AA

Alarm Annunciator – 1,2,3 and 4 channel

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Product overview

The AA is a range of 1, 2, 3 and 4 channel alarm annunciators containing a built in sounder, mute switch and alarm relay. The units provide local audible and visual alarm indications and an alarm relay for remote indication. To reduce unwanted alarms the unit has an adjustable input time delay. Once an input has alarmed the condition is latched until the mute switch is pressed to accept the current alarms. The units are mounted on a single gang front plate for easy installation.

Features

- Audible alarm
- Alarm output relay
- 24Vac/dc powered
- Red / green LED indication for each input
- Adjustable input delay
- Sounder mute button

Product specifications

Supply voltage	24Vac/dc 50/60Hz (+/-15%)	
Supply current	130mA ac / 70mA dc (Maximum)	
Housing	Single gang white pattress (UK). (Minimum back box depth 22 mm)	
Input	12 to 24 Vac/dc or volt free contacts	
Input delay preset	0 to 30 seconds	
Output	SPCO relay rated for 5A at 250Vac (Resistive)	
LED indication	Green	No alarm on input (when voltage applied to inputs)
	Flashing red	New alarm on input (no voltage on inputs)
	Solid red	Alarm on input accepted (after mute switch pressed)
Audible alarm output	80dB at 20 cm	
Terminals	Rising clamp for 0.5-2.5mm^2 cable	
Ambient temperature range	0°C to 50°C	
Dimensions	85(W) x 85(H) x 32(D) mm (Maximum, including front plate)	
Weight	90gms	
Country of origin	United Kingdom	

Order codes

AA-1	Alarm Annunciator, 1 channel
AA-2	Alarm Annunciator, 2 channel
AA-3	Alarm Annunciator, 3 channel
AA-4	Alarm Annunciator, 4 channel

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Installation

The AA should be installed by a suitably qualified technician in conjunction with any guidelines for the equipment it is to be connected to and any local regulations. Field wiring should be installed to satisfy the requirements set out by the manufacturer of the equipment that the module is being connected to.

Mounting The unit is can be fitted in to a single gang backbox (UK) if required.

Definitions

Alarm condition: When no voltage is applied to the input.

No alarm condition: When 12 to 24Vac/dc is applied to the input.

Alarm relay energised: The NO to COM connections are short-circuit and the NC to COM connections are open-circuit.

Alarm relay de-energised: The NO to COM connections are open-circuit and the NC to COM connections are short-circuit.

Alarm delay: In order to reduce spurious triggering the unit will only trigger when the input *alarm condition* is present longer then the *alarm delay* time. The *alarm delay* time is adjustable between 0 and 30 seconds.

Operation

On detection of an *alarm condition* and *alarm delay* expiry the following latched conditions occur:

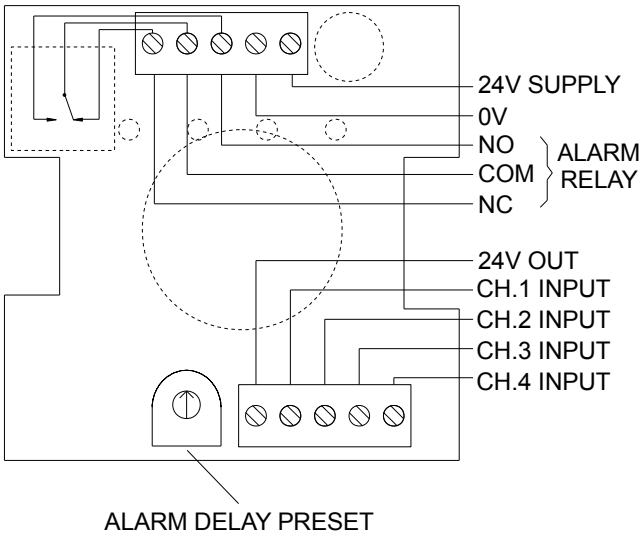
- the sounder will beep
- the channel LED flashes red
- the *alarm relay is energised*.

Pressing the mute button will stop the sounder from beeping. Additionally, the channel LED responds as follows:

- If the *alarm condition* has already cleared the channel LED will return to green.
- If the *alarm condition* persists when the mute button is pressed the channel LED changes from flashing red to permanently red. Only when the *alarm condition* is cleared will the channel LED return to green.

The *alarm relay* will only *de-energise* after the mute button has been pressed to silence the sounder and all *alarm conditions* have been cleared, at which point all the LEDs will be green.

Subsequent *alarm conditions* will re-trigger the above events.



Note: The diagram shows a 4 channel unit. Only the relevant input terminals are fitted to 1, 2 and 3 channel units.

Connections

The unit accepts 12 to 24 Vac/dc, or volt free contacts on the inputs. The volt free contacts should be connected between 24V OUT and the channel input.

Testing

When power is initially applied, the LED(s) will flash red/green momentarily. If no alarm is present the LED(s) will then remain green.

A short press of the mute switch when no alarms are present will give a click from the sounder. Holding the mute switch down for five seconds, causes the check LED(s) to flash red/green for a few seconds, followed by a click from the sounder.