn strobe/synchronised strobe HSR/STR



Typical applications:

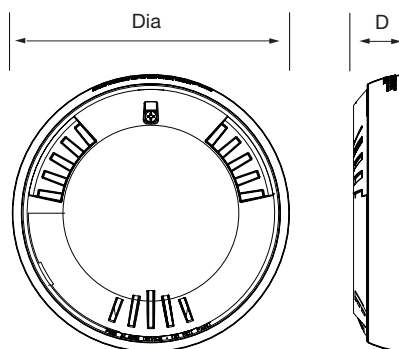
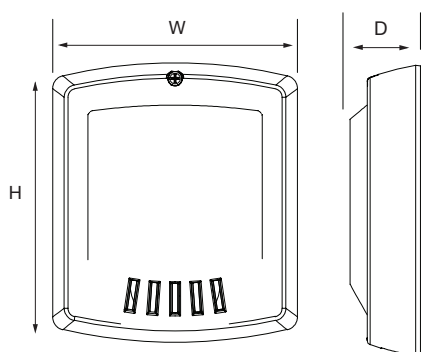
With the range of settings for both audio and visual purposes, these products are effectively 9 models in 1 appliance. With this functionality, and both ceiling and wall mount options available, it will meet almost any build requirements.

The synchronised option enhances both the sound and light output by keeping the outputs of multiple devices in sync.

Ceiling mount horn strobe/synchronised strobe HSWC/STWC



Dimensions



Description	H (mm)	W (mm)	D (mm)
Wall mount horn HNR	133	116	56
Wall mount horn strobe/ synchronised strobe HSR/STR	131	131	110

Description	Diameter (mm)	Depth (mm)
Ceiling mount horn HNWC	166	34
Ceiling mount horn/ synchronised strobe HSWC/STWC	166	34

Wall mount outdoor synchronised strobe
RSSWP-2475W-FR



Ceiling mount outdoor synchronised strobe
RSSWP-2475C-FW



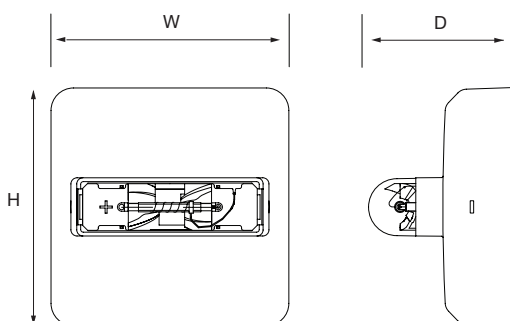
Typical applications:

The outdoor synchronised strobes are UL certified to meet adverse weather conditions. They are perfect for builds where outdoor indication is required.

These units use a universal, common mounting base making them ideal for retrofit jobs, limited space environments and pre-existing wire configurations.



Dimensions



Description	H (mm)	W (mm)	D (mm)
RSSWP*	131	131	110

*Both wall mount and ceiling mount variants

Catalogue Numbers

Description	Code
Wall mount horn	HNR
Ceiling mount horn	HNWC
Wall mount horn strobe	HSR
Ceiling mount horn strobe	HSWC
Wall mount synchronised strobe	STR
Ceiling mounted synchronised strobe	STWC
Wall mount outdoor synchronised strobe	RSSWP-2475W-FR
Ceiling mount outdoor synchronised strobe	RSSWP-2475C-FW
Exposed conduit, surface mount back box (RED)	WPSBB
Concealed conduit surface mount back box (RED)	WPSBB + WPKIT

Pull stations

The addressable pull stations are constructed of high quality, die cast metal for long lasting performance. The range consists of the UL listed MPS range of pull stations and the UL listed fast response input initiating module (ULMCIM-C).

Single action addressable pull station

UMPS-100/
UMPS-100WP



Typical applications:

Indoor/weatherproof pull station for use with addressable systems (UMPS-100/UMPS-100WP).

A dual action model is also available (UMPS-200, not shown), where the push bar rotates inward allowing the pull handle to be grasped in a one handed motion.

Single action conventional pull station

SG42BK2



Typical applications:

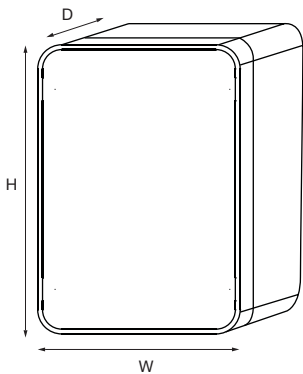
Cost effective conventional version of the single action pull station, must be used in conjunction with ULMIU872.

Back box ordered separately.



Pull station detail

Dimensions



H (mm)	W (mm)	D (mm)
118	80	80

Catalogue numbers

Description	Code
Single action pull station, supplied with back box (addressable)	UMPS-100
Weatherproof single action pull station	UMPS-100WP
Double action pull station	UMPS-200
Micro zone monitor unit	ULMIU872
Micro single channel input unit (recognised as callpoint)	ULMCIM-C
Conventional single action pull station (back box ordered separately)	SG42BK2
Conventional double action pull station (back box ordered separately)	SG42BK1
Back box for conventional, surface mounting	SGB32S
Back box for conventional, weatherproof	SGB-32C



Interfaces

We supply an extensive range of interfaces to support our UL control panels. Interfaces allow for a wide variety of installations to be simplified without the use of specialist or customised equipment. For assistance deciding which interfaces will benefit you the most, contact our technical support team; techsupport@cooperfire.com

4 Way Sounder Controller Unit ULCSC354



Typical applications:

The unit connects a zone of suitable conventional detectors and a separate zone of conventional callpoints (if required) to an addressable panel.

It allows for easier connection to existing conventional detection zones, as long the devices used are compatible.

Zone monitor unit ULCZMU352



Typical applications:

The unit connects a zone of suitable conventional detectors and a separate zone of conventional callpoints (if required) to an addressable panel.

It allows for easier connection to existing conventional detection zones, as long the devices used are compatible.

Shop monitor unit ULCSUM355



Typical applications:

The shop monitor unit is designed to allow small units with conventional fire systems to be fully integrated with a main intelligent addressable fire system.

It is ideal for connecting individual shop units into a main shopping centre system.

Spur isolator unit ULCSI350



Typical applications:

The spur isolator unit enables a spur of intelligent addressable devices to be connected to a main analogue loop. This simplifies the installation of remote parts of buildings or system extensions.

3 channel I/O unit ULCIO351



Typical applications:

The 3 channel input/output unit enables simple interfacing between the fire system and other equipment such as nurse call systems or access control systems. The inputs are fully monitored for open and short circuits.

230V ac relay unit ULCMIO353



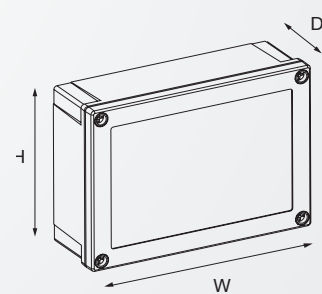
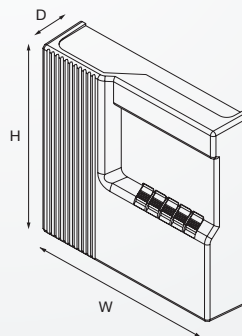
Typical applications:

Enables simple interfacing between the fire system and other equipment such as nurse call systems or access control systems.

The ability of the output unit to switch mains also makes the unit ideal for plant control or mains powered door holders.

The input is monitored for open and short circuits so can be used for fire input applications such as monitoring sprinkler flow switches.

Dimensions



Description	H (mm)	W (mm)	D (mm)
Interface units	129	180	60
4 way sounder controller unit	300	300	74

Micro interfaces

Whilst our standard UL interfaces are designed to be installed in the position required on the loop, our range of micro interfaces can sit within a panels' enclosure.

Micro single channel output units ULMCOM/ULMCOM-S



Typical applications:

The Micro Single Channel Output Unit (ULMCOM) is suitable for switching low voltage (24V dc at 1A maximum), via a set of non latching relay contacts.

It is also suitable for switching HVAC control circuits, plant shutdown control circuits, fire door closure etc.

The ULMCOM-S is identified by the panel as a sounder.

Micro single channel input units ULMCIM/ULMCIM-C



Typical applications:

The Micro Single Channel Input Unit (ULMCIM) is suitable for monitoring a set of normally open, volt free contacts such as sprinkler system flow switches and auxiliary panel fire/fault signals. Other examples include non-fire input signals such as flow valve open contacts, generator start up, fire door closed etc.

The ULMCIM-C is identified by the panel as a call point and is designed for use with pull stations.

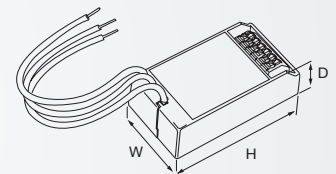
Micro zone monitor unit ULMIU872



Typical applications:

The Micro Zone Monitor Unit (ULMIU872) is suitable for monitoring a zone of up to 20 UL approved conventional detectors.

Dimensions



H (mm)	W (mm)	D (mm)
65	35	18.5

Please be aware, we offer an enclosure for our micro interfaces, see p35.

Catalogue numbers

Description	Code
4 way sounder controller unit	ULCSC355
Zone monitor unit	ULCZMU352
Shop monitor unit	ULCSUM355
Spur isolator unit	ULCSI350
3 Channel input/output unit resets on reset	ULCIO351
3 Channel input/output unit rests on silence alarms	ULCIO351S
120V/230V ac relay u.nit	ULCMIO353

Description	Code
Micro zone monitor unit	ULMIU872
Micro single channel output unit (recognised as output unit)	ULMCOM
Micro single channel output unit (recognised as sounder)	ULMCOM-S
Micro single channel input unit (recognised as input unit)	ULMCIM
Micro single channel input unit (recognised as callpoint)	ULMCIM-C
Mini module box unit (empty box)	ULBU