



Cooper Fire Systems

UL Listed Range

**COOPER** Safety
Fire Systems



UL Listed Fire Detection Equipment



Underwriters Laboratories Inc. (UL) is an independent product safety certification organization, 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 companies business processes through its management system registration programs.

Since the launch of Cooper Safety Fire Systems UL Listed intelligent addressable 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 Cooper 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.

The Benefits

Scalable Solution

With all products within the Cooper Safety Fire Systems UL Listed range being designed to operate as a complete system from a single manufacturer, Cooper is able to offer greater flexibility in design.

Cable Saving

By utilising a 'ring and spur' topology for the system loops and a dual redundant topology for the network, together with a distributed network design, cable and installation costs are minimised.

Highly Integrated

By offering system designers a wide range of interfaces both for the main system and the network system, integration of external equipment and the ability to integrate various BMS systems is easily achieved.

Cause and Effect

The Cooper Safety Fire Systems range of UL Listed control panels support complex cause and effect programming and offer a wide range of user controllable functions making the system ideal for a diverse range of projects from industrial applications through to large multi site commercial developments.

Site Proven

With many projects sites successfully installed since the UL Listed product range launch you can be sure of the systems reliability and longevity, this together with the simplicity of system upgrading assures peace of mind.



Panels

Cooper Safety Fire Systems offer a range of high specification intelligent addressable, wall or rack mounted, UL Listed control panels available in various loop configurations. They combine sophisticated functionality with simple, end user operation and aesthetically pleasing design. The control panels have the ability to support complex cause and effect programming and offer a wide range of user controllable functions which make the system ideal for a diverse range of projects, from industrial applications through to large multi site commercial developments.

Detection and Pull Stations

To compliment the range of sophisticated UL Listed control panels Cooper Safety Fire Systems have developed a comprehensive product range to provide a complete system design solution. Included in this range are UL Listed intelligent addressable sensors, pull stations and ancillary products. Also included within the UL range are conventional pull stations and conventional detectors.

Interfaces

An extensive range of interfaces are available to support the Cooper Safety Fire Systems range of UL intelligent addressable control panels, providing solutions for most design requirements.

Audio Visual Units - Cooper Wheelock® Exceder™

The Cooper Wheelock® Exceder™ horn strobes feature a sleek modern design that will please building owners with reduced total cost of ownership. Installers will benefit from their comprehensive feature list, including the most candela options in one appliance, low current draw, no tools needed for setting changes, voltage test points, 12/24V dc operation, universal mounting base and multiple mounting options for both new and retrofit construction. The Cooper Wheelock® Exceder™ Series incorporates high reliability and high efficiency optics to minimize current draw allowing for a greater number of appliances on the notification appliance circuit. All strobe models feature an industry first of 8 candela settings on a single appliance.



UL Listed Product Range Contents



Page 5
Control Panel
ULCF3000 Range



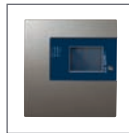
Page 21
Remote Indicator
CIR301



Page 7
Rack Mount Control Panel
and Rack Unit
ULR3000



Page 23
Pull Stations
UMPS-100 / UMPS-200
SG42BK1 / SG42BK2



Page 9
Touch-Screen Repeater Panel
ULCTPR3000



Page 25
Sounder Base
ULCAS380



Page 11
Passive Repeater Panel
ULCF3000PR



Page 27
Horns
HNR / HNWC



Page 13
Intelligent Addressable Sensors
ULCAPT340 / ULCAP320 /
ULCAH330



Page 29
Horn Strobes
HSR / HSWC



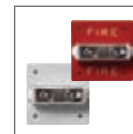
Page 15
Intelligent Addressable
Standard Sensor Base
UCAB300



Page 31
Internal Strobes
STWC / STR



Page 17
Conventional Detectors
UCPD-2W / UCPT-2W /
UCHT-2W / UCHTI-2W /
UCHR-2W / UCHRI-2W



Page 33
External Strobes
RSSWP-2475C-FW /
RSSWP-2475W-FR



Page 19
Conventional Standard
Detector Base
CB2E



Page 35
Standard Interfaces



Page 47
Micro Interfaces

ULCF3000 Range



ULCF3000 / ULCF3000RM - Intelligent Addressable Control Panels

Overview

The Cooper ULCF3000 is a high specification intelligent addressable, wall or rack mounted, UL Listed control panel available in various loop configurations. It combines sophisticated functionality with simple operation and aesthetically pleasing design.

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

The ULCF3000 uses soft addressing to minimise installation time and remove the potential for error associated with manual addressing. It can operate as a stand alone panel or as part of a networked system, and has powerful programming options that allow configurable control over whether messages from specific panels are transmitted around the network or remain local.

Each of the system components have been specifically designed to operate as part of a ULCF3000 UL Listed system providing assurance that the panel, detectors, interfaces and the ancillaries are all fully compatible with each other and that the full range of system functionality is supported by each device.

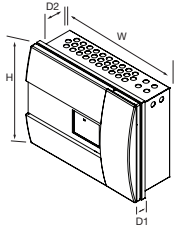
Features

- Large versatile touch-screen user interface
- 2 or 4 Class A Style 7 SLC loops
- Event history buffer (9,999 events) with date/time stamp
- 4 Notification appliance circuit (NAC's) outputs
- Dedicated alarm, trouble, AC trouble relays
- Integral short circuit isolators
- Up to 200 addresses per loop
- Full network capability up to 126 panels

Benefits

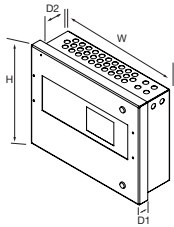
- Supports a comprehensive range of soft addressing modules and devices for greater flexibility in design
- Menu driven graphical user interface for ease of operation
- Reduced commissioning time through soft addressing and auto learn functions
- Programming and trouble shooting time minimised by using a range of features such as auto config, walk test, system details menu's

Dimensions - Plastic Front



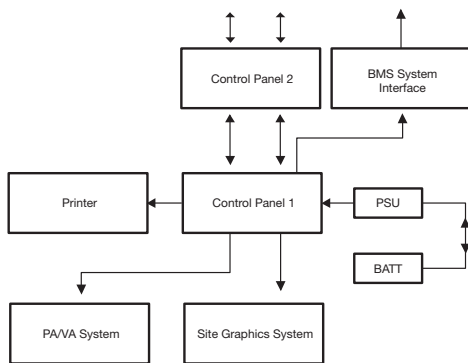
H (mm)	W (mm)	D1 (mm)	D2 (mm)
397	497	75	130

Dimensions - Metal Front



H (mm)	W (mm)	D1 (mm)	D2 (mm)
398	505	48	118

System Block Diagram



Technical Specification

Code	ULCF3000 / ULCF3000RM
Description	UL Intelligent Addressable Control Panel
Standards	UL864 9th edition
Primary Operating Supply	120V ac/240V ac, 60Hz, 2.0A supervised
Secondary Operating Supply	
Battery Voltage	24V dc
Battery Charge Current	1.0A (max)
Battery Derating Factor	0.1
Battery Capacity Supervised	12Ah (max)
Notification Appliance Circuits Class B, Style Y, Sounder Group 1, Sounder 1, Sounder Group 1, Sounder 2, Sounder Group 2	
Output Voltage	24V dc
Output Current	0.75A (max)
Line Impedance	50Ω
	When powered by 240V ac, the maximum current of 3.0A is shared between these circuits
	When powered by 120V ac, the maximum current of 2.25A is shared between these circuits
	Supervised, power limited, regulated
Notification Appliance Circuits Class B, Style Y, SYNC MODULE. NAC1, NAC2	
Output Voltage	24V dc
Output Current	0.5A (max)
Line Impedance	50Ω (max)
	The maximum current of 0.5A is shared between these circuits
	Supervised, power limited, regulated
Alarm, Trouble Contacts. Relay Expansion	
Unity Power Factor	30V dc
	For connection to power limited sources only
Aux Relay (AC Trouble) Contacts	
Unity Power Factor	30V dc, 1A
	For connection to power limited sources only
Signaling Line Circuit Style [7] Class [A] - (Addressable Loop)	
Rated Voltage	24V dc
Maximum Current	500mA
Line Impedance	50Ω (max)
	Supervised, power limited
Network SLC	
Voltage	5V dc
Current	100mA (max)
Line Impedance	50Ω (max)
	Power limited
	Limited to same enclosure installations
Compatibility	
Suitable for use with	Cooper UL Fire Systems

Product Codes

Code	Description
ULCF30002G	2 Loop Panel
ULCF30004G	4 Loop Panel
ULCF30002GP	2 Loop Panel, Integral Printer
ULCF30004GP	4 Loop Panel, Integral Printer
ULCF30002GNC	2 Loop Panel, Network Card
ULCF30004GNC	4 Loop Panel, Network Card
ULCF30002GPNC	2 Loop Panel, Integral Printer, Network Card
ULCF30004GPNC	4 Loop Panel, Integral Printer, Network Card
ULCF30002GRM	2 Loop Panel, Red Metal Box
ULCF30004GRM	4 Loop Panel, Red Metal Box
ULCF30002GPRM	2 Loop Panel, Integral Printer, Red Metal Box
ULCF30004GPRM	4 Loop Panel, Integral Printer, Red Metal Box
ULCF30002GNCRM	2 Loop Panel, Network Card, Red Metal Box
ULCF30004GNCRM	4 Loop Panel, Network Card, Red Metal Box
ULCF30002GPNCRM	2 Loop Panel, Integral Printer, Network Card, Red Metal Box
ULCF30004GPNCRM	4 Loop Panel, Integral Printer, Network Card, Red Metal Box

ULR3000 Range and Rack Unit



ULR3000 Range - Rack Mounted Control Panels

Overview

The ULR3000 range of 19" rack mounted, fully modular control panels, consists of a number of different plug in modules, each of which is dedicated to a particular function within the complete control panel.

These modules provide the functions of fire detection, alarm signalling, PA/VA integration plant control etc.

The ULR3000 range of rack mounted control panels have the capability to be networked to other Cooper intelligent addressable panels, repeaters and mimic panels as well as an alarm management graphic system, providing the perfect solution for all medium and large fire detection systems.

This flexible system allows for modules to be added or removed without major modification, even after the system commissioning has taken place.

The floor rack unit (ULRACK) is constructed from mild steel and is used to house the ULR3000 control panels.

Features

- Large versatile touch-screen user interface
- 2 or 4 Class A Style 7 SLC loops
- Event history buffer (9,999 events) with date/time stamp
- 4 Notification appliance circuits (NAC's) outputs
- Dedicated alarm, trouble, AC trouble relays
- Integral short circuit isolators
- Up to 200 addresses per loop
- Full network capability up to 126 panels

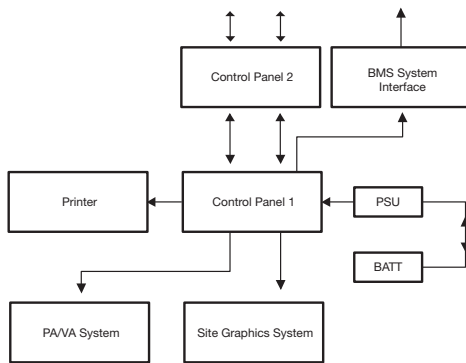
Benefits

- Supports a comprehensive range of soft addressing modules and devices for greater flexibility in design
- Menu driven graphical user interface for ease of operation
- Reduced commissioning time through soft addressing and auto learn functions
- Programming and trouble shooting time minimised by using a range of features such as auto config, walk test, system details etc

Floor Rack Unit (ULRACK)

Code		ULRACK			
Description	Floor Rack Unit				
Standards	EMC: EN55103-1 & EN55103-2 LVD: EN60065 Product Family: UL Listed				
Physical					
Construction	Mild Steel				
Colour	Light Grey				
Dimensions (H x W x D)	H	W	D		
18u	990mm	600mm	800mm		
27u	1360mm	600mm	800mm		
39u	1930mm	600mm	800mm		
42u	2070mm	600mm	800mm		
45u	2205mm	600mm	800mm		
Weight					
18u	55kg				
27u	85kg				
39u	115kg				
42u	145kg				
45u	150kg				

Standard Connection



Technical Specification

Code		ULR3000 Range	
Description	UL Intelligent Addressable Control Panel (Rack Mounted)		
Standards	UL864 9th edition		
Primary Operating Supply	120V ac/240V ac, 60Hz, 2.0A supervised		
Secondary Operating Supply			
Battery Voltage	24V dc		
Battery Charge Current	1.0A (max)		
Battery Derating Factor	0.1		
Battery Capacity Supervised	12Ah (max)		
Notification Appliance Circuits Class B, Style Y, Sounder Group 1, Sounder 1, Sounder Group 1, Sounder 2, Sounder Group 2			
Output Voltage	24V dc		
Output Current	0.75A (max)		
Line Impedance	50Ω		
When powered by 240V ac, the maximum current of 3.0A is shared between these circuits			
When powered by 120V ac, the maximum current of 2.25A is shared between these circuits			
Supervised, power limited, regulated			
Notification Appliance Circuits Class B, Style Y, SYNC MODULE. NAC1, NAC2			
Output Voltage	24V dc		
Output Current	0.5A (max)		
Line Impedance	50Ω (max)		
The maximum current of 0.5A is shared between these circuits			
Supervised, power limited, regulated			
Alarm, Trouble Contacts. Relay Expansion			
Unity Power Factor	30V dc		
For connection to power limited sources only			
Aux Relay (AC Trouble) Contacts			
Unity Power Factor	30V dc, 1A		
For connection to power limited sources only			
Signaling Line Circuit Style [7] Class [A] - (Addressable Loop)			
Rated Voltage	24V dc		
Maximum Current	500mA		
Line Impedance	50Ω (max)		
Supervised, power limited			
Network SLC			
Voltage	5V dc		
Current	100mA (max)		
Line Impedance	50Ω (max)		
Power limited			
Limited to same enclosure installations			
Compatibility			
Suitable for use with	Cooper UL Fire Systems		

Product Codes

Code	Description
ULR3000L2	2 Loop Control Panel (rack mount)
ULR3000L4	4 Loop Control Panel (rack mount)
ULR3000L2NC	2 Loop Control Panel, c/w Network Card (rack mount)
ULR3000L4NC	4 Loop Control Panel, c/w Network Card (rack mount)
ULRACK1924	19 Inch Floor Rack Unit (height 24" - 10 RMU)
ULRACK1930	19 Inch Floor Rack Unit (height 30" - 13 RMU)
ULRACK1944	19 Inch Floor Rack Unit (height 44" - 21 RMU)
ULRACK1954	19 Inch Floor Rack Unit (height 54" - 27 RMU)
ULRACK1979	19 Inch Floor Rack Unit (height 79" - 41 RMU)
1UPLATE	1 Unit Blanking Plate
2UPLATE	2 Unit Blanking Plate
3UPLATE	3 Unit Blanking Plate
6UPLATE	6 Unit Blanking Plate
ECRACKPACK43	Pack of 4 Fixings (1 required per blanking plate)

Touch-Screen Repeater Panel



ULCTPR3000 - Touch-Screen Repeater Panel

Overview

The ULCTPR3000 touch-screen repeater panel provides sophisticated "touch-screen" functionality yet achieves a simple end user interface operation within a compact panel design.

The ULCTPR3000 is designed to work with all UL Listed Cooper intelligent addressable control panels as a network repeater via its integral dual redundant network card.

Like the main control panel the repeater is designed to have all the end user control via its touch-screen display. As well as the ability to operate in multi-language mode providing the end user the ability to use the panel in his own language.

This touch-screen repeater is easy to install and commission. All text is transmitted via the network and is automatically updated, therefore no programming is required.

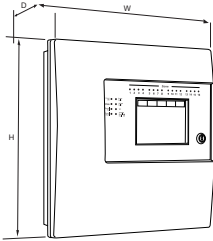
Features

- Large versatile touch-screen user interface
- Plug and play. All information is downloaded through the network
- Integrated network capability allows networking with the latest Cooper range of intelligent addressable control panels
- Multi-language capability
- PSU approved to UL864 9th Edition
- Up to 126 repeaters can be connected to the network
- Programmable as an active or passive repeater
- Dual redundant network card to enhance system integrity

Benefits

- Requires no programming (plug and play)
- System integrity, fire alarm system continues to operate even if there is a short circuit or open joint on cable
- Easy to change the language to suit the operator

Dimensions



	H (mm)	W (mm)	D (mm)
Panel	375	357	95
Cutout	345	325	50

Technical Specification

Code	ULCTPR3000
Description	Touch-Screen Repeater Panel
Standards	UL864 9 th edition, NFPA 70-72
System Indicators	
LED's	Power on, Alarm, General Trouble, General Supervisory, Power Trouble, System Trouble, Test, NAC Trouble.
Mains Input, Supervised, Power Limited	
Voltage	120V ac to 240V ac, 60Hz
Current	100mA
Network SLC	5V dc, 11mA (max)
Line impedance	50Ω (max)
Batteries	
Batteries	2V dc x 12V dc, 7Ah, 0.1 derating
Battery Charge Current	1.0A
Standby Period	24 hours + 30 min. alarm
Programmable Relay	
Programmable Relay (Fire)	30V dc, 1A, resistive
Download Comms	
Download Comms	RS232 port
Environmental	
Operating Temperature	0°C to 49°C
Humidity (Non Condensing)	0 to 93 %RH
Physical	
Dimensions (H x W x D)	375mm x 357mm x 95mm
Weight	9kg (with batteries) 4kg (w/o batteries)
Ingress Protection	IP40
Construction	PC/ABS, UL94 5VA rating
Colour	Graphite
Cable Entry	11 x 20mm knockouts top of back box
Compatibility	
Suitable for use with	Cooper UL Fire Systems

Device Overview

- Panel is connected to the network as part of a networked system.
- Supplied with integral power supply and standby battery.
- Touch-screen end user interface.

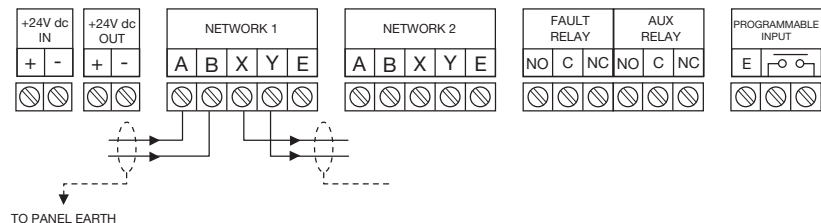
Installation

- Wall mounted by means of 4 fixing screws.
- Cable entry at top or back.
- 11 top entry gland holes.
- Separate rear access cable entry facility.
- Local mains supply required.
- Must be network connected.

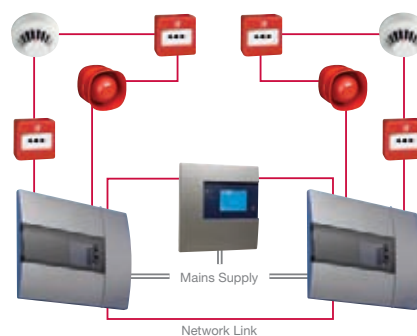
System Functionality

- Panel operates in either normal, supervisor or engineer mode.
- Supervisor and engineer modes are accessed via 4 digit pass codes.
- Supervisor mode allows full system operation.
- Engineer mode enables password to be changed if required and allows access to text download menu.
- When connected to network, all text is transmitted via network, changes to other network panels update automatically.

Standard Connection



Network Connected



Product Codes

Code	Description
ULCTPR3000	Intelligent Addressable Touch-Screen Repeater Panel

Passive Repeater Panel



ULCF3000PR - Passive Repeater Panel

Overview

The ULCF3000PR passive repeater panel is a cost effective repeater which is programmed via its 2 x 40 backlit LCD informative display to be either fully passive (display only) or semi passive (restricted system control) and can be connected to either the panel loop or the system network. If network connected an additional dual redundant network card will be required.

When loop connected the passive repeater panel will display the system information text of the connected control panel and will provide a fire indication, with panel number, of any connected network control panel that has fire activation.

The passive repeater, if loop connected will require programming with local test information.

In addition to the passive repeater panels menu driven 2 x 40 backlit LCD display, the panel also provides further system status information via 6 supervisory LED's (power on, alarm, trouble, supervisory, test in progress, and scroll).

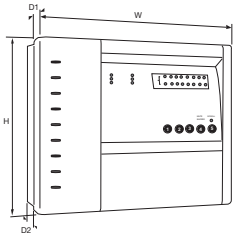
Features

- 2 x 40 Backlit LCD display
- 6 Supervisory LED's
- Fully passive
- Maximum of 20 repeaters can be connected to a loop
- Can be surface or semi-recessed mounted

Benefits

- Compact economy panel
- Menu driven LCD display
- Simple connection to panel SLC circuit reduces wiring and time
- Distance run up to 2kms from control panel without additional cable and equipment, saving cost

Dimensions



H (mm)	W (mm)	D1 (mm)	D2 (mm)
270	332	45	47

Installation

1. Wall mounted by means of 4 fixing screws.
2. Cable entry at top or back.
3. 12 top entry gland holes with push out blanking plugs.
4. 4 separate rear access cable entry facilities.
5. Local mains supply required.

System Functionality

1. Panel operates in either normal, supervisor or engineer mode.
2. Supervisor and engineer modes are accessed via 4 digit pass codes.
3. Supervisor mode allows silence, evacuate and reset commands to be sent to host panel (loop connected) or to network (network connected).
4. Engineer mode enables password to be changed if required and allows access to text download menu.
5. When connected to the network, all text is transmitted via the network, changes to other network panels update automatically.
6. When connected to a panel intelligent addressable loop, text for host panel has to be programmed in to the repeater.
7. Zonal fire and fault indication is by means of 2 x 40 character LCD display.

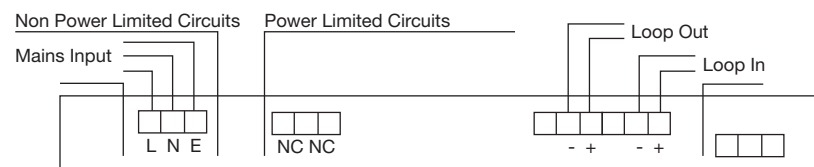
Device Overview

1. Panel can be connected to either the detection loop of a single panel or to a network as part of a networked system. (requires dual channel network card)
2. Supplied with integral power supply and standby battery.

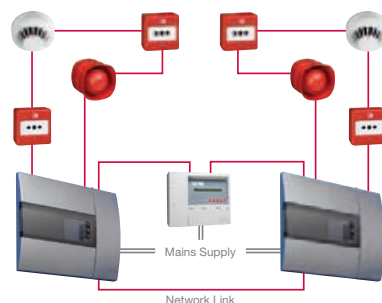
Technical Specification

Code	ULCF3000PR
Description	Passive Repeater Panel
Standards	UL864 9 th edition
System Indicators	
LED's	Power on, Alarm, Trouble, Test, Supervisory, Scroll LED's
Mains Input, Supervised	
Voltage	120V ac to 240V ac, 60Hz
Current	35mA
SLC Field Wiring	
Current	0.354mA
Wiring Gauge	12 (max) AWG
Wiring Class	Class A Style 7
Ground Fault	0.1Ω
Supervisory, Power Limited	Yes
Line Impedance	50Ω (max)
Batteries	
Batteries	1x12V dc, 3.2Ah, 0.1 derating
Battery Charge Current	0.4A
Standby Period	24 hours + 30 min alarm
Download Comms	RS232 port
Environmental	
Operating Temperature	0°C to 49°C
Humidity (Non Condensing)	0 to 93 %RH
Physical	
Dimensions (H x W x D)	270mm x 332mm x 92mm
Weight	3.6kg (with batteries)
Ingress Protection	IP30
Construction	PC/ABS, UL94 5VA rating
Colour	Light Grey or Graphite
Cable Entry	12 x 20mm knockouts top of back-box
Compatibility	
Suitable for use with	Cooper UL Fire Systems

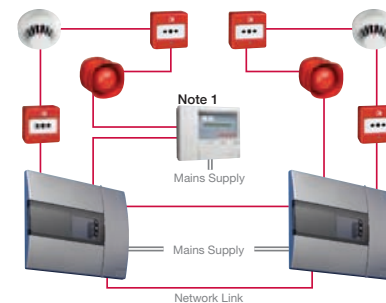
Standard Connection



Network Connected



Loop Connected



Note 1:
In this configuration the repeater would give 'text' information for the panel that is on the loop, but only address number for the other panel on the network.

Product Codes

Code	Description
ULCF3000PR	Intelligent Addressable Passive Repeater Panel
NCDR	Dual Channel Network Card (optional extra)

Intelligent Addressable Sensors



ULCAP320 - Optical Sensor



ULCAPT340 - Photo-Thermal



ULCAH330 - Multi-Mode Heat Sensor



ULCAP320 - Optical / ULCAPT340 - Photo-Thermal / ULCAH330 - Multi-Mode Heat

Overview

This range of UL intelligent addressable sensors have been specifically designed to operate with Cooper UL Listed range of intelligent addressable fire systems.

The optical sensor (ULCAP320) is suitable for most applications giving the fastest response to slow burning or smouldering fires which give rise to large visible smoke particles.

The photo-thermal sensor (ULCAPT340) will respond quickly 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 raise an alarm at temperatures exceeding 135°F.

The heat sensor (ULCAH330) can be set to one of 3 modes 135°F / 194°F and rate of rise. These sensors are designed to 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.

Features

- Soft addressed
- Integral short circuit isolator
- Single address
- Wide range of sensor types
- 360° visibility LED using lightpipe technology
- Drift compensation
- Removable detector chamber
- Aesthetically pleasing

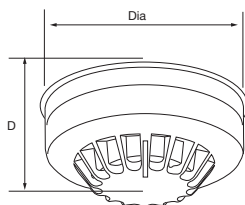
Benefits

- Quick and simple to install
- Single "multi-mode" heat sensor
- Wide viewing angle for increased LED visibility
- Common mounting base
- Positive "lock" indication
- Discreet design for incorporation into any decor
- Easy to maintain/service

Technical Specification

Code	ULCAP320	ULCAPT340	ULCAH330
Description	Addressable Sensor, Optical	Addressable Sensor, Photo-Thermal	Addressable Sensor, Multi-Mode Heat
Standards	UL268	UL268	UL521
Supply Ratings			
Working Voltage	18V dc to 30V dc	18V dc to 30V dc	18V dc to 30V 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 μ A (average)	220 μ A (average)	220 μ A (average)
Alarm Current	5mA (max)	5mA (max)	5mA (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 Identifier	W002	W002	W002
Compatible Bases	WBA or UCAB300	WBA or UCAB300	WBA or UCAB300
Suitable for use with	Cooper UL fire systems	Cooper UL Fire Systems	Cooper UL Fire Systems

Dimensions



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

Note: The above dimensions are with UCAB300 base

Installation

1. Sensors are fixed and wired via common mounting base (UCAB300).
2. Cable entry into base can be rear or side.
3. A locking facility is provided which can be activated if required to prevent unauthorised sensor removal without the use of a special tool.

Note: For wiring information please see UCAB300 base.

User Interface

1. LED indicates detector status, can be set to flash to confirm communication with control panel, illuminates continuously under fire conditions.
2. All wiring connections are via a common mounting base (ordered separately).

Product Codes

Code	Description
ULCAP320	Intelligent Addressable Sensor, Optical
ULCAPT340	Intelligent Addressable Sensor, Photo-Thermal
ULCAH330	Intelligent Addressable Sensor, Multi-Mode Heat
UCAB300	Intelligent Addressable Standard Base

Intelligent Addressable Standard Base



UCAB300 - Intelligent Addressable Standard Base

Overview

The UL intelligent addressable standard base (UCAB300) has been designed for flexibility, simplicity and speed of installation.

The (UCAB300) is compatible with the Cooper UL Listed range of intelligent addressable sensors and fire systems.

The UL intelligent addressable standard base host a range of intuitive features and incorporates a purpose designed shorting link to ensure wiring continuity if a sensor is removed.

The (UCAB300) is designed to provide separate connection terminals for loop in and loop out cables up to 2.5mm² together with a dedicated earth drain wire connection on the base.

This device also has a retaining clip to provide positive feedback when the sensor is correctly fitted and a retaining clip can be replaced with locking device (supplied with base) to prevent unauthorised sensor removal.

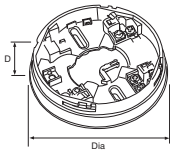
Features

- Integral sensor shorting link
- Separate loop in and loop out terminals
- Dedicated earth terminal
- Stand off fixing feature
- Accepts side entry cables
- Selectable sensor locking feature

Benefits

- Quick and simple to install
- Common mounting base for Cooper UL intelligent addressable sensors
- Positive "lock" indication
- multiple cable entry points
- Easy to maintain/service

Dimensions



Dia (mm)	D (mm)
104	22

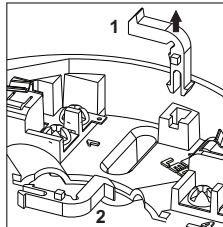
Technical Specification

Code	UCAB300
Description	Standard Base
Physical	
Construction	PC/ABS
Colour	White
Dimensions (Dia x D)	104mm x 22mm
Compatibility	
Suitable for use with	Cooper UL Fire Systems

Utilising Locking Tab

Mounting base includes an optional feature to prevent the removal of the detector without the use of a tool.

1. Remove the positive "lock" indication module (1).
2. Insert the locking module that is located at the centre of the base as shown (2).



Mount the sensor onto the base and rotate fully clockwise until it finally clicks.

The sensor is now locked into position. Remove by utilising a suitable tool (eg a thin screwdriver) into the hole in the sensor cover. Gently push the tool into the sensor and rotate anticlockwise.

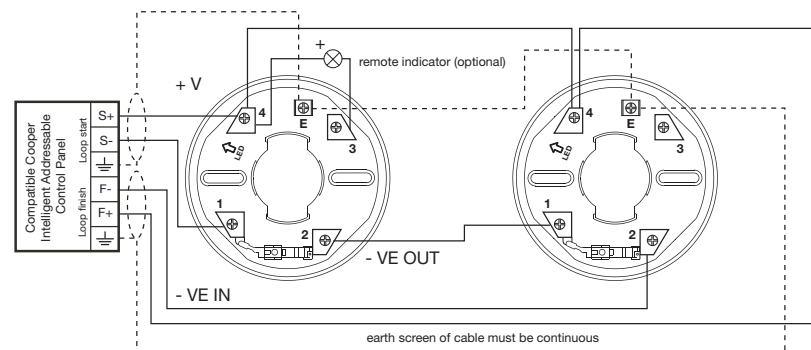
Installation

1. Separate terminals are provided for loop in and loop out connections.
2. Each terminal can accept up to 2 x 2.5mm cables.
3. Base incorporates a substantial cable entry aperture in the rear of the base.
4. Breakouts are provided to enable the sensor base to sit neatly over surface run cables and then enter via the rear entry aperture.
5. The base incorporates a stand off feature to help prevent distortion when mounted on an uneven surface.
6. Fixings are suitable for standard BESA box or direct fixing to a suitable surface.

If difficulty is experienced when mounting the detector, this may be due to the following:

- Wiring causing an obstruction - move or shorten wires.
- The base is tolerant to uneven mounting surfaces, a very uneven surface may cause the base to deform when the mounting screws are tightened down - loosen screws to reduce this or reposition the base.

Standard Connection



WARNING:

If using the outer connection on terminal 2, ensure the operation of the switch is not impeded and that there are no shorts between terminal 2 and the switch contact.

Warning!

Do not use high voltage testers when detectors or control panel are connected to the system.

Product Codes

Code	Description
UCAB300	Intelligent Addressable Standard Base
CIR301	Remote Indicator

Conventional 2-Wire Detectors



UCPD-2W - Optical Detector



UCPT-2W - Photo-Thermal Detector



UCHT-2W / UCHTI-2W / UCHR-2W / UCHRI-2W
Heat Detectors



Conventional Detectors

Overview

This range of UL conventional detectors have been specifically designed to operate with the Cooper range of intelligent addressable control panel interfaces.

The optical detector (UCPD-2W) is suitable for most applications giving the fastest response to slow burning or smouldering fires which give rise to large visible smoke particles.

The photo-thermal detector (UCPT-2W) will respond quickly to fast clean burning fires yet maintain the advantage of optical detectors when detecting smouldering fires. The thermal enhancement of this detector allows a higher alarm threshold which provides a greater rejection of false alarms. The detector will also raise an alarm at temperatures exceeding 60°C.

The fixed heat detectors (UCHT-2W) and (UCHTI-2W) will detect temperatures above 135°F and 194°F. There are two versions of the rate of rise heat detector the (UCHR-2W) and the (UCHRI-2W) these are used to detect rapid increases in temperature with a maximum threshold of 135°F and 194°F. These detectors are designed to 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.

Features

- Two wire connection
- 360° visibility LED using lightpipe technology
- Wide range of detector types
- Drift compensation
- Removable detector chamber
- Aesthetically pleasing

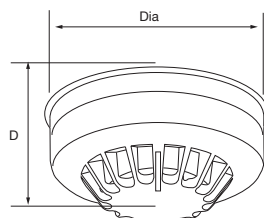
Benefits

- Quick and simple to install
- Wide viewing angle for increased LED visibility
- Common mounting base
- Positive "lock" indication
- Discreet design for incorporation in to any decor
- Easy to maintain/service

Technical Specification

Code	UCPD-2W	UCPT-2W	UCHT-2W	UCHTI-2W	UCHR-2W	UCHRI-2W
Description	Conventional Detector Optical, 2 Wire	Conventional Detector Photo-Thermal, 2 Wire	Conventional Detector Fixed Heat, 135°F, 2 Wire	Conventional Detector Fixed Heat, 194°F, 2 Wire	Conventional Detector Rate of Rise & Fixed Heat 135°F, 2 Wire	Conventional Detector Rate of Rise & Fixed Heat 194°F, 2 Wire
Standards	UL268	UL268	UL521	UL251	UL251	UL251
Supply Ratings						
Working Voltage	15V dc to 30V dc	15V dc to 30V dc	15V dc to 30V dc	15V dc to 30V dc	15V dc to 30V dc	15V dc to 30V dc
Voltage Waveform ripple @120Hz	Filtered dc +/- 1 V (max), ripple @120Hz	Filtered dc +/- 1 V (max), ripple @120Hz	Filtered dc +/- 1 V (max), ripple @120Hz	Filtered dc +/- 1 V (max), ripple @120Hz	Filtered dc +/- 1 V (max), ripple @120Hz	Filtered dc +/- 1 V (max), ripple @120Hz
Standby Current	95 μ A (average)	95 μ A (average)	70 μ A (average)	70 μ A (average)	70 μ A (average)	70 μ A (average)
Alarm Current	must be held externally to 40mA (max)	must be held externally to 40mA (max)	must be held externally to 40mA (max)	must be held externally to 40mA (max)	must be held externally to 40mA (max)	must be held externally to 40mA (max)
Surge Current	340 μ A (max)	340 μ A (max)	340 μ A (max)	340 μ A (max)	340 μ A (max)	340 μ A (max)
Timings						
Start-up Time	20 seconds	20 seconds	20 seconds	20 seconds	20 seconds	20 seconds
Reset Time	2 seconds (max)	2 seconds (max)	2 seconds (max)	2 seconds (max)	2 seconds (max)	2 seconds (max)
Sensitivity						
Sensitivity	2.55+/- 0.33%/ft	2.55+/- 0.33%/ft	N/A	N/A	N/A	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	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	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
Environmental						
Operating Temperature	32°F to 100°F	32°F to 100°F	32°F to 100°F	32°F to 150°F	32°F to 150°F	32°F to 150°F
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
Compatibility						
Compatibility Identifier	W001	W001	W001	W001	W001	W001
Compatible Base	CB2E	CB2E	CB2E	CB2E	CB2E	CB2E
Suitable for use with	Cooper UL Fire Systems	Cooper UL Fire Systems	Cooper UL Fire Systems	Cooper UL Fire Systems	Cooper UL Fire Systems	Cooper UL Fire Systems

Dimensions



Description	Dia (mm)	D (mm) (excl base)	D (mm) (incl base)
Optical	101	33	45
Photo-Thermal	101	43	55
Heat	101	43	55

Installation

1. Detectors are fixed and wired via common mounting base (CB2E).
2. Cable entry into base can be rear or side.
3. A locking facility is provided which can be activated if required to prevent unauthorised detector removal without the use of a special tool.
4. Positive click mechanism incorporated to provide clear indication when detector is correctly located in base.

Note: For wiring information please see CB2E Base.

User Interface

1. Red LED to indicate alarm condition.
2. Amber LED to indicate chamber fault/drift compensation limit (UCPD-2W and UCPT-2W models only).
3. All wiring connections are via a common mounting base (supplied separately).

Product Codes

Code	Description
UCPD-2W	Conventional 2-Wire Detector, Optical
UCPT-2W	Conventional 2-Wire Detector, Photo-Thermal
UCHT-2W	Conventional 2-Wire Detector, Fixed Heat 135°F
UCHTI-2W	Conventional 2-Wire Detector, Fixed Heat 194°F
UCHR-2W	Conventional 2-Wire Detector, Rate of Rise and Fixed Heat 135°F
UCHRI-2W	Conventional 2-Wire Detector, Rate of Rise and Fixed Heat 194°F
CB2E	Conventional 2-Wire Standard Base

Conventional Standard Base



CB2E - Conventional Standard Base

Overview

The UL conventional standard base (CB2E) has been designed for flexibility, simplicity and speed of installation.

The (CB2E) has been specifically designed to operate with the Cooper UL Listed range of intelligent addressable control panel interfaces.

The (CB2E) is designed to provide separate connection terminals for zone in and zone out cables up to 2.5mm² together with a dedicated earth drain wire connection on the base.

This device also has a retaining clip to provide positive feedback when the sensor is correctly fitted and a retaining clip can be replaced with locking device (supplied with base) to prevent unauthorised sensor removal.

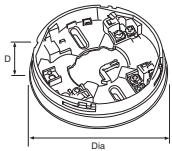
Features

- Two wire connection
- Separate zone in and zone out terminals
- Stand off fixing feature
- Accepts side entry cables
- Selectable detector locking feature

Benefits

- Quick and simple to install
- Common mounting base for Cooper conventional UL detectors
- Positive "lock" indication
- multiple cable entry points
- Easy to maintain/service

Dimensions



Dia (mm)	D (mm)
104	22

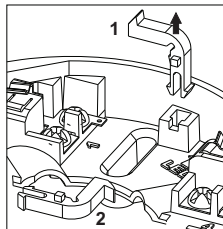
Technical Specification

Code	CB2E
Description	Standard Base
Physical	
Construction	PC/ABS
Colour	White
Dimensions (Dia x D)	104mm x 22mm
Compatibility	
Suitable for use with	Cooper UL Fire Systems

Utilising Locking Tab

Mounting base includes an optional feature to prevent the removal of the detector without the use of a tool.

1. Remove the positive "lock" indication module (1).
2. Insert the locking module that is located at the centre of the base as shown (2).



Mount the sensor onto the base and rotate fully clockwise until it finally clicks.

The sensor is now locked into position. Remove by utilising a suitable tool (eg a thin screwdriver) into the hole in the sensor cover. Gently push the tool into the sensor and rotate anticlockwise.

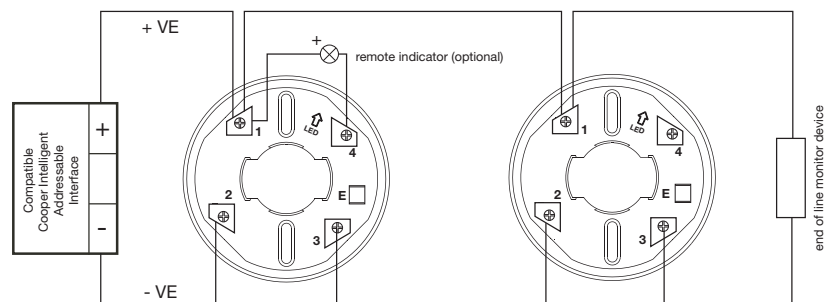
Installation

1. Separate terminals are provided for zone in and zone out connections.
2. Each terminal can accept up to 2 x 2.5mm cables.
3. Base incorporates a substantial cable entry aperture in the rear of the base.
4. Breakouts are provided to enable the detector base to sit neatly over surface run cables and then enter via the rear entry aperture.
5. The base incorporates a stand off feature to help prevent distortion when mounted on an uneven surface.
6. Fixings are suitable for standard BESA box or direct fixing to a suitable surface.

If difficulty is experienced when mounting the detector, this may be due to the following:

- Wiring causing an obstruction - move or shorten wires.
- The base is tolerant to uneven mounting surfaces, a very uneven surface may cause the base to deform when the mounting screws are tightened down - loosen screws to reduce this or reposition the base.

Standard Connection



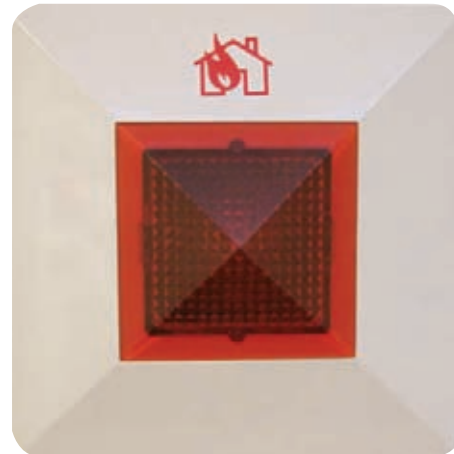
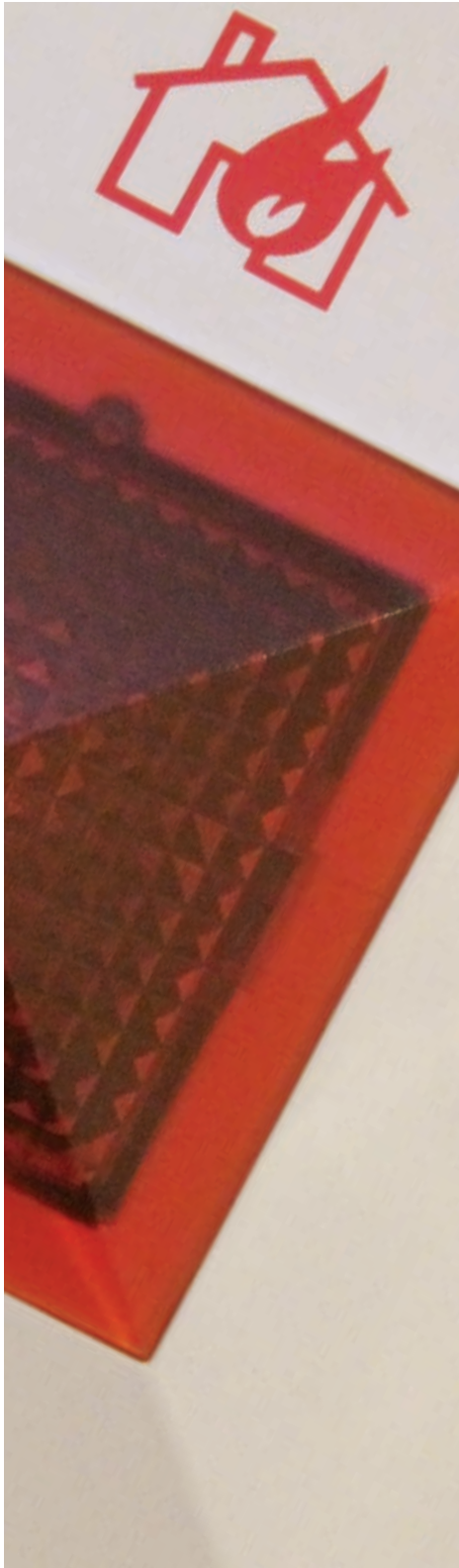
Warning!

Do not use high voltage testers when detectors or control panel are connected to the system.

Product Codes

Code	Description
CB2E	Conventional 2-Wire Standard Base
CIR301	Remote Indicator

Remote Indicator



CIR301 - Remote Indicator

Overview

The UL remote indicator (CIR301) is designed to provide discreet yet visible remote indication, with a large, wide angle red LED lens, the UL remote indicator provides a high visibility, low profile indication of detector operation within a secure or inaccessible area.

The (CIR301) has been specifically designed to operate with the Cooper UL Listed range of intelligent addressable sensors and conventional detectors.

The UL remote indicator is ideal for applications such as void spaces or outside locked or inaccessible rooms to provide external indication of an activated automatic sensor/detector.

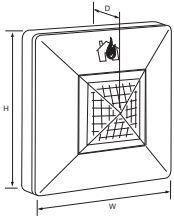
Features

- High visibility LED
- Fits on to a standard single gang back-box
- Aesthetically pleasing

Benefits

- Quick and simple to install
- Wide viewing angle for increased visibility
- Discreet design for incorporation in to any decor
- Easy to maintain/service

Dimensions



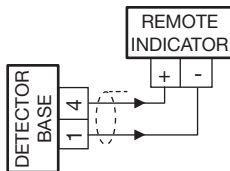
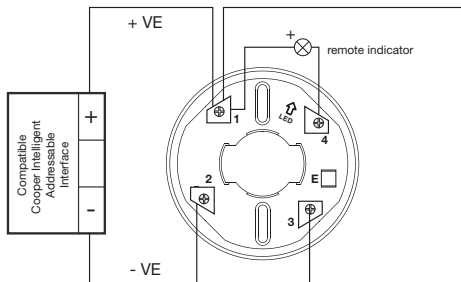
H (mm)	W (mm)	D (mm)
87	87	30

Technical Specification

Code	CIR301
Description	Remote Indicator
Environmental	
Operating Temperature	-10°C to +55°C
Humidity (Non Condensing)	0 to 95% RH
Physical	
Construction	ABS
Colour	White
Lens Colour	Red
Dimensions (H x W x D)	87mm x 87mm x 30mm
Weight	0.28kg
Ingress Protection	IP30
Compatibility	
Suitable for use with	Cooper UL Fire Systems

Standard Connection

CIR301



WARNING:
Do NOT use high voltage testers if ANY equipment is connected to the system.

Installation

1. Mounting plate fixes to single gang back-box or can be direct fixed to wall or ceiling.
2. Cable entry is normally from rear but breakouts are provided in side of base plate.
3. Cables connect to terminals on PCB within base plate.
4. Front cover is pushed onto base plate and locks in place.

System Functionality

1. CIR301 is connected to an individual detector.
2. CIR301 activates if sensor/detector is triggered.
3. LED cancels when sensor/detector is reset.
4. Low current consumption.

Product Codes

Code	Description
CIR301	Remote Indicator

Pull Stations



UMPS / SG Range - Pull Station

Overview

The UL pull stations (UMPS-100 and UMPS-200) are designed to exceed your expectations and offer the most polished, feature rich and cost effective solution.

Both the (UMPS-100 and UMPS-200) are compatible with the Cooper UL range of intelligent addressable fire systems, and come complete with a (ULMCIM-C) fast response intelligent addressable input initiating unit.

This UL pull station is constructed of high quality, die-cast metal for long lasting performance and is designed to be fitted to a single gang back-box for flush mounting. For surface mounting a sheet metal back box (SBG325) can be utilised.

The (UMPS-100 and UMPS-200) are painted red with raised white lettering, have a locking mechanism to prevent unauthorized reset and are complete with a UL Listed fast response intelligent addressable input initiating module (ULMCIM-C).

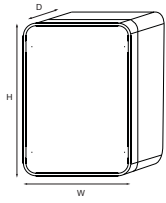
Features

- Wall mounting
- Single/dual action options
- Complete with Initiating module (ULMCIM-C)
- Key reset
- Corrosion resistant gold plated SPST contacts
- High-gloss red enamel finish with raised white lettering
- Class A, style 7 SLC

Benefits

- Quick and simple to install
- High quality die cast metal case for lasting performance
- No hard addressing required with initiating unit (ULMCIM-C - plug and play)
- Easy to maintain/service

Dimensions



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

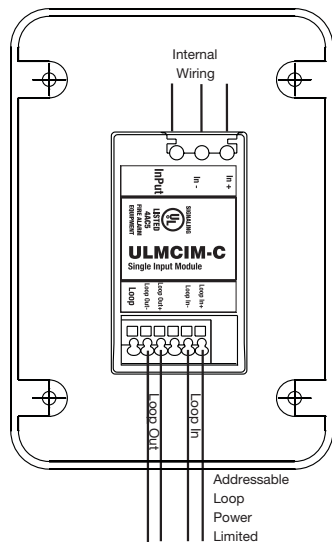
Technical Specification

Code	UMPS-100
Description	Pull Station
Approvals	UL Listed
Physical	
Construction	Die-cast metal
Colour	Red
Dimensions (H x W x D)	118mm x 80mm x 80mm
Compatibility	
Suitable for use with	Cooper UL Fire Systems

Installation

The UMPS series of manual pull stations may be surface mounted with a back box by Cooper Safety Fire Systems or flush mounted on a standard single gang switch box. In either case, be sure to follow local codes and regulations. To comply with ADA standards, the pull station must be mounted less than 48 inches above floor level for front wheelchair access, and less than 54 inches for side wheelchair access.

Intelligent Addressable Connection



Surface Mount

A surface mount installation uses a die-cast (model SGB-32C-RD) or sheet metal (model SGB-32S-RD) back box. The back box has 4 predrilled mounting holes of 0.187" diameter. A size 8 screw can be used to attach the back box to the wall surface. After the back box is in place, attach the conduit. The cast back box has an opening that is tapped for a 1/2 NPT fitting which may be oriented at the top or bottom when the box is attached to the wall. The sheet metal back box has top and bottom conduit knockouts. Field wiring is connected as shown in the supplied wiring diagram. Please note that field wiring should not be wrapped around the terminal screws but connected to the clamping connections on the ULMCIM-C interface.

The front housing of the pull station is locked using either a key or a hex lock depending on the model purchased. Unlock the front housing and swing it forward to expose the metal mounting plate. Install the mounting plate to the back box using the 1/4" screws (4) supplied. If a break rod is being used, move the pull handle to a 45 degree angle and insert the break rod into the cavity beneath the pull handle. Place the pull handle back in the normal standby position (flush with the surface of the front housing). Verify that the switch actuator is in the proper standby position before moving the front housing back to the upright position and locking it.

Flush Mount

Most flush mount installations may be attached to a standard single gang box (not supplied). Open the station as described above and mount it to the box using the two holes located along the centre line of the mounting plate..

Operation

The UMPS-100/UMPS-200 are operated by pulling the white handle on the front of the pull station as far down as it will go, at which point the handle locks into place and is easily visible from up to 50 feet.

The handle is reset by opening the pull station with a key, placing the white handle in the normal upright position and relocking the station.

Product Codes

Code	Description
UMPS-100	Pull Station Single Action (SG42BK2 & ULMCIM-C) - Intelligent Addressable systems
UMPS-200	Pull Station Dual Action (SG42BK1 & ULMCIM-C) - Intelligent Addressable systems
SG42BK1	Pull Station Dual Action – Conventional Systems
SG42BK2	Pull Station Single Action – Conventional Systems
SBG325	Back box for surface mount – Sheet Metal
ULMCIM-C	Intelligent Addressable Micro Input Unit

Sounder Base



ULCAS380 - Sounder Base

Overview

The UL intelligent addressable sounder base (ULCAS380) can be used both with a sensor or as a stand alone device.

The (ULCAS380) is compatible with the Cooper UL Listed range of intelligent addressable fire systems.

This device incorporates a sensor mounting base, a sensor can be fitted to the sounder base or alternatively an optional cover plate (ULCASC) can be used to enable the sounder to operate as a dedicated discreet stand alone sounder.

The (ULCAS380) requires no set up on installation once wired and connected to the intelligent addressable control panel. The sounder tone and volume are set by the control panel system set up programming or via PC programming using the Cooper site installer software, thereby saving both on installation and set up time, giving cost savings on the system installation.

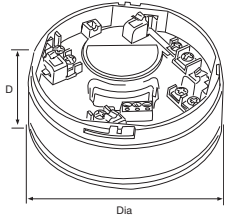
Features

- Integral short circuit isolator
- Integral sensor mounting base
- Can be used with a sensor as a sounder base or stand alone as a sounder
- Cover plate (ULCASC - optional)

Benefits

- Quick and simple to install
- First fix base
- Selectable tones controlled by the panel
- Adjustable volume controlled by the panel
- Single point connection for sensor and sounder (saving on both time and installation costs)
- Easy to maintain/service

Dimensions



Dia (mm) D (mm)
102 40

Technical Specification

Code	ULCAS380
Description	Sounder Base
Standards	UL464
Specification	
Operating Voltage	17V dc to 32V dc
Standby Current	< 320µA
Tones (set by panel)	Continuous: 910Hz Pulsed: 910Hz / 0Hz pulse 1Hz Two tone: 610 / 910Hz at 1Hz cycle Slow whoop
Sound Output at +/-3dB (set by panel)	Low volume : 84dB at < 4mA Medium volume : 92dB at < 8mA High volume : 95dB at < 12mA
Environmental	
Operating Temperature	-10 to +55°C
Humidity (Non Condensing)	0 to 95% RH
Physical	
Construction	PC/ABS
Colour	White
Dimensions (Dia x D)	120mm x 40mm
Weight	0.2kg
Ingress Protection	IP40
Compatibility	
Suitable for use with	Cooper UL Fire Systems

Installation

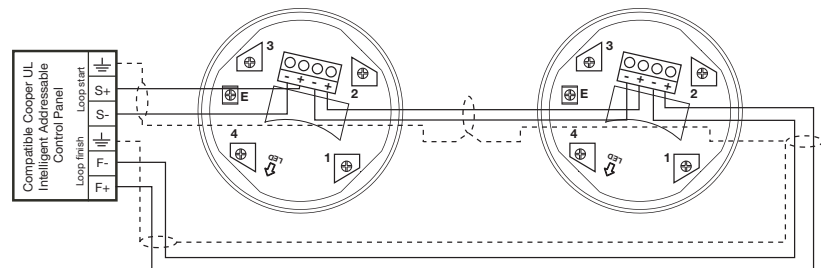
1. Installation is simple using first fix base.
2. First fix base is fixed to mounting surface via 2 mounting holes.
3. Cables enter through aperture in base (rear entry only)
4. Main body is then clipped into place on base, main body locks into place when pressed into position.
5. Cables pass through aperture in sounder body and terminate at the front.
6. Connections are to connector block on front of main sounder body.

7. Sensor or cover plate is then fixed to sounder.
8. Sensor or cover plate can be locked in place if required.

System Functionality

1. Volume and tone are set by control panel, no need to access sounder to alter setting.
2. Soft addressed.

Standard Connection



WARNING:
Do NOT use high voltage testers if ANY equipment is connected to the system.
Earth screen must be continuous along entire length of loop.

NOTE:
Base terminal 1, 2, 3 and 4 not used. All wiring terminates as shown above.

Product Codes

Code	Description
ULCAS380	Intelligent Addressable Sounder Base
ULCASC	Sounder Cover Plates (pack of 5)



Horns



HNWC - Ceiling Mounted / HNR - Wall Mounted

Overview

The ceiling mounted (HNWC) and wall mounted (HNR) horns are designed to exceed your expectations and offer the most polished, feature rich and cost effective solution.

Both the (HNWC) and the (HNR) are compatible with the Cooper UL Listed range of intelligent addressable fire systems.

Architects and engineers can now specify the industries sleekest looking fire notification appliance, while being afforded all the features and benefits that provide the industry's lowest total cost of ownership.

The combination of 12V dc and 24V dc in one unit provides the capability to use a single unit for different installation requirements

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

They come complete with a contact cover for protection against dirt, dust, paint and damage to the contacts. This contact cover also acts as a shunting device to allow pre-wire testing for common wiring issues.

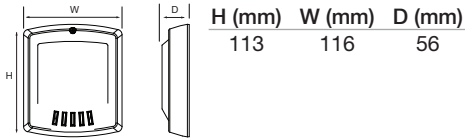
Features

- Wall or ceiling mounting options
- 12V dc and 24V dc in one unit
- Common mounting base
- Contact cover
- Up to 9 models in 1 unit (3 audible settings)

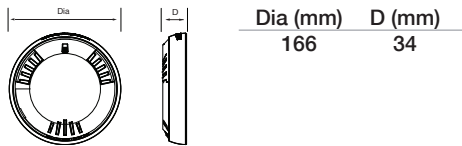
Benefits

- Quick and simple to install
- Up to 48% savings in current draw (over similar products)
- 5 mounting options
- Voltage test points for quick troubleshooting and easy spot checking
- Contact cover provides protection from dirt, dust, paint and accidental damage, it also allows for pre-wire testing and troubleshooting

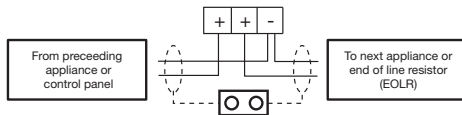
Dimensions - Wall Mount



Dimensions - Ceiling Mount



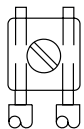
Standard Connection



WARNING:
Do NOT use high voltage testers if ANY equipment is connected to the system.

Screen (Earth) must be continuous along entire length of cable

Wiring method shall be in accordance with CSA C22.1, Canadian Electrical Code, Part 1, Safety Standard for Electrical Installations, Section 32.



1. All strobe appliances have in-out wiring terminals that accept two #12 to #18 American Wire Gauge (AWG) wires at each screw terminal. Strip leads 3/8 inches and connect to screw terminals.
2. Break all in-out wire runs on supervised circuits to ensure integrity of circuit supervision. The polarity shown in the wiring diagrams is for the operation of the appliances. The polarity is reversed by the control panel during supervision.

Horns, Strobes and Horn Strobes

All strobe models are UL dual listed - meeting both UL1638 and UL1971 requirements. As dual listed appliances, these weatherproof strobes are listed for outdoor applications under UL 1638 as well as under UL 1971, the Standard for Safety Signaling Devices for Hearing Impaired. With an extended temperature range of -31°F to 150°F (-40°C to 66°C), the weatherproof appliances meet or exceed UL outdoor test requirements for rain, humidity and corrosion resistance while providing multiple strobe intensity options, including the highest strobe ratings available for area coverage per NFPA 72 strobe spacing tables (up to 185 candela for wall mounting and 177 candela for ceiling mounting).

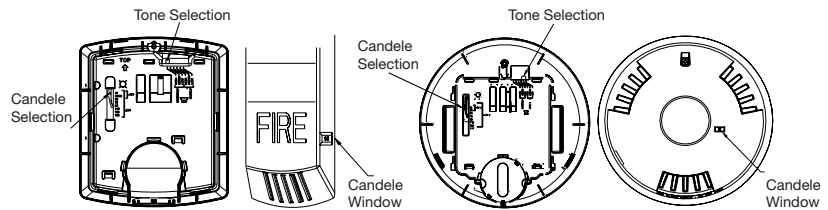
Technical Specification

Code	HNR	HNWC
Description	Horn, Wall Mounted	Horn, Ceiling Mounted
Standards	UL Standard 1971 & UL Standard 464	UL Standard 1971 & UL Standard 464
Operation		
12V dc/24V dc	90/95/99 dBA	90/95/99 dBA
Environmental		
Operating Temperature	0°C to 49°C	0°C to 49°C
Humidity (Non Condensing)	0 to 93 %RH	0 to 93 %R
Compatibility		
Suitable for use with	Cooper UL Fire Systems	Cooper UL Fire Systems

Horn Ratings per UL Anechoic

Mode	Regulated Voltage Range	99dB	95dB	90dB
HN	16V dc to 33.0V dc	0.064	0.044	0.022
HNC	16V dc to 33.0V dc	0.084	0.044	0.022
HN	8.0V dc to 17.5V dc	0.047	0.026	0.017
HNC	8.0V dc to 17.5V dc	0.047	0.026	0.017

Horn Unit Details



Product Codes

Code	Description
HNR	Horn, Wall Mount
HNWC	Horn, Ceiling Mount

Horn Strobes



HSWC - Ceiling Mounted / HSR - Wall Mounted

Overview

The ceiling mounted (HSWC) and wall mounted (HSR) horn strobes are designed to exceed your expectations and offer the most polished, feature rich and cost effective solution.

Both the (HSWC) and the (HSR) are compatible with the Cooper UL Listed range of intelligent addressable fire systems.

Architects and engineers can now specify the industries sleekest looking fire notification appliance, while being afforded all the features and benefits that provide the industry's lowest total cost of ownership.

The combination of 12V dc and 24V dc in one unit provides the capability to use a single unit for different installation requirements

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

They come complete with a contact cover for protection against dirt, dust, paint and damage to the contacts. This contact cover also acts as a shunting device to allow pre-wire testing for common wiring issues.

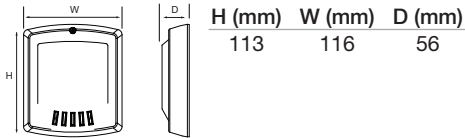
Features

- Wall or ceiling mounting options
- 12V dc and 24V dc in one unit
- Common mounting base
- Contact cover
- Up to 9 models in 1 unit (3 audible and 8 candela settings)

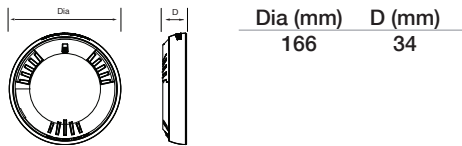
Benefits

- Quick and simple to install
- Up to 48% savings in current draw (over similar products)
- Voltage test points for quick troubleshooting and easy spot checking
- Contact cover provides protection from dirt, dust, paint and accidental damage, it also allows for pre-wire testing and troubleshooting

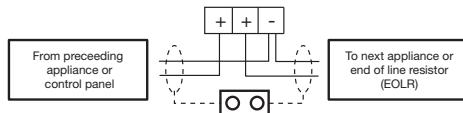
Dimensions - Wall Mount



Dimensions - Ceiling Mount



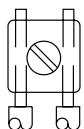
Standard Connection



WARNING:
Do NOT use high voltage testers if ANY equipment is connected to the system.

Screen (Earth) must be continuous along entire length of cable

Wiring method shall be in accordance with CSA C22.1, Canadian Electrical Code, Part 1, Safety Standard for Electrical Installations, Section 32.



1. All strobe appliances have in-out wiring terminals that accept two #12 to #18 American Wire Gauge (AWG) wires at each screw terminal. Strip leads 3/8 inches and connect to screw terminals.
2. Break all in-out wire runs on supervised circuits to ensure integrity of circuit supervision. The polarity shown in the wiring diagrams is for the operation of the appliances. The polarity is reversed by the control panel during supervision.

Horns, Strobes and Horn Strobes

All strobe models are UL dual listed - meeting both UL1638 and UL1971 requirements. As dual listed appliances, these weatherproof strobes are listed for outdoor applications under UL 1638 as well as under UL1971, the Standard for Safety Signaling Devices for Hearing Impaired. With an extended temperature range of -31°F to 150°F (-40°C to 66°C), the weatherproof appliances meet or exceed UL outdoor test requirements for rain, humidity and corrosion resistance while providing multiple strobe intensity options, including the highest strobe ratings available for area coverage per NFPA 72 strobe spacing tables (up to 185 candela for wall mounting and 177 candela for ceiling mounting).

Technical Specification

Code	HSR	HSWC
Description	Horn Strobes, Wall Mounted	Horn Strobes, Ceiling Mounted
Standards	UL Standard 464	UL Standard 464
Operation		
12/24V dc	15/1575/30/75/95/110/135/185cd, 90/95/99dB(A)	15/30/60/75/95/115/150/177cd, 90/95/99dB(A)
Environmental		
Operating Temperature	0°C to 49°C	0°C to 49°C
Humidity (Non Condensing)	0 to 93 %RH	0 to 93 %RH
Compatibility		
Suitable for use with	Cooper UL Fire Systems	Cooper UL Fire Systems

Current Draw Ratings

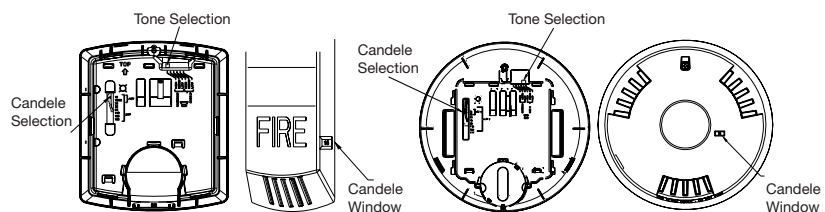
Horn Strobe Ratings per UL 1971 and Anechoic at 24V dc	UL Max Current* at 99 dB(A)														
	24V dc											12V dc			
	Mode	Regulated Voltage Range	15	15/75	30	60	75	95	110	115	135	150	177	185	15
HS	8.0V dc to 33.0V dc	0.082	0.095	0.102		0.148	0.176	0.197		0.242			0.282	0.125	0.159
HSC	8.0V dc to 33.0V dc	0.082		0.102	0.141	0.148	0.176		0.197		0.242	0.282		0.125	

Horn Strobe Ratings per UL 1971 and Anechoic at 24V dc	UL Max Current* at 95 dB(A)														
	24V dc											12V dc			
	Mode	Regulated Voltage Range	15	15/75	30	60	75	95	110	115	135	150	177	185	15
HS	8.0V dc to 33.0V dc	0.073	0.083	0.087		0.139	0.163	0.186		0.230			0.272	0.122	0.153
HSC	8.0V dc to 33.0V dc	0.073		0.087	0.128	0.139	0.163		0.186		0.230	0.272		0.122	

Horn Strobe Ratings per UL 1971 and Anechoic at 24V dc	UL Max Current* at 90 dB(A)														
	24V dc											12V dc			
	Mode	Regulated Voltage Range	15	15/75	30	60	75	95	110	115	135	150	177	185	15
HS	8.0V dc to 33.0V dc	0.065	0.075	0.084		0.136	0.157	0.184		0.226			0.267	0.120	0.148
HSC	8.0V dc to 33.0V dc	0.065		0.084	0.120	0.136	0.157		0.184		0.226	0.267		0.120	

* UL max current rating is the maximum RMS current within the listed voltage range (16-33V dc for 24V dc units). For strobes the UL max current is usually at the minimum listed voltage (16V dc for 24V dc units). For audibles the max current is usually at the maximum listed voltage (33V dc for 24V dc units). For unfiltered ratings, see installation instructions.

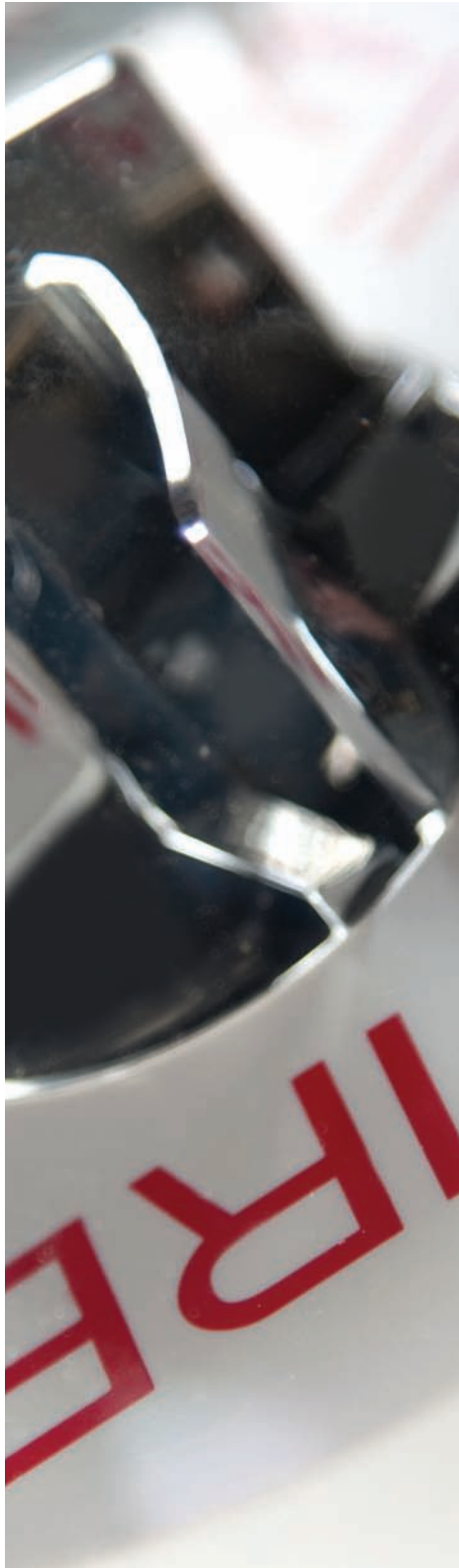
Horn Strobe Unit Details



Product Codes

Code	Description
HSR	Horn Strobe, Wall Mount
HSWC	Horn Strobe, Ceiling Mount

Internal Strobes



STWC - Ceiling Mounted / STR - Wall Mounted

Overview

The ceiling mounted (STWC) and wall mounted (STR) internal strobes are designed to exceed your expectations and offer the most polished, feature rich and cost effective solution.

Both the (STWC) and the (STR) are compatible with the Cooper UL Listed range of intelligent addressable fire systems.

Architects and engineers can now specify the industries sleekest looking fire notification appliance, while being afforded all the features and benefits that provide the industry's lowest total cost of ownership.

The combination of 12V dc and 24V dc in one unit provides the capability to use a single unit for different installation requirements.

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

They come complete with a contact cover for protection against dirt, dust, paint and damage to the contacts. This contact cover also acts as a shunting device to allow pre-wire testing for common wiring issues.

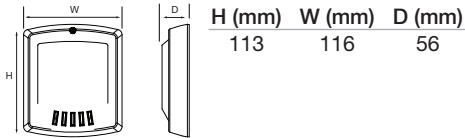
Features

- Wall or ceiling mounting options
- Common mounting base
- Contact cover
- Industry's highest strobe candela options
- Field selectable tone, dBA and candela settings
- In/out wiring termination accepting two #12-18 AWG wires at each terminal

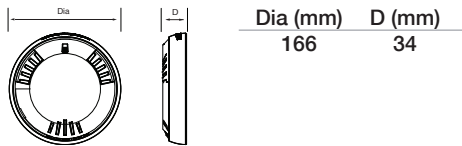
Benefits

- Quick and simple to install
- Up to 48% savings in current draw (over similar products)
- Voltage test points for quick troubleshooting and easy spot checking
- Contact cover provides protection from dirt, dust, paint and accidental damage, it also allows for pre-wire testing and troubleshooting

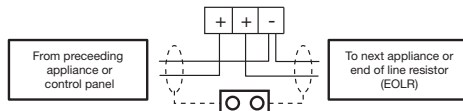
Dimensions - Wall Mount



Dimensions - Ceiling Mount



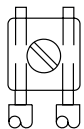
Standard Connection



WARNING:
Do NOT use high voltage testers if ANY equipment is connected to the system.

Screen (Earth) must be continuous along entire length of cable

Wiring method shall be in accordance with CSA C22.1, Canadian Electrical Code, Part 1, Safety Standard for Electrical Installations, Section 32.



1. All strobe appliances have in-out wiring terminals that accept two #12 to #18 American Wire Gauge (AWG) wires at each screw terminal. Strip leads 3/8 inches and connect to screw terminals.
2. Break all in-out wire runs on supervised circuits to ensure integrity of circuit supervision. The polarity shown in the wiring diagrams is for the operation of the appliances. The polarity is reversed by the control panel during supervision.

Horns, Strobes and Horn Strobes

All strobe models are UL dual listed - meeting both UL1638 and UL1971 requirements. As dual listed appliances, these weatherproof strobes are listed for outdoor applications under UL 1638 as well as under UL1971, the Standard for Safety Signaling Devices for Hearing Impaired. With an extended temperature range of -31°F to 150°F (-40°C to 66°C), the weatherproof appliances meet or exceed UL outdoor test requirements for rain, humidity and corrosion resistance while providing multiple strobe intensity options, including the highest strobe ratings available for area coverage per NFPA 72 strobe spacing tables (up to 185 candela for wall mounting and 177 candela for ceiling mounting).

Technical Specification

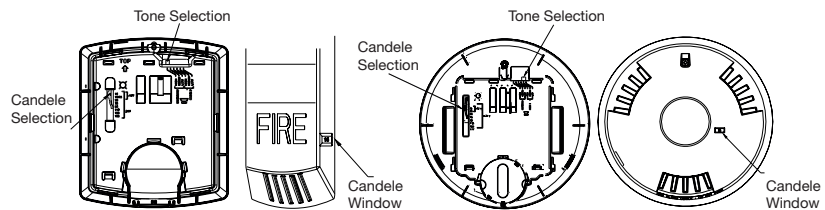
Code	STR	STWC
Description	Internal Strobes, Wall Mounted	Internal Strobes, Ceiling Mounted
Standards	UL Standard 1971	UL Standard 1971
Operation		
12/24V dc	15/1575/30/75/95/110/135/185 cd	15/1575/30/75/95/110/135/185 cd
Environmental		
Operating Temperature	0°C to 49°C	0°C to 49°C
Humidity (Non Condensing)	0 to 93 %RH	0 to 93 %RH
Compatibility		
Suitable for use with	Cooper UL Fire Systems	Cooper UL Fire Systems

Current Draw Ratings

Strobe ratings per UL standard 1971	UL Max Current*														
	24V dc												12V dc		
Mode	Regulated Voltage Range	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
ST	8.0V dc to 33.0V dc	0.057	0.070	0.085		0.135	0.163	0.182		0.205			0.253	0.110	0.140
STC	8.0V dc to 33.0V dc	0.061		0.085	0.103	0.135	0.163		0.182		0.205	0.253		0.110	

* UL max current rating is the maximum RMS current within the listed voltage range (16-33V dc for 24V dc units). For strobes the UL max current is usually at the minimum listed voltage (16V dc for 24V dc units). For audibles the max current is usually at the maximum listed voltage (33V dc for 24V dc units). For unfiltered ratings, see installation instructions.

Internal Strobe Unit Details



Product Codes

Code	Description
STR	Internal Strobes, Wall Mount
STWC	Internal Strobes, Ceiling Mount

External Strobes



RSSWP-2475C-FW - Ceiling Mounted / RSSWP-2475W-FR - Wall Mounted

Overview

The ceiling mounted (RSSWP-2475C-FW) and wall mounted (RSSWP-2475W-FR) external strobes are designed to exceed your expectations and offer the most polished, feature rich and cost effective solution.

Both the (RSSWP-2475C-FW) and the (RSSWP-2475W-FR) are compatible with the Cooper UL Listed range of intelligent addressable fire systems.

Architects and engineers can now specify the industries sleekest looking fire notification appliance, while being afforded all the features and benefits that provide the industry's lowest total cost of ownership.

The combination of 12V dc and 24V dc in one unit provides the capability to use a single unit for different installation requirements.

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

They come complete with a contact cover for protection against dirt, dust, paint and damage to the contacts. This contact cover also acts as a shunting device to allow pre-wire testing for common wiring issues.

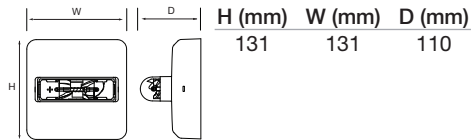
Features

- Wall or ceiling mounting options
- Common mounting base
- Contact cover
- Industry's highest strobe candela options
- Field selectable tone, dBA and candela settings
- In/out wiring termination accepting two #12-18 AWG wires at each terminal

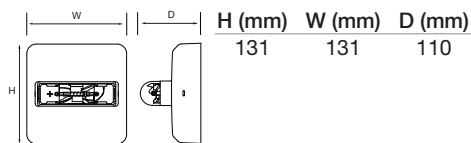
Benefits

- Quick and simple to install
- Up to 48% savings in current draw (over similar products)
- Voltage test points for quick troubleshooting and easy spot checking
- Contact cover provides protection from dirt, dust, paint and accidental damage, it also allows for pre-wire testing and troubleshooting

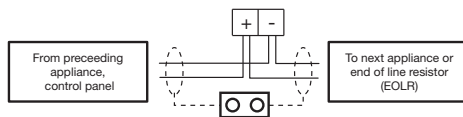
Dimensions - Wall Mount



Dimensions - Ceiling Mount



Standard Connection



WARNING:
Do NOT use high voltage testers if ANY equipment is connected to the system.

Screen (Earth) must be continuous along entire length of cable

Wiring method shall be in accordance with CSA C22.1, Canadian Electrical Code, Part 1, Safety Standard for Electrical Installations, Section 32.

-
- All strobe appliances have in-out wiring terminals that accept two #12 to #18 American Wire Gauge (AWG) wires at each screw terminal. Strip leads 3/8 inches and connect to screw terminals.
 - Break all in-out wire runs on supervised circuits to ensure integrity of circuit supervision. The polarity shown in the wiring diagrams is for the operation of the appliances. The polarity is reversed by the control panel during supervision.

Horns, Strobes and Horn Strobes

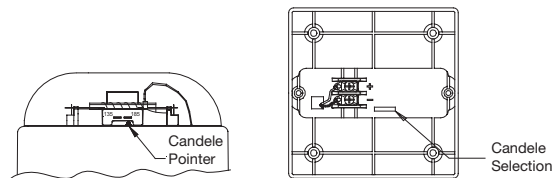
All strobe models are UL dual listed - meeting both UL1638 and UL1971 requirements. As dual listed appliances, these weatherproof strobes are listed for outdoor applications under UL 1638 as well as under UL1971, the Standard for Safety Signaling Devices for Hearing Impaired. With an extended temperature range of -31°F to 150°F (-40°C to 66°C), the weatherproof appliances meet or exceed UL outdoor test requirements for rain, humidity and corrosion resistance while providing multiple strobe intensity options, including the highest strobe ratings available for area coverage per NFPA 72 strobe spacing tables (up to 185 candela for wall mounting and 177 candela for ceiling mounting).

Technical Specification

Code	RSSWP-2475W-FR	RSSWP-2475C-FW
Description	External Strobes, Wall Mounted	External Strobes, Ceiling Mounted
Standards	UL1638 & UL1971	UL1638 & UL1971
Operation		
Regulated Voltage	24V dc	24V dc
	Synchronisation strobe 75 cd	Synchronisation strobe 75 cd
Environmental		
Operating Temperature	-40°C to 60°C	-40°C to 60°C
Humidity (Non Condensing)	0 to 95 %RH	0 to 95 %RH
Compatibility		
Suitable for use with	Cooper UL Fire Systems	Cooper UL Fire Systems

Model	UL Rated Strobe Candela (cd)		Maximum RMS Current Draw (DC)	Maximum RMS Current Draw (FWR)
	At -40°C (UL1638)	(UL1971)		
RSSWP-2475W	115	30/180 *	0.138	0.222
RSSWP-2475C	115	30/180 *	0.138	0.222

External Strobe Unit Details



Standards

Designed for life safety, performance and reliability, the Cooper weatherproof strobe appliances are UL dual listed - meeting both UL1638 and UL1971 requirements. As dual listed appliances, these weatherproof strobes are listed for outdoor applications under UL 1638 as well as under UL 1971, the standard for safety signaling devices for hearing impaired. With an extended temperature range of -31°F to 150°F (-40°C to 66°C), Wheelock weatherproof appliances meet or exceed UL outdoor test requirements for rain, humidity and corrosion resistance while providing multiple strobe intensity options, including the highest strobe ratings available for area coverage per NFPA 72 strobe spacing tables (up to 185 candela for wall mounting and 177 candela for ceiling mounting).

Product Codes

Code	Description
RSSWP-2475W-FR	External Strobes, Wall Mount
RSSWP-2475C-FW	External Strobes, Ceiling Mount
WFP	Back-Box, Flush Mount

4 Way Sounder Controller Unit



ULCS354 - 4 Way Sounder Controller Unit

Overview

An extensive range of interfaces are available to support the Cooper range of UL intelligent addressable control panels, providing solutions for most design requirements.

The UL 4 way sounder controller unit (ULCS354) is a loop connected interface, which provides the facility to power and control 4 independent conventional sounder circuits located in a remote area from the intelligent addressable control panel.

This greatly simplifies system design and reduces installation costs where specialist horns and strobes are required by avoiding the need to connect them directly to the intelligent addressable control panel.

The unit only uses a single address yet each circuit can be independently controlled according to the required cause and effect programming.

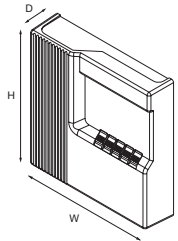
Features

- Quick and simple to install
- 4 separate sounder circuits (0.4A) per circuit (1.6A) total
- All outputs independently programmable
- Integral battery backup
- Integral short circuit isolator

Benefits

- No hard addressing required (plug and play)
- Avoids the need to wire conventional sounders back to the main panel
- Increased system integrity. Self powered independently of SLC
- No external short circuit isolator required
- Horns and strobes can be wired direct to the interface thereby saving time and cabling cost

Dimensions



H (mm)	W (mm)	D (mm)
300	300	74

Technical Specification

Code	ULCS354
Description	4 Way Sounder Controller Unit
Standards	UL864 9 th edition
Signalling Line Circuit (Style 7, Class A, Supervised, Power Limited)	
SLC Current	0.417mA to 5.4mA
Voltage	24V dc
Line Impedance	50Ω
Sounder 1, 2, 3, 4 (Style Y, Class B, Supervised, Power Limited)	
Voltage	24V dc
Sounder Load Per Channel	0.4A (max)
Sounder Load Total	1.6A (max)
End of Line Resistor	6.8kΩ
Line Impedance	16Ω (max)
Mains Supply	
Voltage	120V ac to 240V ac
Current	0.1A
Frequency	60Hz
Environmental	
Operating Temperature	0°C to 49°C
Humidity (Non Condensing)	0 to 93 %RH
Physical	
Dimensions (H x W x D)	300mm x 300mm x 74mm
Weight	5.4kg
Ingress Protection	IP40
Battery Backup	2 x 12V, 4Ah, 0.1 derating factor
Standby	24 Hours + 30mins alarm
Charge Current	1A (max)
Compatibility	
Suitable for use with	Cooper UL Fire Systems

Notes:

No hard addressing of the interface is required. (See control panel operation for details).

This unit requires a permanent 120/230V ac supply.

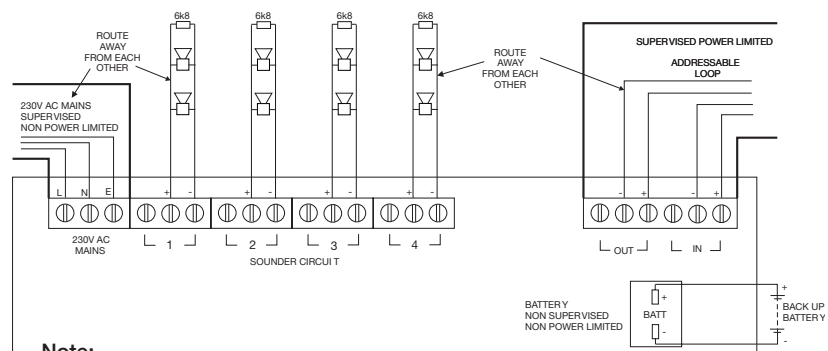
Installation

1. Remove the cover of the unit.
2. Fit the back plate in position and pass the wires into it taking care not to damage the circuit board.
3. Connect the unit according to the standard connection diagram supplied with the unit.

Operation

Normal Standby / Alarm / Trouble

Standard Connections



Note:

1. The end of line resistors must always be fitted, even if the sounder circuits are unused. Installer / service engineer must ensure it is fitted.
2. The ANSI pattern is generated by the horns themselves.

Description	Field Wiring SLC Circuit (Input)	Sounder Circuit Single Channel (Output)
Wiring Gauge	12 Max AWG	12 Max AWG
Wiring Class	Class A Style 7	Class B Style Y
Ground Fault Impedance	0.1Ω	0.1Ω
Supervised, Power Limited	Yes	Yes, regulated
Line Impedance	50Ω	16Ω
Audible Synchronised	N/A	N/A

Product Codes

Code	Description
ULCS354	4 Way Sounder Controller Unit

Zone Monitor Unit



ULCZMU352 - Zone Monitor Unit

Overview

An extensive range of interfaces are available to support the Cooper range of UL intelligent addressable control panels, providing solutions for most design requirements.

The UL zone monitor unit (ULCZMU352) permits the connect of a zone of the Cooper UL conventional detectors and pull stations (if required) to the Cooper intelligent addressable system.

Housed in a IP65 rated box the (ULCZMU352) provides a cost effective means of utilizing the wiring of a pre existing conventional zone, enabling system designer to provide fire detection in a pre existing area without affecting the building aesthetics.

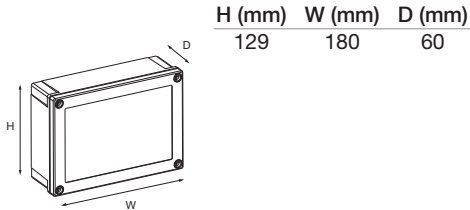
Features

- Monitors a zone of UL approved compatible conventional detectors
- Monitors a zone of UL approved compatible pull stations
- Only takes a single address
- Input monitored for open, short circuits and ground trouble
- Integral short circuit isolator

Benefits

- Quick and simple to install
- No hard addressing required (Plug and play)
- Easy to expand a system using existing wiring

Dimensions



Technical Specification

Code	ULCZMU352
Description	Zone Monitor Unit
Standards	UL864 9th edition
Signalling Line Circuit (Style 7, Class A, Supervised, Power Limited)	
Load Current (min/max)	2.8mA to 8.0mA
Supply Voltage	24V dc
Detector Zone (Style C, Class B, Supervised, Power Limited)	
Voltage	21V dc to 26V dc, 22.9V dc (nom)
Current (Alarm)	17mA to 40mA
Line Impedance	2.5Ω (max)
End of Line Resistance	5K1Ω
Fire Input Trigger	680Ω
Compatible Detectors	UPCD-2W, UCPT-2W, UCHRI, UCHT any combination thereof
Compatibility Identifier	ULCV1
Pull Station Zone (Style C, Class B, Supervised, Power Limited)	
Voltage	8.4Vpp (pulsed every 1 sec)
Current	1.2mA
Trigger Resistor	680Ω
End of Line Resistor	6.8kΩ
Line Impedance	16Ω
Environmental	
Operating Temperature	0°C to 49°C
Humidity (Non Condensing)	0 to 93 %RH
Physical	
Dimensions (H x W x D)	180mm x 129mm x 60mm
Weight	0.28kg
Ingress Protection	IP65
Compatibility	
Suitable for use with	Cooper UL Fire Systems

Notes:

No hard addressing of the interface is required. (See control panel operation for details).

Installation

1. Separate the two halves of the unit.
2. Drill out (or knock out) the required cable entries in the surface mounting back-box.
3. Fit the back-box in position and pass the wires into it.
4. Connect the unit according to the standard connection diagram supplied with the unit.

Operation

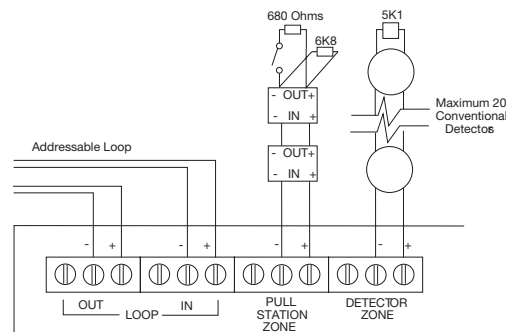
Pull Station Zone:

Normal Standby / Alarm / NAC Silenced / Alarm / Reset / Trouble /Supervisory / Drill

Detector Zone:

Normal Standby / Alarm / Trouble

Standard Connections



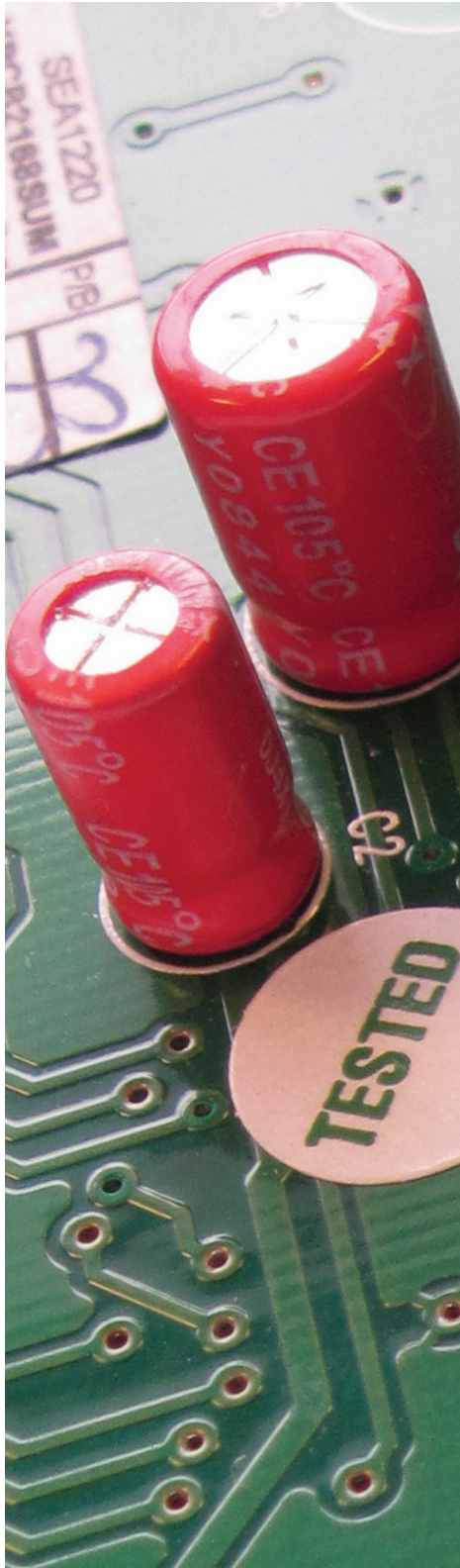
Note:

1. This unit can only be used with the Cooper UL detector base (ULCB2E) and compatible Cooper UL detectors.
2. The end of line resistor must always be fitted, even if the spur is unused. Installer / service engineer must ensure it is fitted.
3. Detector zone end of line device is 5k1 (supplied).
4. Pull station zone end of line device is 6k8 (supplied).
5. Compatibility identifier ULCV1.

Product Codes

Code	Description
ULCZMU352	Zone Monitor Unit

Shop Monitor Unit



ULCSUM355 - Shop Monitor Unit

Overview

An extensive range of interfaces are available to support the Cooper range of UL intelligent addressable control panels, providing solutions for most design requirements.

The UL shop monitor unit (ULCSUM355) is designed to enable small units with conventional fire detection to be fully integrated with a main intelligent addressable fire system.

This unit is ideal for applications such as connecting individual shop units into a main shopping centre system.

The UL shop monitor unit provides a zone of detection with up to 20 Cooper UL conventional detector/bases supported. It also supports a zone of pull stations as well as 2 conventional sounder circuits.

An external power supply is required to drive the 2 conventional sounder circuits. This power supply must be UL1481 listed, regulated for fire and current limited.

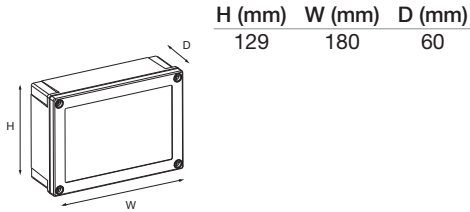
Features

- Soft addressed
- Integral short circuit isolator
- Single address
- Accepts a zone of UL approved conventional detectors and pull stations
- Provides 2 conventional sounder circuits
- Includes a set of output changeover contacts (fire relay)
- Inputs monitored for open, short circuits and ground trouble

Benefits

- Quick and simple to install
- No hard addressing required (Plug and play)
- Easy to expand a system using existing wiring
- Reduced installation cost by using the 2 sounder circuits

Dimensions



Technical Specification

Code	ULCSUM355
Description	Shop Monitor Unit
Standards	UL864 9 th edition
Signalling Line Circuit (Style 7, Class A, Supervised, Power Limited)	
Voltage	24V dc
Current	4.9mA to 5.0mA
Line Impedance	50Ω (max)
Detector Zone (Style C, Class B, Supervised, Power Limited)	
Voltage	21V dc to 26V dc, 22.9 V dc (nom)
Current (Alarm)	17mA to 40mA
Line Impedance	2.5Ω (max)
End of Line Resistor	5.6kΩ
Fire Input Trigger	680Ω
	UPCD-2W, UCPT-2W, UCHRI, UCHT any combination thereof
Compatibility Identifier	ULCV1
Sounder 1, Sounder 2 (Style Y, Class B, Supervised, Power Limited)	
Voltage	24V dc
Current	1A (max)
Line Impedance	8Ω
End of Line Resistance	12kΩ
Pull Station Zone (Style C, Class B, Supervised, Power Limited)	
Voltage (8.4 Vpp pulsed every 1 sec)	8.4V
Current	1.2mA
Line Impedance	16Ω
End of Line Resistor	6.8kΩ
Trigger Resistor	680Ω
24 V external PSU (Supervised, Power Limited)	
Voltage	24V dc
Current	2A (max)
End of Line Resistor	12kΩ
Line Impedance	4Ω
Gauge Wire	12 AWG UL 1481 listed regulated for fire, current limited
Environmental	
Operating Temperature	0°C to 49°C
Humidity (Non Condensing)	0 to 93 %RH
Physical	
Dimensions (H x W x D)	180mm x 129mm x 60mm
Weight	0.28kg
Ingress Protection	IP65
Compatibility	
Suitable for use with	Cooper UL Fire Systems

Installation

1. Separate the two halves of the unit.
2. Drill out (or knock out) the required cable entries in the surface mounting back-box.
3. Fit the back-box in position and pass the wires into it.
4. Connect the unit according to the standard connection diagram supplied with the unit.

Notes:

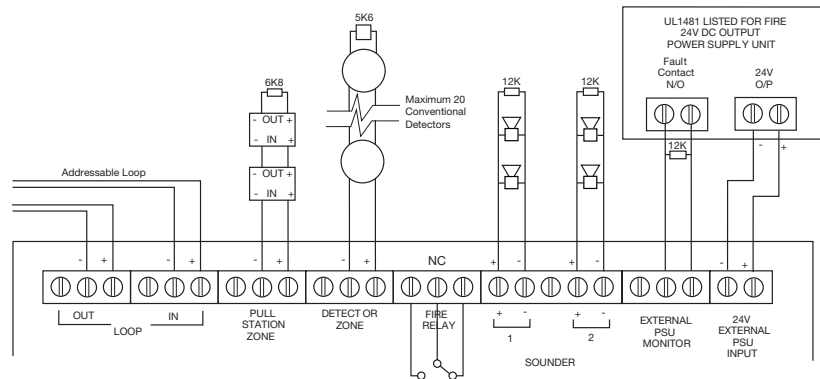
No hard addressing of the interface is required. (See control panel operation for details).

Operation

Pull Station Zone:
Normal Standby / Alarm / NAC Silenced / Alarm Reset / Trouble / Supervisory / Drill

Detector Zone:
Normal Standby / Alarm / Trouble.

Standard Connections



Note:

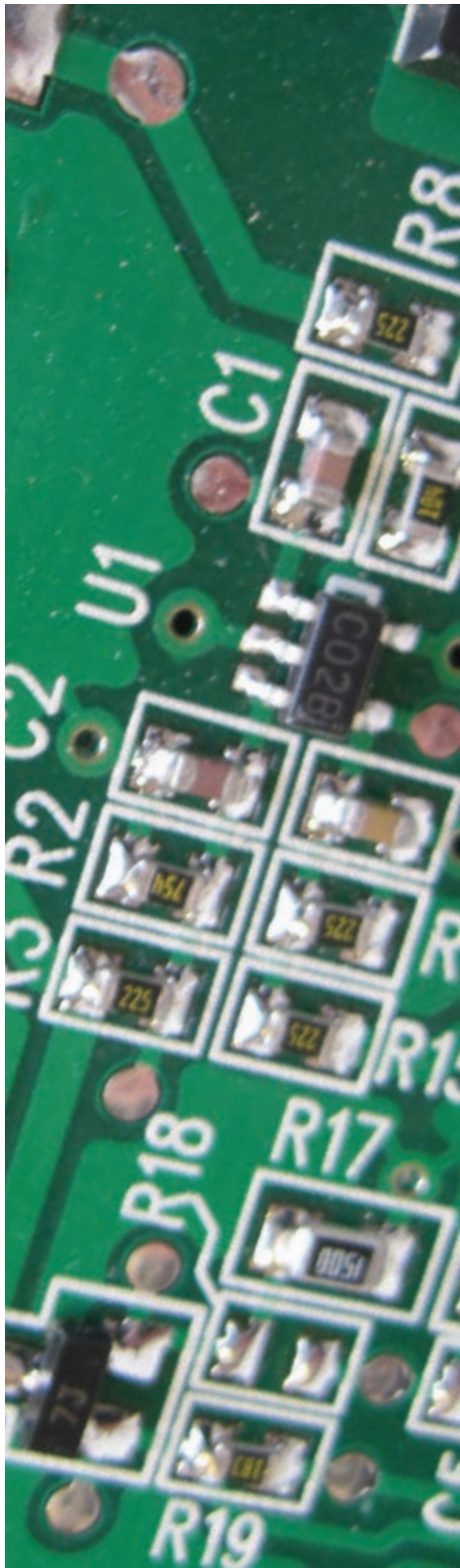
1. The end of line resistor must always be fitted, even if the inputs are unused.
2. Recommended cable type FPLP (plenum cable), type FPLR (riser cable), or type FPL.

Description	SLC Field Wiring (Input)	Pull Station Zone	Detector Zone	Sounder 1 Sounder 2	24 V dc External Supply	PSU External Monitor
Wiring	12	12	12	12	12	12
Gauge	Max AWG	Max AWG	Max AWG	Max AWG	Max AWG	Max AWG
Wiring	Class A Class	Class B Style 7	Class B Style C	Class B Style C	N/A Style Y	N/A
Ground Fault Impedance	0.1 ohm	0.1 ohm	0.1 ohm	0.1 ohm	TBD Power Supply	TBD Power Supply
Supervised, Power Limited	Yes	Yes	Yes	Regulated Supervised Power	Supervised Power Limited	Supplementary
Compatibility Identifier	ULCV1 Compatible Detectors: UPCD-2W, UCPT-2W, UCHRI, UCHT, UCHTI					

Product Codes

Code	Description
ULCSUM355	Shop Monitor Unit

Spur Isolator Unit



ULCSI350 - Spur Isolator Unit

Overview

An extensive range of interfaces are available to support the Cooper range of UL intelligent addressable control panels, providing solutions for most design requirements.

The UL spur isolator unit (ULCSI350) enables a spur of Cooper UL intelligent addressable devices to be connected to a main intelligent addressable loop, the device is designed to simplify installation of remote parts of buildings or for simple system extensions.

The unit permits up to 32 Cooper UL intelligent addressable devices to be installed as a "spur" off the main loop whilst maintaining the loop addressing sequence.

It should be ensured at the system design stage that the number of devices on the addressable spur and area of coverage meet the requirement UFPA72 and EN54.

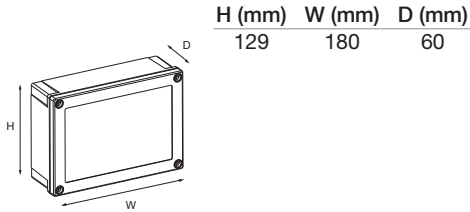
Features

- Allows a spur of intelligent addressable devices to be connected to the main loop
- Integral short circuit isolators for the loop and the spur
- Automatically controls addressing sequence

Benefits

- Quick and simple to install
- No hard addressing required (Plug and play)
- Easy to expand a system using existing wiring
- Reduced installation cost

Dimensions



Technical Specification

Code	ULCSI350
Description	Spur Isolator Unit
Standards	UL864 9 th edition
Signalling Line Circuit (Style 7, Class A, Supervised, Power Limited)	
Voltage	24V dc
Current	0.30mA to 0.33mA
Spur Output (Style 4, Class B, Supervised, Power Limited)	
Voltage	24V dc
Current	2mA to 500mA
Line Impedance	50Ω (max)
Environmental	
Operating Temperature	0°C to 49°C
Humidity (Non Condensing)	0 to 93 %RH
Physical	
Dimensions (W x H x D)	180mm x 129mm x 60mm
Weight	0.28kg
Ingress Protection	IP65
Compatibility	
Suitable for use with	Cooper UL Fire Systems

Notes:

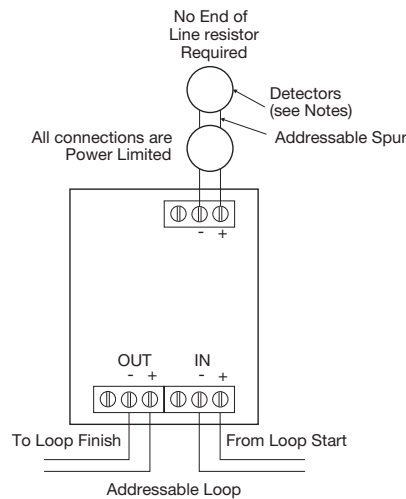
No addressing of the interface is required. (See control panel operation for details).

A spur isolator unit must be used when making spurs from the intelligent addressable panel loop. Without this unit, the self addressing features of the system will not function correctly.

Installation

1. Fit the unit in position.
2. Connect the unit according to the standard connection diagram supplied with the unit.

Standard Connections



Note:

1. This unit can only be used with the Cooper UL detector base UCAB300 and compatible Cooper UL intelligent addressable detectors.

Description	Field Wiring SLC Circuit (Input)	Single Channel (Input)
Wiring Gauge	12 Max AWG	12 Max AWG
Wiring Class	Class A Style 7	Class B Style 4
Ground Fault Impedance	0.1Ω	0.1Ω
Supervised, Power Limited	Yes	Yes
Max Line Impedance	50Ω	50Ω

Product Codes

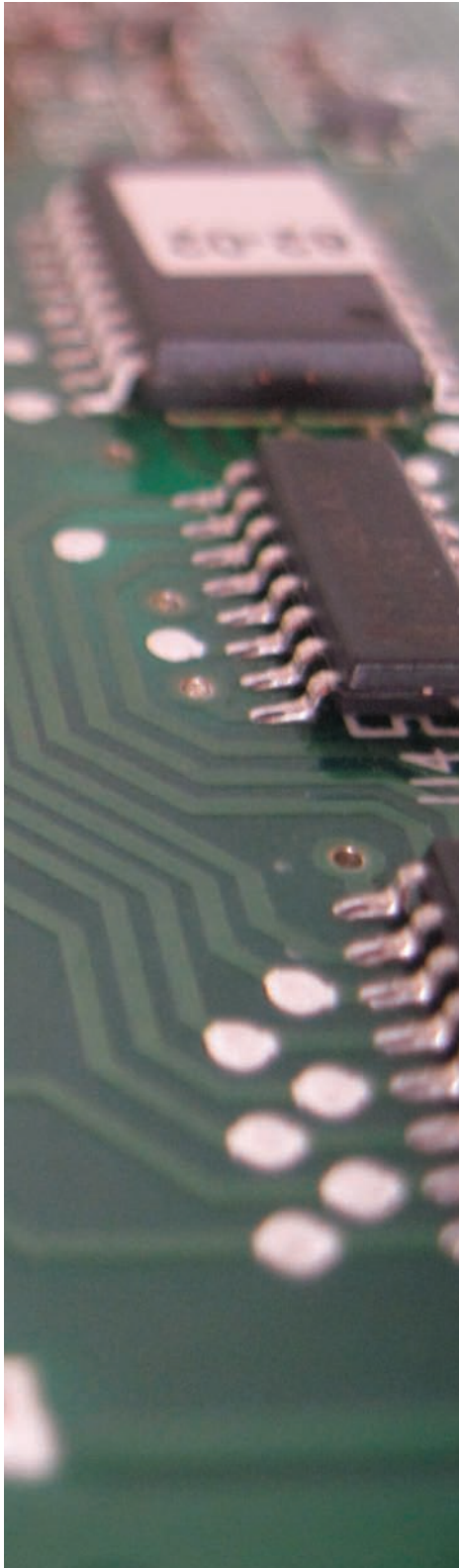
Code	Description
ULCSI350	Spur Isolator Unit

SIGNALING



LISTED
4AC5
FIRE ALARM
EQUIPMENT

3 Channel I/O Unit



ULCIO351 - 3 Channel I/O Unit

Overview

An extensive range of interfaces are available to support the Cooper range of UL intelligent addressable control panels, providing solutions for most design requirements.

The UL 3 channel I/O unit (ULCIO351) 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, short circuits and ground trouble.

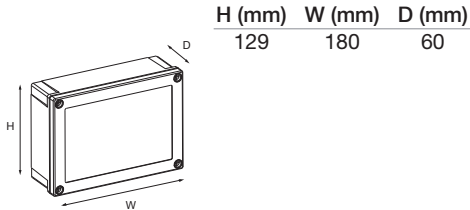
Features

- Soft addressed
- Integral short circuit isolator
- 3 separate inputs and 3 separate outputs
- Inputs monitored for open and short circuits

Benefits

- Quick and simple to install
- No hard addressing required (Plug and play)
- Unit takes 3 inputs, and 3 outputs
 - Only 1 address required to monitor and control saving on equipment and installation

Dimensions



Installation

1. Separate the two halves of the unit.
2. Drill out (or knock out) the required cable entries in the surface mounting back-box.
3. Fit the back-box in position and pass the wires into it.
4. Connect the unit according to the standard connection diagram supplied with the unit.

Notes:

No addressing of the interface is required. (See control panel operation for details).

A spur isolator unit must be used when making spurs from the intelligent addressable panel loop. Without this unit, the self addressing features of the system will not function correctly.

Operation

Input 1, 2, 3 Operation:

Normal Standby (Default) / Alarm / Alarm NAC
Silenced / Alarm Reset / Trouble / Trouble Supervisory / Drill
(Features programmable using PC site installer).

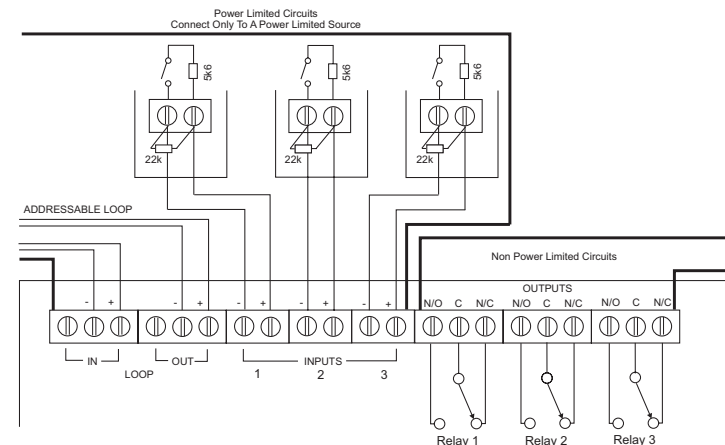
Output 1, 2, 3 Operations:

Normal Standby / Alarm

Technical Specification

Code	ULCIO351
Description	3 Channel I/O Unit
Standards	UL864 9 th edition
Signalling Line Circuit (Style 7, Class A, Supervised, Power Limited)	
Operating Voltage	24V dc
Current	1.4mA to 1.36mA
Line Impedance	50Ω
Inputs 1, 2, 3 Contact Only Initiating Circuit (Style C, Class B, Supervised, Power Limited)	
Voltage	8.4Vpp (pulsed every 1 sec)
Current	1mA (max)
Line Impedance	16Ω (max)
Trigger Resistance	5.6kΩ
End of Line Resistor	22kΩ
Output 1, 2, 3 (3 Contact Set Programmable)	
Voltage	24V dc to 30V dc
Current	1A (max, resistive PF1)
Switching Power	33kΩ (min)
Power Factor	1
Environmental	
Operating Temperature	0°C to 49°C
Humidity (Non Condensing)	0 to 93 %RH
Physical	
Dimensions (H x W x D)	180mm x 129mm x 60mm
Weight	0.28kg
Ingress Protection	IP65
Compatibility	
Suitable for use with	Cooper UL Fire Systems

Standard Connections



Note:

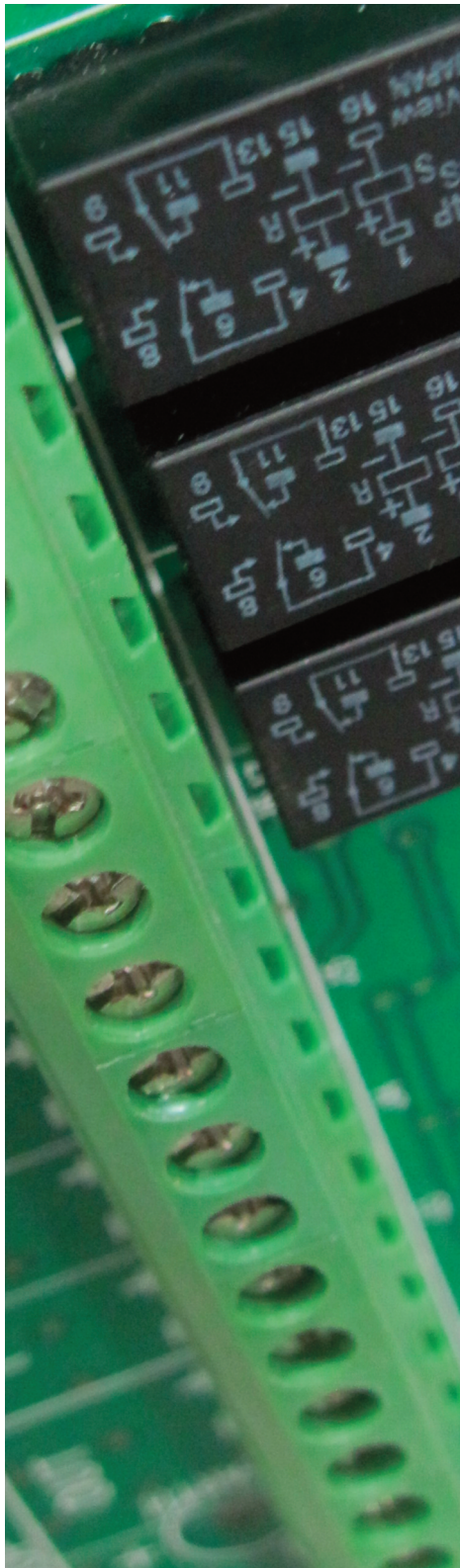
1. The end of line resistor must always be fitted, even if the inputs are unused. Installer / service engineer must ensure it is fitted.
2. Monitored inputs can detect open circuit, short circuit or ground faults.
3. Output relays are volt-free contacts and are not monitored, but must be connected to power limited source.

Description	SLC Field Wiring (Input)	Input 1, 2, 3	Output 1, 2, 3
Wiring Gauge	12 Max AWG	12 Max AWG	12 Max AWG
Wiring Class	Class A Style 7	Class B Style C	N/A
Ground Fault Impedance	0.1Ω	0.1Ω	0.1Ω
Supervised, Power Limited	Yes	Yes	Programmable

Product Codes

Code	Description
ULCIO351	3 Channel I/O Unit

120V ac / 230V ac Relay Unit



ULCMIO353 - 120V ac / 230V ac Relay Unit

Overview

An extensive range of interfaces are available to support the Cooper range of UL intelligent addressable control panels, providing solutions for most design requirements.

The UL 120V ac/230V ac relay unit (ULCMIO353) enables simple interfacing between the fire system and other equipment such as nurse call systems or access control systems.

The (ULCMIO353) is supplied with a set of change over contacts rated at 1A (resistive and with the ability of the output unit to switch mains also makes the unit ideal for plant control or mains powered door holders.

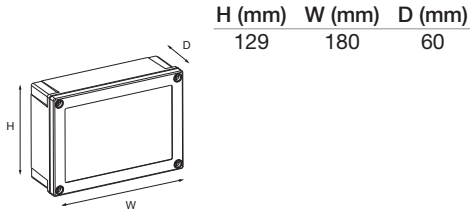
Features

- Soft addressed
- Integral short circuit isolator
- Single address
- Mains rated relay unit
- Input monitored for open and short circuits

Benefits

- Quick and simple to install
- No hard addressing required (Plug and play)
- Easy to expand a system using existing wiring

Dimensions



Technical Specification

Code	ULCMIO353
Description	120V ac / 230V ac Relay Unit
Standards	UL864 9th edition
Signalling Line Circuit (Style 7, Class A, Supervised, Power Limited)	
Voltage	24V dc
Current	335µA to 395µA
Line Impedance	50Ω
Output 1 (Programmable)	
Voltage	120V ac to 230V ac
Contact Rating	1A Resistive
Power Factor	1
Environmental	
Operating Temperature	0°C to 49°C
Humidity (Non Condensing)	0 to 93 %RH
Physical	
Dimensions (W x H x D)	180mm x 129mm x 60mm
Weight	0.28kg
Ingress Protection	IP65
Compatibility	
Suitable for use with	Cooper UL Fire Systems

Notes:

No addressing of the interface is required. (See control panel operation for details).

Installation

1. Separate the two halves of the unit.
2. Drill out (or knock out) the required cable entries in the surface mounting back-box.
3. Fit the back-box in position and pass the wires into it.
4. Connect the unit according to the standard connection diagram supplied with the unit.
5. This unit is suitable for one conduit connection. Only the mains is allowed this conduit connection. The hub must be connected to the conduit before the hub is connected to the enclosure.

Operation

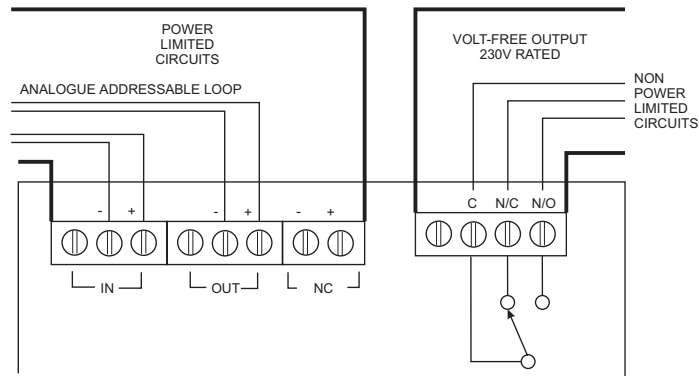
Output 1 Operation:
Normal Standby / Alarm

Warning!

Segregate mains cable from other connections to this unit.

120V ac / 230V ac relay output is un-fused. Ensure that the 120V ac / 230V ac supply feeding this unit is adequately protected.

Standard Connections



Description	SLC Field Wiring (input)	Output 2
Wiring Gauge	12 Max AWG	12 Max AWG
Wiring Class	Class A Style 7	N/A
Ground Fault Impedance	0.1Ω	0.1Ω
Supervised, Power Limited	Yes	Programmable

Product Codes

Code	Description
ULCMIO353	120V ac / 230V ac Relay Unit

Micro Zone Monitor Unit



ULMIU872 - Micro Zone Monitor Unit

Overview

An extensive range of interfaces are available to support the Cooper range of UL intelligent addressable control panels, providing solutions for most design requirements.

The UL zone monitor unit (ULMIU872) is an extremely compact unit ideal for incorporation in external equipment, it is a single zone input unit, soft addressed and incorporates integral short circuit isolators.

It is suitable for interfacing a zone of up to 20 Cooper UL conventional detectors onto a Cooper UL intelligent addressable control panel.

It will operate with any Cooper UL conventional detector in configuration with the UL conventional base (CB2E).

Features

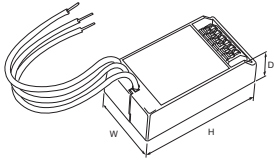
- Soft addressed
- Integral short circuit isolator
- Single address
- Accepts a zone of Cooper UL conventional detectors
- Input monitored for open and short ground trouble

Benefits

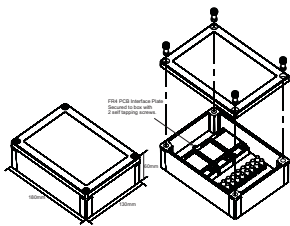
- Quick and simple to install
- No hard addressing required (Plug and play)
- Compact size
- Easy to expand a system using existing wiring

Dimensions

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



Mounting Details (Back-Box)



Installation

1. Fit the unit in position in accordance to the mounting details.
2. Connect the unit according to standard connections.
3. Up to 3 units can be fitted inside a micro module box unit.

Operation

Normal Standby / Alarm / Alarm Test / Alarm Silence / Alarm Reset / Trouble / Trouble Silence / Off normal position of switches

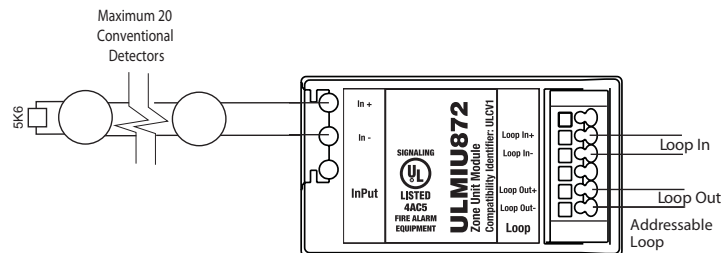
Technical Specification

Code	ULMIU872
Description	Zone Monitor Unit
Standards	UL864 9 th edition
Signalling Line Circuit (Style 7, Class A, Supervised, Power Limited)	
Voltage	24V dc
Current	4.9mA to 5.0mA
Detector Zone (Style D, Class A, Supervised, Power Limited)	
Voltage	21V dc to 26V dc (22.9 nom)
Current	17mA to 40mA
Line Impedance	2.5Ω (max)
End of Line Resistor	5.6kΩ
Fire Input Trigger	680kΩ
	UPCD-2W, UCPT-2W, UCHRI, UCHT, UCHTI, any combination thereof
	Compatibility Identifier : ULCV1
Environmental	
Operating Temperature	0°C to 49°C
Humidity (Non Condensing)	0 to 93 %RH
Physical	
Dimensions (H x W x D)	65mm x 35mm x 18.5mm
Weight	0.28kg
Ingress Protection	IP40
Compatibility	
Suitable for use with	Cooper UL Fire Systems

Notes:

No addressing of the interface is required (see control panel operation for details).

Standard Connections



Note:

1. This unit can only be used with Cooper UL conventional detector base and compatible detectors.
2. Only connect cable screen to its adjacent earth terminal.
3. The end of line resistor must always be fitted, even if the spur is unused. Installer / service engineer must ensure it is fitted.
4. Maximum number of conventional pull stations allowed is unlimited.
5. Detector zone end of line device is 5k6 (supplied).
6. Compatibility Identifier ULCV1.
7. Recommended cable type FPLP (plenum cable), type FPLR (riser cable), or type FPL.

Description	SLC Field Wiring (input)	Detector Zone
Wiring Gauge	12 Max AWG	12 Max AWG
Wiring Class	Class A Style 7	Class B Style C
Ground Fault Impedance	0.1Ω	0.1Ω
Supervised, Power Limited	Yes	Yes

Product Codes

Code	Description
ULMIU872	Micro Zone Monitor Unit
ULBU	Micro Module Box Unit (empty box)

Micro Single Channel Output Units



ULMCOM / ULMCOM-S - Micro Single Channel Output Units

Overview

An extensive range of interfaces are available to support the Cooper range of UL intelligent addressable control panels, providing solutions for most design requirements.

The UL single channel output unit (ULMCOM) is an extremely compact unit ideal for incorporation in to external equipment and suitable for switching low voltages (24V dc at 1A maximum).

This unit incorporates a set of non latching relay contacts and is suitable for switching HVAC control circuits, plant shutdown control circuits, fire door closure etc.

The (ULMCOM) is identified by the panel as an input/output unit, with a maximum of 20 units permitted per loop.

Optional Variant

A variant on the (ULMCOM) has been developed to allow additional loop inputs as below.

The (ULMCOM-S) is identified by the panel as a sounder, does not reset on silence but resets on panel reset. The maximum number of (ULMCOM-S) units per loop is 60, and is counted towards the total number of sounders on the loop.

Features

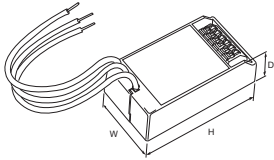
- Soft addressed
- Integral short circuit isolator
- Single address
- Non latching changeover relay contacts
- Suitable for switching low volts control gear
- Optional variant:
 - ULMCOM-S

Benefits

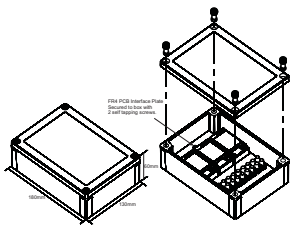
- Quick and simple to install
- No hard addressing required (Plug and play)
- Compact size

Dimensions

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



Mounting Details (Back-Box)



Installation

1. Fit the unit in position in accordance to the mounting details.
2. Connect the unit according to standard connections.
3. Up to 3 units can be fitted inside a micro module box unit.

Operation

Normal Standby / Alarm

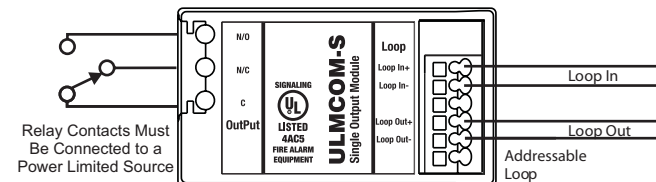
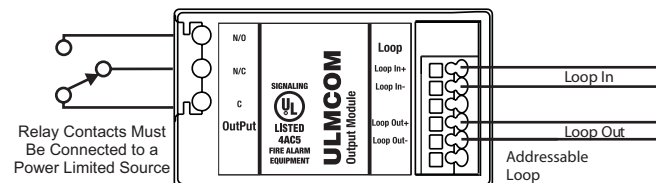
Technical Specification

Code		ULMCOM and ULMCOM-S
Description	Single Channel Output Units	
Standards	UL864 9 th edition	
Signalling Line Circuit (Style 7, Class A, Supervised, Power Limited)		
Current	0.322mA (max)	
Output Relay (Supervisory Programmable)		
Switching Voltage	24V dc to 30V dc	
Contact Rating	1A Resistive, pf=1 (max)	
Max Line Impedance	16Ω	
Power Factor	1	
Environmental		
Operating Temperature	0°C to 49°C	
Humidity (Non Condensing)	0 to 93 %RH	
Physical		
Dimensions (H x W x D)	65mm x 35mm x 18.5mm	
Weight	>0.1kg	
Ingress Protection	IP40	
Compatibility		
Suitable for use with	Cooper UL Fire Systems	

Notes:

No addressing of the interface is required (see control panel operation for details).

Standard Connections



Note:

1. Output relay are volt-free contacts and are not monitored.
2. Recommended cable type FPLP (plenum cable), type FPLR (riser cable), or type FPL.

Description	Field Wiring SLC Circuit (Input)	Single Channel Output
Wiring Gauge	12 Max AWG	12 Max AWG
Wiring Class	Class A Style 7	
Ground Fault Impedance	0.1Ω	
Supervised, Power Limited	Yes	Yes

Product Codes

Code	Description
ULMCOM	Micro Single Channel Output Unit (recognised as output unit)
ULMCOM-S	Micro Single Channel Output Unit (recognised as sounder)
ULBU	Micro Module Box Unit (empty box)

Micro Single Channel Input Units



ULMCIM / ULMCIM-C - Micro Single Channel Input Units

Overview

An extensive range of interfaces are available to support the Cooper range of UL intelligent addressable control panels, providing solutions for most design requirements.

The UL micro single channel input unit (ULMCIM) is a single input, soft addressed micro interface, incorporating integral short circuit isolators. It is extremely compact and therefore ideal for incorporation into other equipment.

It is designed for applications requiring the monitoring of a set of normally open, volt free contacts such as sprinkler system flow switches, auxiliary panel fire/fault signals as well as non fire input signals such as flow valve open contacts, generator start up, fire door closed etc.

Optional Variant

The (ULMCIM-C) is designed for use with pull station (UMPS-100) (fast response to alarm) and is identified by the panel as a pull station. Therefore up to 200 can be connected to the loop.

Features

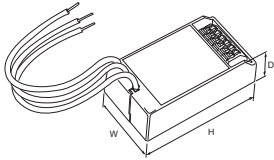
- Soft addressed
- Integral short circuit isolator
- Single address
- Suitable for monitoring:
 - Flow switches
 - Non fire inputs
 - Auxillary panels
- Optional variant:
 - ULMCIM-C

Benefits

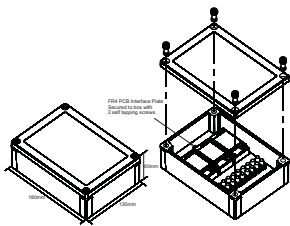
- Quick and simple to install
- No hard addressing required (Plug and play)
- Compact size

Dimensions

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



Mounting Details (Back-Box)



Installation

1. Fit the unit in position in accordance to the mounting details.
2. Connect the unit according to standard connections.
3. Up to 3 units can be fitted inside a micro module box unit.

Operation

Normal Standby / Alarm / NAC Silenced / Alarm Reset / Trouble / Supervisory / Drill

Technical Specification

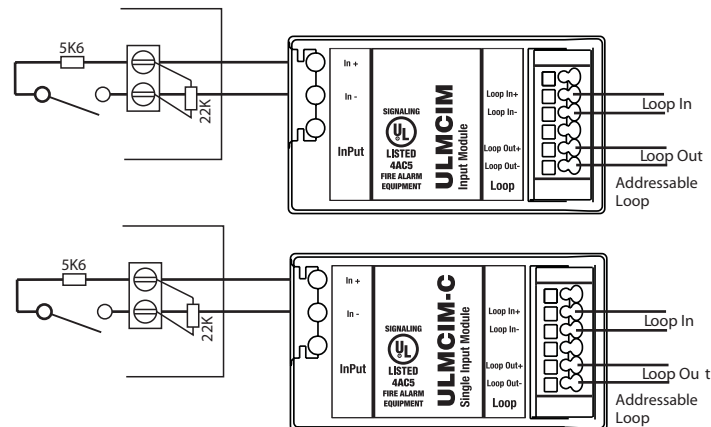
Code	ULMCIM / ULMCIM-C
Description	Single Channel Input Units
Standards	UL864 9 th edition
Signalling Line Circuit (Style 7, Class A, Supervised, Power Limited)	
Current	332µA
Operating Voltage	24V dc
Input (Initiating Circuit Class B, Style C, Supervised, Power Limited)	
Voltage	8.4Vpp (pulsed every 1 sec)
Current	1.2mA
Trigger Resistance	5.6kΩ
End Of Line Resistor	22kΩ
Line Impedance	16 (max)
Environmental	
Operating Temperature	0°C to 49°C
Humidity (Non Condensing)	0 to 93 %RH
Physical	
Dimensions (H x W x D)	65mm x 35mm x 18.5mm
Weight	>0.1kg
Ingress Protection	IP40
Compatibility	
Suitable for use with	Cooper UL Fire Systems

Notes:

No addressing of the interface is required (see control panel operation for details).

Interface needs to be programmed as a pull station on site installer software.

Standard Connections



Note:

1. The end of line resistor provided must always be fitted, even if the input is unused.
2. Monitored inputs can detect open or short circuit faults.
3. Recommended loop cable type: FIRETUF, FP200, MICC.

Description	SLC Field Wiring Circuit (Input)	Single Channel Input
Wiring Gauge	12 Max AWG	12 Max AWG
Wiring Class	Class A Style 7	Class B Style C
Ground Fault Impedance	0.1Ω	0.1Ω
Supervised, Power Limited	Yes	Yes

Product Codes

Code	Description
ULMCIM	Micro Single Channel Input Unit (recognised as input unit)
ULMCIM-C	Micro Single Channel Input Unit (recognised as pull station)
ULBU	Micro Module Box Unit (empty box)

Product Code	Description	Certificate Number
ULCF30002G	2 Loop Panel	20101230-S24837
ULCF30004G	4 Loop Panel	20101230-S24837
ULCF30002GP	2 Loop Panel, Integral Printer	20101230-S24837
ULCF30004GP	4 Loop Panel, Integral Printer	20101230-S24837
ULCF30002GNC	2 Loop Panel, Network Card	20101230-S24837
ULCF30004GNC	4 Loop Panel, Network Card	20101230-S24837
ULCF30002GPNC	2 Loop Panel, Integral Printer, Network Card	20101230-S24837
ULCF30004GPNC	4 Loop Panel, Integral Printer, Network Card	20101230-S24837
ULCF30002GRM	2 Loop Panel, Red Metal Box	20101230-S24837
ULCF30004GRM	4 Loop Panel, Red Metal Box	20101230-S24837
ULCF30002GPRM	2 Loop Panel, Integral Printer, Red Metal Box	20101230-S24837
ULCF30004GPRM	4 Loop Panel, Integral Printer, Red Metal Box	20101230-S24837
ULCF30002GNCRM	2 Loop Panel, Network Card, Red Metal Box	20101230-S24837
ULCF30004GNCRM	4 Loop Panel, Network Card, Red Metal Box	20101230-S24837
ULCF30002GPNCRM	2 Loop Panel, Integral Printer, Network Card, Red Metal Box	20101230-S24837
ULCF30004GPNCRM	4 Loop Panel, Integral Printer, Network Card, Red Metal Box	20101230-S24837
ULR3000L2	2 Loop Control Panel (rack mount)	20101230-S24837
ULR3000L4	4 Loop Control Panel (rack mount)	20101230-S24837
ULCTPR3000	Intelligent Addressable Touch-Screen Repeater Panel	20101214-S24988
ULCF3000PR	Intelligent Addressable Passive Repeater Panel	20101214-S24988
ULCAP320	Intelligent Addressable Sensor, Optical	20110629-S24205
ULCAPT340	Intelligent Addressable Sensor, Photo-Thermal	20110629-S24205
ULCAH330	Intelligent Addressable Sensor, Multi-Mode Heat	20110629-S24246
UCAB300	Intelligent Addressable Sensor Standard Base	20111401-S24205
UCPD-2W	Conventional 2-Wire Detector, Optical	20120109-S24205
UCPT-2W	Conventional 2-Wire Detector, Photo-Thermal	20120109-S24205
UCHT-2W	Conventional 2-Wire Detector, Fixed Heat 135°F	20120109-S24246
UCHTI-2W	Conventional 2-Wire Detector, Fixed Heat 194°F	20120109-S24246
UCHR-2W	Conventional 2-Wire Detector, Rate of Rise and Fixed Heat 135°F	20120109-S24246
UCHRI-2W	Conventional 2-Wire Detector, Rate of Rise and Fixed Heat 194°F	20120109-S24246
CIR301	Remote Indicator	20111128-S25100
ULCAS380	Intelligent Addressable Sounder Base	20111115-S24205
ULCZMU352	Zone Monitor Unit	20101214-S24988
ULCSUM355	Shop Monitor Unit	20101214-S24988
ULCSI350	Spur Isolator Unit	20101214-S24988
ULCIO351	3 Channel I/O Unit	20101214-S24988
ULCMIO353	120V ac / 230V ac Relay Unit	20101214-S24988
ULMIU872	Micro Zone Monitor Unit	20101214-S24988
ULMCOM	Micro Single Channel Output Unit (recognised as output unit)	20101214-S24988
ULMCOM-S	Micro Single Channel Output Unit (recognised as sounder)	20101214-S24988
ULMCIM	Micro Single Channel Input Unit (recognised as input unit)	20101214-S24988
ULMCIM-C	Micro Single Channel Input Unit (recognised as pull station)	20101214-S24988

Product Code	Description	Page
1UPLATE	1 Unit Blanking Plate	7
2UPLATE	2 Unit Blanking Plate	7
3UPLATE	3 Unit Blanking Plate	7
6UPLATE	6 Unit Blanking Plate	7
CB2E	Conventional 2-Wire Standard Base	19
ECRACKPACK43	Pack of 4 Fixings (1 required per blanking plate)	7
CIR301	Remote Indicator	21
HNR	Horn, Wall Mount	27
HNWC	Horn, Ceiling Mount	27
HSR	Horn Strobe, Wall Mount	29
HSWC	Horn Strobe, Ceiling Mount	29
RSSWP-2475C-FW	External Strobes, Ceiling Mount	33
RSSWP-2475W-FR	External Strobes, Wall Mount	33
SBG325	Back Box for Pull Station, Surface Mount – Sheet Metal	23
SG42BK1	Pull Station Dual Action – Conventional Systems	23
SG42BK2	Pull Station Single Action – Conventional Systems	23
STR	Internal Strobes, Wall Mount	31
STWC	Internal Strobes, Ceiling Mount	31
UCAB300	Intelligent Addressable Standard Base	15
UCHR-2W	Conventional 2-Wire Detector, Rate of Rise and Fixed Heat 135°F	17
UCHRI-2W	Conventional 2-Wire Detector, Rate of Rise and Fixed Heat 194°F	17
UCHT-2W	Conventional 2-Wire Detector, Fixed Heat 135°F	17
UCHTI-2W	Conventional 2-Wire Detector, Fixed Heat 194°F	17
UCPD-2W	Conventional 2-Wire Detector, Optical	17
UCPT-2W	Conventional 2-Wire Detector, Photo-Thermal	17
ULBU	Mini Module Box Unit (supplied without micro units)	47 /49 /51
ULCAH330	Intelligent Addressable Sensor, Multi-Mode Heat	13
ULCAP320	Intelligent Addressable Sensor, Optical	13
ULCAPT340	Intelligent Addressable Sensor, Photo-Thermal	13
ULCAS380	Intelligent Addressable Sounder Base	25
ULCASC	Sounder Cover Plates (pack of 5)	25
ULCF30002G	2 Loop Panel	5
ULCF30002GNC	2 Loop Panel, Network Card	5
ULCF30002GNCRM	2 Loop Panel, Network Card, Red Metal Box	5
ULCF30002GP	2 Loop Panel, Integral Printer	5
ULCF30002GPNC	2 Loop Panel, Integral Printer, Network Card	5
ULCF30002GPNCRM	2 Loop Panel, Integral Printer, Network Card, Red Metal Box	5
ULCF30002GPRM	2 Loop Panel, Integral Printer, Red Metal Box	5
ULCF30002GRM	2 Loop Panel, Red Metal Box	5
ULCF30004G	4 Loop Panel	5
ULCF30004GNC	4 Loop Panel, Network Card	5
ULCF30004GNCRM	4 Loop Panel, Network Card, Red Metal Box	5
ULCF30004GP	4 Loop Panel, Integral Printer	5
ULCF30004GPNC	4 Loop Panel, Integral Printer, Network Card	5
ULCF30004GPNCRM	4 Loop Panel, Integral Printer, Network Card, Red Metal Box	5
ULCF30004GPRM	4 Loop Panel, Integral Printer, Red Metal Box	5
ULCF30004GRM	4 Loop Panel, Red Metal Box	5
ULCF3000PR	Intelligent Addressable Passive Repeater Panel	11
ULCIO351	3 Channel I/O Unit	43
ULCMIO353	120V ac / 230V ac Relay Unit	45
ULCS354	4 Way Sounder Controller Unit	35
ULCSI350	Spur Isolator Unit	41
ULCSUM355	Shop Monitor Unit	39
ULCTPR3000	Intelligent Addressable Touch-Screen Repeater Panel	9
ULCZMU352	Zone Monitor Unit	37

Product Code	Description	Page
ULMCIM	Micro Single Channel Input Unit (recognised as input unit)	51
ULMCIM-C	Micro Single Channel Input Unit (recognised as pull station)	51
ULMCOM	Micro Single Channel Output Unit (recognised as output unit)	49
ULMCOM-S	Micro Single Channel Output Unit (recognised as sounder)	49
ULMIU872	Micro Zone Monitor Unit	47
ULR3000L2	2 Loop Control Panel (rack mount)	7
ULR3000L4	4 Loop Control Panel (rack mount)	7
ULRACK1924	19 Inch Floor Rack Unit (height 24" - 10 RMU)	7
ULRACK1930	19 Inch Floor Rack Unit (height 30" - 13 RMU)	7
ULRACK1944	19 Inch Floor Rack Unit (height 44" - 21 RMU)	7
ULRACK1954	19 Inch Floor Rack Unit (height 54" - 27 RMU)	7
ULRACK1979	19 Inch Floor Rack Unit (height 79" - 41 RMU)	7
UMPS-100	Pull Station Single Action (SG42BK2 & ULMCIM-C) - Intelligent Addressable systems	23
UMPS-200	Pull Station Dual Action (SG42BK1 & ULMCIM-C) - Intelligent Addressable systems	23
WFP	Back-Box for External Strobe, Flush Mount	33

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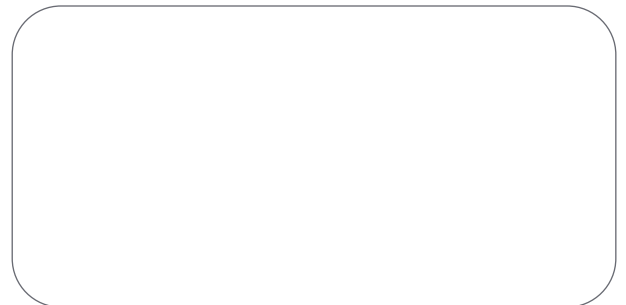
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