

AX-AA

Alarm Annunciator - 1, 2, 3 and 4 channel

AXIO



Product overview

The Axio AX-AA range of 1, 2, 3 and 4 channel alarm annunciators contains 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 pattrass (UK). (Minimum back box depth 22mm)
Input	12 to 24Vac/dc or volt free contacts
Input Delay Preset	0 to 30 seconds
Output	SPCO relay rated 5A at 50Vac maximum (Resistive)
LED Indication	Green No alarm on input (when voltage applied to inputs) Flashing Red New alarm on input (no voltage applied to inputs) Solid Red Alarm on input accepted (after mute switch pressed)
Audible Alarm Output	80dB at 20cm
Terminals	Rising clamp for 0.5-2.5mm ² cable
Audible 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

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

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Installation

The AX-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.

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

Operation

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

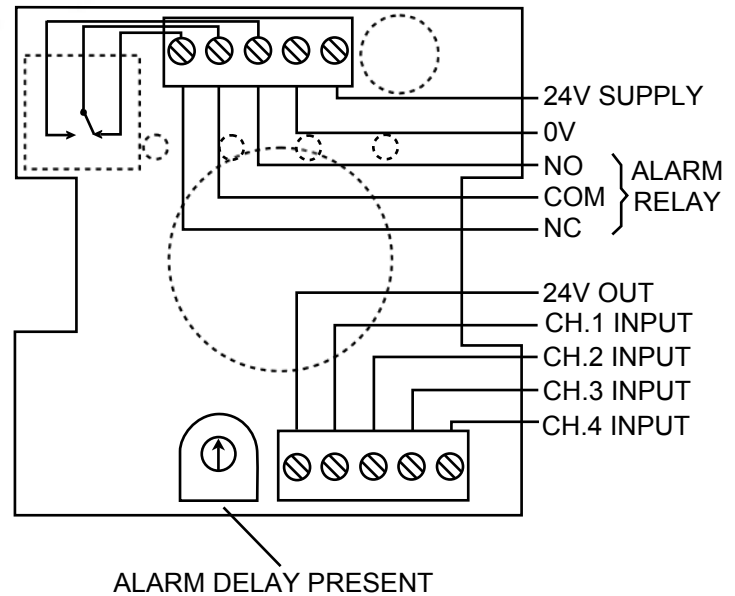
- The sounder will beep
- The channel LED flashed red
- The *alarm relay* is energised

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

In order to comply with the Low Voltage directive, the relay can only be used to switch loads of less than 50Vac (75Vdc).

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.

To test the buzzer and LEDs: Hold down the mute button for 5 seconds.

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