

803-0010 Sita Conventional Zone Module

General Description

The Conventional Zone Module provides an interface between ancillary devices and the loop. It can be used to connect conventional type fire detection devices to the system with the provision for head removal monitoring. The unit may be powered directly from the loop or from a remote PSU. Digital communication technology to the control panel is implemented, allowing for accurate data transfer at high transmission speeds. This device is only compatible with the Duonet and Quadnet range of control panel.

Before Installation

The CZM must be installed in compliance with the control panel installation manual. The installation must also meet the requirements of any local authority and BS5839 Pt1 : 2002 + A2 : 2008.

Positioning

The module should be mounted securely and care should be taken to ensure the device is accessible for future maintenance.

Device Installation

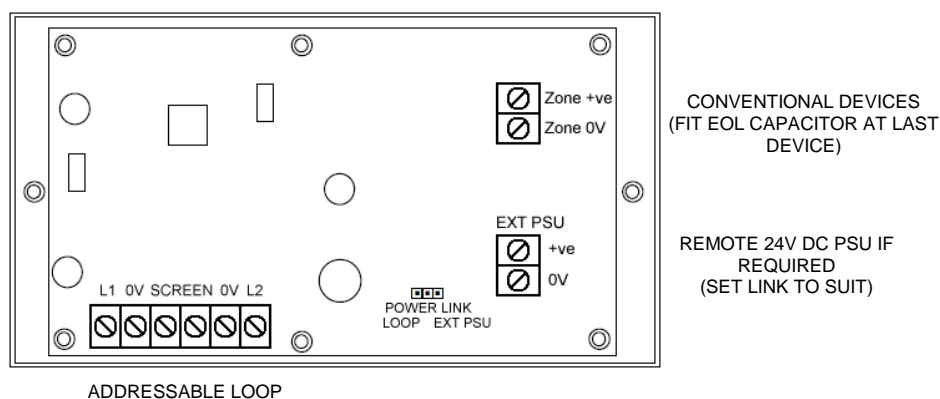
All wiring must be installed in compliance with the recommendations laid out by BS5839 Pt1 : 2002 as well as any special recommendations documented in the control panel installation manual. **The cabling used should be of a 2-core 1.5mm² screened, fire resistant type, and is to be wired in the form of a screened 2-core loop returning to the control panel. The use of spurs on this system is not permitted.** Care should be taken when terminating devices to ensure all cables are correctly sleeved and connections are secure. Improper connections will prevent a system from responding properly in the event of a fire.

The L1 (positive) and the L2 (positive) connections are split within the module, for cable continuity readings at the commissioning stage they must be temporarily removed and connected through. Please remember that all high voltage testing must be carried out before the installation of the electronics, otherwise the electronics will be damaged. Please also note that the Screen terminals should only be connected to the loop screen and NOT the building earth. The Zone screen does not need to be connected.

Also the EXT PSU screen does not need to be connected. This cable must not be greater than 3 metres in length.

Once all testing has been carried out on the cabling and **continuity & insulation** has been proven, then the CZM can be connected.

Before installing the module remember to note the serial number of the device (located on the rear of the unit) on to your drawings or configuration sheets to enable you to prove its location later. The address allocation for the device is carried out automatically by the control panel whilst in initialisation mode, so addresses do not need to be set manually. See the system Installation and Operating Instructions for further details.



ADDRESSABLE LOOP

| Terminal | Description |
|-------------|--|
| L1 | Loop +Ve IN |
| 0V | Loop -Ve IN |
| Screen | Loop Screen |
| Screen | Loop Screen |
| 0V | Loop -Ve OUT |
| L2 | Loop +Ve OUT |
| EXT PSU +VE | External Supply +V Connection, 3 Metres Max Length |
| EXT PSU 0V | External Supply 0V Connection, 3 Metres Max Length |
| ZONE +VE | +V Supply to Conventional Zone |
| ZONE 0V | 0V Supply to Conventional Zone |

Device Compatibility

Whilst modern conventional detectors tend to operate with a very low quiescent current allowing a maximum of 20 devices per module, some older detectors draw a much higher quiescent current. Therefore it is not possible to list which detectors, or their quantities, may be correctly connected to this unit. Ensure that any devices connected are well tested under all load conditions to ensure that they operate correctly.

For lightly loaded zones up to 3mA the 10uF EOL capacitor should be used, but for higher quiescent loads or loads with a high start up current the 22uF EOL capacitor may be required. Capacitors are polarity conscious so check that the EOL capacitor is connected the right way round i.e. the capacitor negative (—) connected to the Zone 0V.

Technical Data

| | | |
|-------------------------------|-----------------|---|
| Dimensions: | Overall | 146mm x 87mm x 41mm |
| | Back box | 146mm x 87mm x 32mm |
| Operating temperature: | | -10°C to +50°C. |
| Voltage Range: | | 24 to 42v DC |
| Input: | EOL | 10 µF to 22uF capacitor |
| | Firing resistor | 680R |
| Zone Capacity: | | 20mA / maximum of 20 conventional devices |
| LED Indication: | Normal | 20s interval |
| | Fault | 5s interval |
| | Activated | 0.3s interval |

System Compatibility: Duonet and Quadnet V1 onwards.

| PRODUCT DESCRIPTION | | | LOOP CURRENT (mA) | | | | |
|---------------------|--------------|------------------------------------|-------------------|--------|-----|--------|------|
| Type | Product Code | Name | Quiescent | Active | Low | Medium | High |
| CZM | 803 0010 | Conventional Zone Module | 11.22 | 23.40 | | | |
| CZM | 803 0010 | Conventional Zone Module (Ext PSU) | 0.40 | 3.40 | - | - | - |

| | | | BATTERY CURRENT (mA) | | | | |
|------|--------------|------------------------------------|----------------------|--------|-----|--------|------|
| Type | Product Code | Name | Quiescent | Active | Low | Medium | High |
| CZM | 803 0010 | Conventional Zone Module | 11.22 | 48.75 | | | |
| CZM | 803 0010 | Conventional Zone Module (Ext PSU) | 0.40 | 7.09 | - | - | - |


| | | | DLU RATING (QUADNET / DUONET SYSTEM) | | | |
|------|--------------|---|--------------------------------------|-----|--------|------|
| Type | Product Code | Name | Active | Low | Medium | High |
| CZM | 803 0010 | Conventional Zone Module (Loop Powered) | 23.5 | - | - | - |
| CZM | 803 0010 | Conventional Zone Module (Ext PSU) | 3.5 | - | - | - |

Technical Support

Contact your supplier for technical support on this product.

Due to the complexity and inherent importance of a life risk type system training on this equipment is essential, and commissioning should only be carried out by competent persons. Fike cannot guarantee the operation of any equipment unless all documented instructions are complied with, without variation.

Fike's policy is one of continual improvement and the right to change a specification at any time without notice is reserved. Whilst every care has been taken to ensure that the contents of this document are correct at time of publication, Fike shall be under no liability whatsoever in respect of such contents.
E&OE

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|---|-------------|
| Fike Safety Technology Ltd Unit 31, Springvale Ind. Est. Torfaen, NP44 5BD 14 DoP-803-0010 | |
| EN54-18: 2005 803-0010 Intended for use in the fire detection and fire alarm Systems in and around buildings | |
| Essential characteristics | Performance |
| Nominal activation conditions/Sensitivity, Response delay (response time) and performance under fire conditions | Pass |
| Operational reliability | Pass |
| Tolerance to supply voltage | Pass |
| Durability of operational reliability and response delay, Temperature resistance | Pass |
| Durability of operational reliability, Vibration resistance | Pass |
| Durability of operational reliability, Humidity resistance | Pass |
| Durability of operational reliability, Corrosion resistance | Pass |
| Durability of operational reliability, Electrical stability | Pass |
| Response delay (response time) | Pass |