

ULCSC354 - UL 4 way sounder controller 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 listed 4 way sounder controller unit (ULCSC354) 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 and benefits

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

Specifier's guide

3.5 Standard interfaces

Technical specification

Code	ULCSC354
Description	4 way sounder controller unit
Standards	UL864 9th 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	Eaton UL fire systems

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

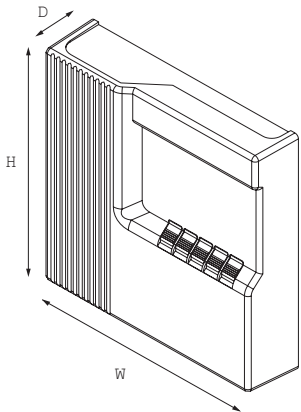
Normal standby / alarm / fault

Notes:

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

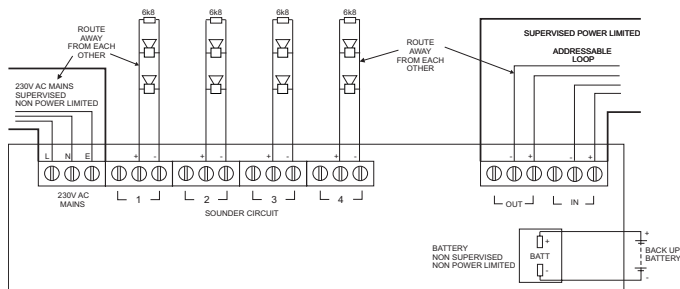
This unit requires a permanent 120/230V ac supply.

Dimensions



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

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 they are fitted.
2. The ANSI pattern tone 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

Catalogue numbers

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4 way sounder controller unit	ULCSC354