

## 803-0006 Sita Loop I/O Module Mk2

### General Description

The Loop I/O module provides an interface between ancillary devices and the loop. It can be configured as an input allowing for reporting from other systems / devices or as an output to control external systems. 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 Sita200plus, Duonet and Quadnet range of control panel.

### Before Installation

The I/O module 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.

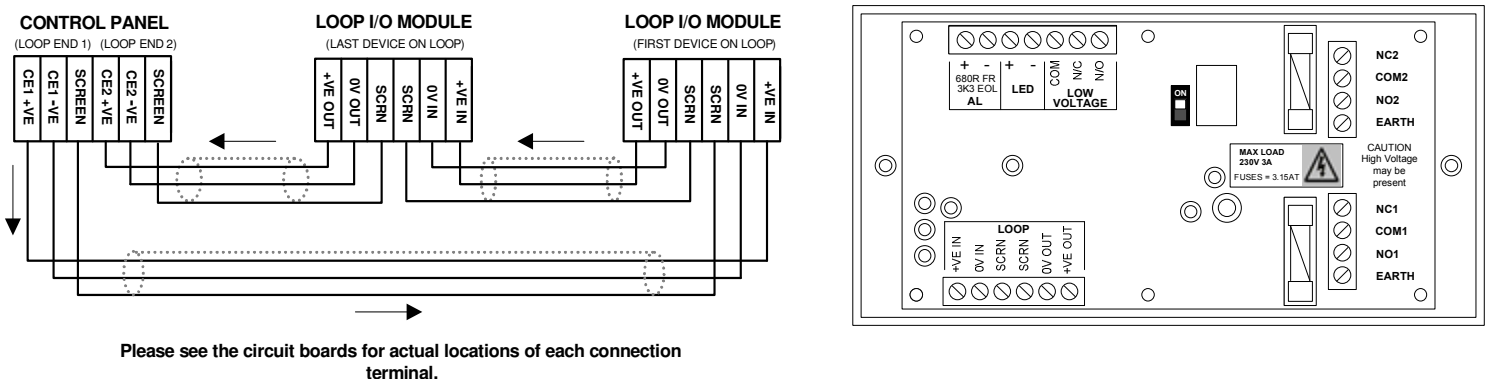
### Device Installation

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 1.5mm<sup>2</sup> 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 Loop IN +Ve (positive) and the Loop OUT +Ve (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 SCRNM terminal should only be connected to the loop screen and NOT the building earth.

Once all testing has been carried out on the cabling and **continuity & insulation** has been proven, the I/O Unit can be connected.

### Connection Schematic



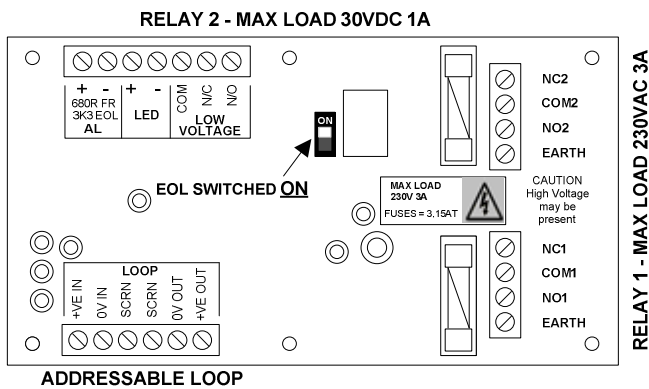
Before installing the module remember to note the serial number of the device (located on the rear of the unit) on to your drawings or configuration sheets to enable you to prove its location later. The address allocation for the device is carried out automatically by the control panel whilst in initialisation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

## Device Settings

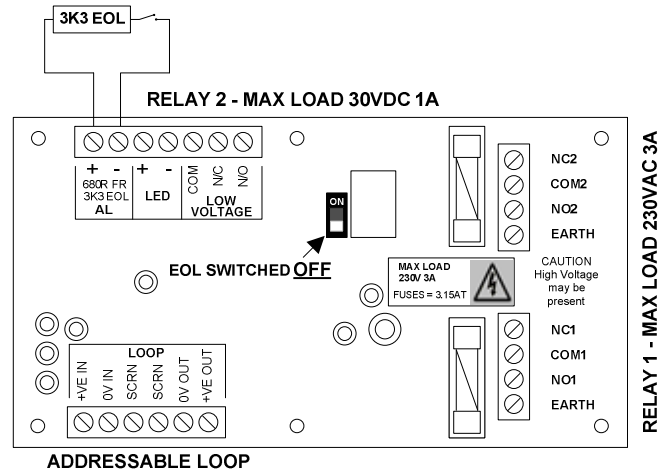
The I/O settings are configured using the relevant panel software configuration package.

The Loop I/O Module may be connected to the addressable circuit in order to provide an input to, or an output from the fire alarm system. The unit may be configured as an input or an output, not both. The physical connections are shown below.

### Output Relay without Fault Monitoring



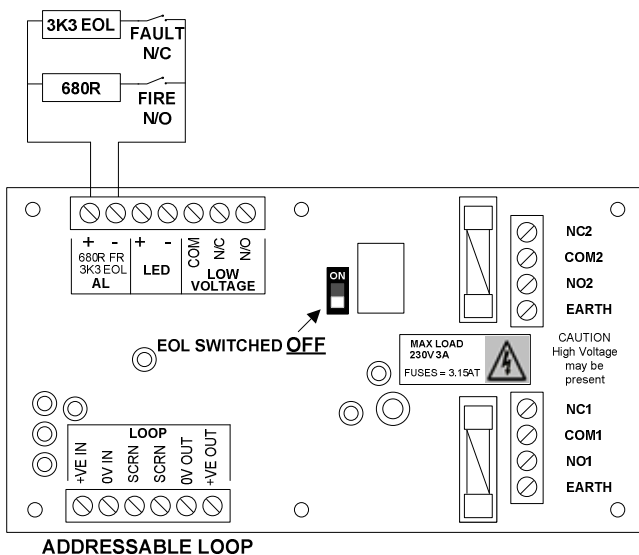
### Output Relay with Fault Monitoring



For use as a simple 'change-over' relay output, connect as shown on the left, remembering to set the EOL (end of line) switch to ON.

For use as a 'change-over' relay output with fault monitoring, connect as shown on the right, remembering to set the EOL (end of line) switch to OFF, and to use a volt free fault contact to break the EOL circuit in order to generate a fault condition.

### Input with Fault Monitoring



For use as a fault monitored input, connect as shown on the right, remembering to set the EOL (end of line) switch to OFF.

Use a volt free fire contact to make the circuit in order to generate a fire condition and a volt free fault contact to break the circuit in order to generate a fault condition.

## Technical Data

<b>Dimensions:</b>	Overall	146mm x 87mm x 41mm
	Back box	146mm x 87mm x 32mm
<b>Operating temperature:</b>		-10°C to +50°C.
<b>Voltage Range:</b>		24 to 42v DC
<b>LED Indication:</b>	Output Activated	LED on
<b>Contact Rating:</b>	Relay 1	Max load 230V AC 3A (DPCO)
	Relay 2	Max load 30V DC 1A (SPCO)
<b>Fuses:</b>	Fuse 1, Fuse 2	3.15A Antisurge 20mm Ceramic (eg. Bussman S505-3.15A)

**Important note:** All 230V AC mains voltage connections should switch both Live and Neutral. The installation of these connections should only be carried out by suitably qualified persons whilst the mains supply is fully isolated.

**System Compatibility:** Sita200plus V2.30 onwards.  
Duonet and Quadnet V1 onwards.

PRODUCT DESCRIPTION			LOOP CURRENT (mA)				
Type	Product Code	Name	Quiescent	Active	Low	Medium	High
I/O	803 0006	Loop I/O Module MK2	0.46	10.11	-	-	-

			BATTERY CURRENT (mA)				
Type	Product Code	Name	Quiescent	Active	Low	Medium	High
I/O	803 0006	Loop I/O Module MK2	0.46	21.06	-	-	-

			DLU RATING			
Type	Product Code	Name	Active	Low	Medium	High
I/O	803 0006	Loop I/O Module MK2	10.5	-	-	-

## 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.

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