

FYREYE MKII ADDRESSABLE SOUNDER CONTROL MODULE WITH ISOLATOR INSTALLATION GUIDE

General

The Fyreye MkII Addressable Sounder Control Module is supplied with a backbox for surface mounting.

NOTE: The Sounder Control Module is designed for indoor use only.

This module is NOT LOOP POWERED, an adequate 24Vdc input is required with the necessary battery back up. Note the input voltage should provide adequate current to operate the ZASC-MI in addition to operating the connected alarm load.

Model No: ZASC-MI Fyreye MkII Addressable Sounder Control Module With Isolator

Surface Mounting

- 1. Mount the backbox as required and install all cables for termination.
- 2. Set the address of the unit as shown on page 3.
- 3. Terminate all cables.
- Gently push the completed assembly towards the back box until the mounting holes are aligned and secure with the two mounting screws provided. DO NOT OVERTIGHTEN

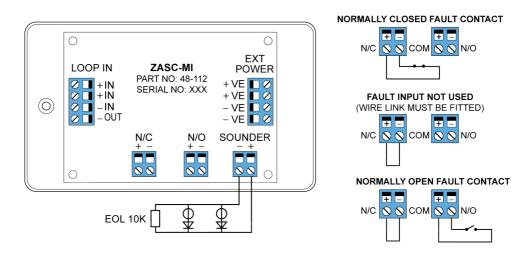
Isolator Module

The Sounder Control Module is fitted with a bi-directional short-circuit isolator and will be unaffected by loop short-circuits on either loop input or output.

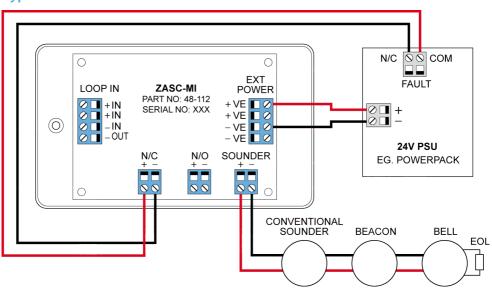
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Wiring Details

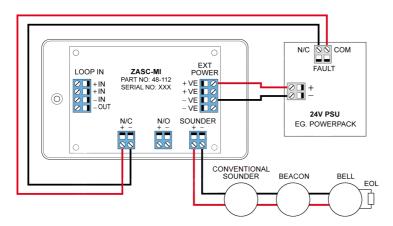
All wiring terminals will accept solid or stranded cables up to 2.5mm²



Typical Connections



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Technical Specification

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Model	ZASC-MI
Part Number	48-112
Operating Voltage (Loop)	17 - 28V DC
Quiescent Current (Loop)	0.6 mA
Fault Current (Loop)	0.6 mA
Sounder On Current (Loop)	0.8 mA
Operating Voltage (Ext. Power)	9-32V DC
Quiescent Current (Ext. @ 24V)	2 mA
Sounder On Current (Ext. @ 9V)	2.5mA Plus Sounder Load
Sounder On Current (Ext. @ 32V)	9.5mA Plus Sounder Load
Sounder Output Rating	500 mA
Isolating Current	7.3mA
Sounder End of Line	10K (tolerance 7.5K to 15K)
Operating Temperature	-10°C to +55°C
Max Humidity	95% RH Non Condensing
IP Rating	IP21C
Size	150 x 90 x 45 mm
Weight	220g

For information on the short circuit isolator operation see document GLT-224-6-9 available from your distributor.

Address Setting

The address of the Sounder Control Module is set using the eight segments of the DIL switch. Each segment of the switch must be set to "0"(ON) or "1"(OFF), using a small screwdriver or similar tool. A complete list of address settings is shown overleaf. The maximum address is 250.

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	1	1		1	1	1		
ADDRESS	SW1	SW2	SW3	SW4	SW5	SW6	ZW2	SW8
0								
1	OFF	ON	ON	ON	ON	ON	ON	ON
2	ON	OFF	ON	ON	ON	ON	ON	ON
3	OFF	OFF	ON	ON	ON	ON	ON	ON
4	ON	ON	OFF	ON	ON	ON	ON	ON
5	OFF	ON	OFF OFF	ON	ON	ON	ON	ON
6	ON	OFF	OFF	ON	ON	ON	ON	ON
7	OFF	OFF	OFF	ON	ON	ON	ON	ON
8	ON	ON	ON	OFF	ON	ON	ON	ON
9	OFF	ON	ON	OFF	ON	ON	ON	ON
10	ON	OFF	ON	OFF	ON	ON	ON	ON
11	OFF	OFF	ON OFF	OFF OFF	ON ON	ON ON	ON ON	ON
13	ON OFF	ON ON	OFF	OFF	ON	ON	ON	ON
14	ON	OFF	OFF	OFF	ON	ON	ON	ON
15	OFF	OFF	OFF	OFF	ON	ON	ON	ON
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24	ON	ON	ON	OFF	OFF	ON	ON	ON
25	OFF	ON	ON	OFF	OFF	ON	ON	ON
26	ON	OFF	ON	OFF	OFF	ON	ON	ON
27	OFF	OFF	ON	OFF	OFF	ON	ON	ON
28	ON	NO	OFF	OFF	OFF	ON	NO	ON
30	OFF ON	ON OFF	OFF OFF	OFF OFF	OFF OFF	ON ON	ON	ON
31	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
32	ON	ON	ON	ON	ON	OFF	ON	ON
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196	ON	ON	OFF	ON	ON	ON	OFF	OFF
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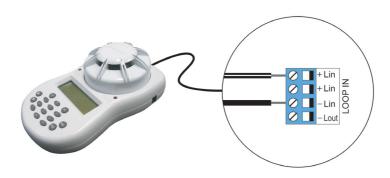
Author: NRP Jones Date: 10/05/2021

Alternative Soft Addressing Option

Using our hand held MkII programmer (Part No: 48-004), the unit can be addressed electronically.

Step 1: Set all addresses to zero 0000000

Step 2: Connect leads to LOOP IN+ and LOOP IN- as shown below



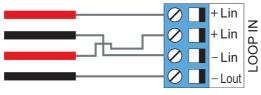
Step 3: Follow the procedure as described in the handheld programmer manual.

NOTE: When a device is soft addressed as above, the address CANNOT BE CHANGED by mechanical setting of the dip-switch. In order to re-enable the dip-switch the unit needs to be set electronically back to zero first.

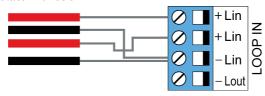
Isolator Function

The Isolator Function can be enabled or disabled according to the wiring method.

B. Enabling the Isolator Function



A. By-passing the Isolator Function



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LED Indications

Status	LED Indication
Alarm	Illuminated red when the Sounder Control Module is in alarm
Fault	Illuminated yellow when the Sounder Control Module is in fault
Open	Illuminated yellow when the sounder input is in open state
Short	Illuminated yellow when the sounder input is in short state
Polling	Flashed green when the module is communicating with the panel
Isolating	Illuminated yellow when the loop is short or wrong connection circuit
Ext Power	Illuminated green when Ext Power is connected correctly
Input	Illuminated when no external fault signal present

Functional Test Data

Command Bit	Function	Input Bit	Function
3	Not Used	3	Not Used
2	Not Used	2	Not Used
1	PULSED MODE	1	PULSE MODE CONFIRMED
	1 = Pulsed Mode On		1 = Pulsed Mode On Confirmed
	0 = Pulsed Mode Off		0 = Pulsed Mode Off Confirmed
0	CONTINUOUS MODE	0	CONTINUOUS MODE CONFIRMED
	1 = Continuous Mode On		1 = Continuous Mode On Confirmed
	0 = Continuous Mode Off		0 = Continuous Mode Off Confirmed

Analogue Return Back

Analogue value	08	72
State	Open/short circuit	Normal
LED State		

Troubleshooting

Before investigating individual units for faults, it is very important to check that the system wiring is fault free. Many fault conditions are the result of simple wiring errors. Check all connections to the unit and make sure that the correct value resistors are fitted where necessary.

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Faultfinding

Problem	Possible Cause
No response or missing	Incorrect address setting
	Incorrect loop wiring
Fault condition reported	Ilncorrect address setting
	Incorrect wiring of sounder zone or fault input
	Faulty sounder
	Local supply faulty or polarity incorrect
	Fuse blown on sounder PCB
Sounders do not operate	Incorrect wiring
	Fuse blown on sounder PCB
	Incorrect cause and effect programming
	Faulty sounder
	Panel Fault
Sounders operate continuously	Incorrect sounder zone wiring
Analogue value unstable	Dual address
	Loop data fault, data corruption

C € 0905
Zeta Alarms Limited, 72-78 Morfa Road, Swansea SA1 2EN
14
GLT-234-DoP-1
EN54-18: 2005 EN54-17: 2005

Fire detection and fire alarm systems - Input/Output Devices Fire detection and fire alarm systems - Short Circuit Isolators

Zeta Addressable Sounder Control Module with Isolator ZASC-MI

Intended for use in fire detection and fire alarm systems in and around buildings

Response delay (response time) - PASS Performance under fire conditions - PASS Operational reliability - PASS

Durability of operational reliability: 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

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