

Addressable Loop Powered Audible Visual Devices Specification

Compliance with standards

Intelligent Addressable Sounders shall be third party approved to EN54 part 3 and shall be the primary means of evacuation.

Visual Alarm Devices (VADs) complying to EN54-23 are only required if they are considered to be the primary source of evacuation to building occupants as defined within the building's fire risk assessment.

Visual Indicating Devices (VIDs) can provide useful supplementary indication that may increase the awareness of people to an event.

Functionality

Six basic product groups shall be available consisting of:

- Wall mounting sounders;
- Wall mounting sounders & combined Visual Alarm Device;
- Wall or ceiling mounting Visual Alarm Devices;
- Base sounders for use beneath detectors;
- Base sounders & combined supplementary indicator for use beneath detectors;

Intelligent Addressable Audible Visual Devices shall operate on a digital protocol to give reduced power consumption, upto 159 detectors and 159 modules may be connected to a single loop.

Intelligent Addressable Audible Visual Devices shall be fitted with a loop isolation device in-built into the device.

Location of devices on the loop circuit shall with the aid of a Loop Mapping Tool be able to identify it's location and address on the loop, allowing for a schematic layout drawing to be produced and printed for use in the O&M manual.

The warning devices shall fit to a common mounting plate incorporating a twist-lock bayonet fitting.

Warning devices shall connect with two wires to one of the C.I.E. Signalling Line Circuit loops and derive the control and power from this single connection.

Address setting

The warning devices shall provide address setting on the device using decimal switches.

Addressable warning devices that use binary address setting methods, such as a dip switch, code cards or soft addressing are not acceptable.

The warning device shall also feature an internal identifying code that the C.I.E. shall use to identify the type of device.

Tone and volume settings

The audible warning devices shall have 32 different tone settings, which shall be site configurable.

The audible warning device shall have up to 8 distinguishable tone settings, which can be operated via C.I.E programming or remote input i.e. Class Change, Bomb Alert.

The audible warning devices shall have three volume settings, which shall be site configurable, from the C.I.E. or at the device.

Additional requirements

Up to 159, warning devices may connect to one SLC loop.

The wall-mounting units shall have a waterproof mounting option for external fitting.

Base sounder and combined base sounder / supplementary indicators shall not require an additional detector base.