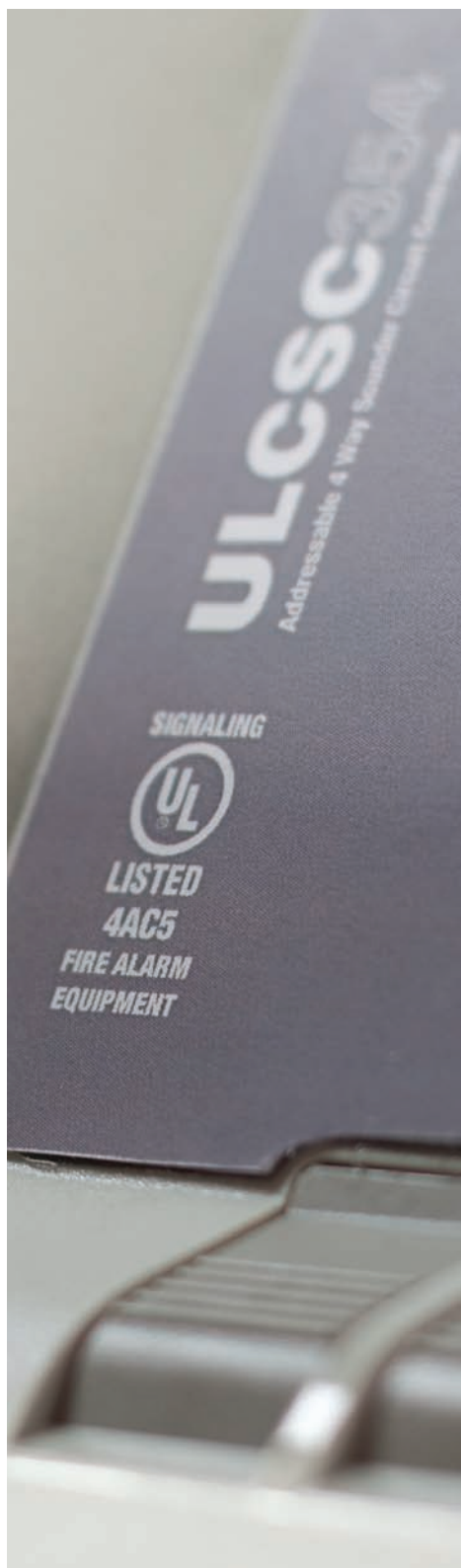


4 Way Sounder Controller Unit



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.

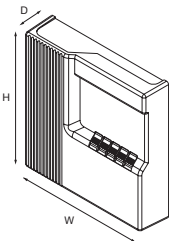
Features

- 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 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 | 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.

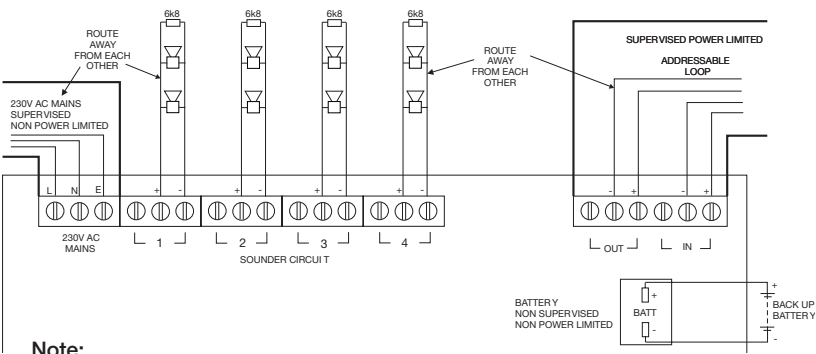
Installation

- 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 |