Addressable Control Module Specification

Compliance with standards

The Control Modules shall be third party certified to CEA GEI 1-082 and CEA GEI 1-084.

General

Addressable Control Modules shall be provided to supervise and control the operation of one conventional indicating circuit of compatible, 24 Vdc powered, polarised audio/visual indicating appliances.

For fan shutdown and other auxiliary control functions, the control module may be set to operate as a Volt Free relay contact and shall connect to one of the C.I.E. Signalling Line Circuit Loops.

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

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 Control Modules shall mount in a purpose made surface mount box, panel mount clip for mounting in to other equipment housings or on a DIN rail mounting clip.

The Control Modules shall include loop isolation in each unit, which shall be installer selectable as required.

Functionality

The indicating circuit shall be capable of powering a maximum of 1.5 Amps of Resistive audio visual signalling equipment, or as a Volt Free Contact (Form C) Relay shall be capable of switching 2 Amps @ 30Vdc.

The relay coil shall be magnetically latched to reduce wiring connection requirements, and to ensure that 100% of all auxiliary relay or indicating circuits may be energised at the same time on the same Signalling Line Circuit Loop.

Audio visual power shall be provided by a separate supervised power connection from the main C.I.E. or from a supervised remote power supply approved to EN54 Pt2.

Control Modules shall be loop powered and addressable devices, and shall connect with two wires to one of the C.I.E. Signalling Line Circuits.

Address setting

The Control Modules shall provide address setting on the module using decimal switches.

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

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

Address switches shall be viewed in two plains such that the address is visible when mounted in a surface mount box or DIN / panel mounted.

Visual indication

The Control Module shall provide bi-colour LED's. The LED's enable red, amber and green local status indication also indicating that the module is operational and in regular communication with the C.I.E.

The LED's shall be configurable from the C.I.E to give visual indication of:

- Device Healthy
- Fire
- Fault – Isolation in use
- Test Mode

If required, the flashing mode operation of the Control Module LED shall be controlled through the system field program.

Additional requirements

Up to 159, addressable Control Modules may connect to one Signalling Line Circuit Loop.