# ULCSUM355 - UL shop monitor unit





An extensive range of interfaces are available to support the Eaton 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 Eaton UL conventional detector/bases supported. It also supports a zone of pull stations as well as 2 conventional sounder circuits.

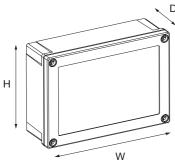
An external power supply is required to drive the 2 conventional sounder circuits. This power supply must be UL1481 listed, regulated for fire and current limited.

### **Features and benefits**

- 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
- 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**



H	W	D	
(mm)	(mm)	(mm)	
129	180	60	Ī

# Installation

- 1. Separate the two halves of the unit and remove the PCB.
- 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. Refit the PCR
- 4. Connect the unit according to the standard connection diagram supplied with the unit.

# **Operation**

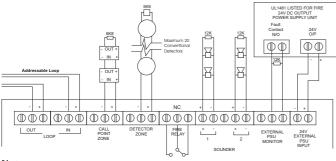
#### Pull station zone:

Normal standby / alarm / nac silenced / alarm reset / fault / supervisory / drill

# **Detector zone:**

Normal standby / alarm / fault.

# **Standard connections**



#### Note:

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

SLC field wiring (Input)	Pull station zone	De- tector zone	Sound- er 1 Sound- er 2	24 V dc external supply	PSU external monitor
12	12	12	12	12	12
Max AWG	Max AWG	Max AWG	Max AWG	Max AWG	Max AWG
Class A Style 7	Class B Style 7	Class B Style C	Class B Style C	N/A Style Y	N/A
0.1 ohm	0.1 ohm	0.1 ohm	0.1 ohm	TBD Power Supply	TBD Power Supply
Yes	Yes	Yes	Regulated supervised Power	Supervised power limited	Supplemen- tary
	field wiring (Input) 12 Max AWG Class A Style 7 0.1 ohm	field wiring (Input) station (Input) zone  12 12 Max Max AWG Class A Style 7  0.1 ohm 0.1 ohm	field wiring (Input)         Pull station zone         Description tector zone           12         12         12           Max         Max         Max           AWG         AWG         AWG           Class B         Style 7         Style C           0.1 ohm         0.1 ohm         0.1 ohm	field wiring (Input)         Pull station zone         De- tector zone         er 1 Sound- er 2           12         12         12         12           12         12         12         12           Max AWG AWG AWG         AWG         AWG         AWG           Class A Style 7         Style 7         Style C         Style C           0.1 ohm         0.1 ohm         0.1 ohm         0.1 ohm           Yes         Yes         Regulated supervised	field wiring (Input)         Pull station zone         Detector zone         er 1 supply         24 V dc external external supply           12         12         12         12         12         12           Max AWG AWG         Max AWG AWG         Max AWG         Max AWG         Max AWG           Class A Style 7         Style 7         Style C Style C Style C Style Y         Style Y           0.1 ohm         0.1 ohm         0.1 ohm         D.1 ohm         TBD Power Supply           Yes         Yes         Regulated supervised supervised power         Supervised power

# **Technical specification**

Voltage	Shop monitor unit UL864 9th edition
Signalling line circuit (Style 7, Cl Voltage	UL864 9th edition
Voltage	
	lass A, Supervised, Power Limited)
	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-2W, UCHT-2W, UCHR-2W, UCHTI-2W
Compatibility identifier	ULCV1
Sounder 1, sounder 2 (Style Y, C	lass 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, I	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)	129mm x 180mm x 60mm
Weight	0.28kg
Ingress protection	IP65
Compatibility	

# **Catalogue numbers**

Description	Code	
Shon monitor unit	LIL CSLIM355	