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Operating Instructions

Model AAM

Alarm Acceptance Module

Not designed for safety critical applications

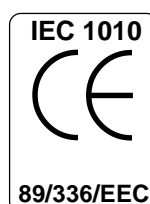


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IMPORTANT INTRODUCTORY NOTES

Thank you for choosing to use this product. We hope that you will be entirely satisfied with your purchase, and welcome any comments you may have which will help us to improve the ease of use, clarity of this manual, etc. for future shipments.

To enable us to provide a swift and accurate service, please be sure to provide the following information :-

- 1) Full Model Number , including all options fitted.
- 2) Serial Number
- 3) DETAILED description of your difficulties, suggestions etc.
- 4) Input Range and Display range

This product is covered by a 2 year warranty, during which period we will put right or replace any meter found to be faulty through bad workmanship or materials. This warranty does not cover damage caused by misuse or accident.

IMPORTANT If the meter is a vital component in your process, you may wish to consider the purchase of a spare to cover the possible eventuality of a failure or accident, as we cannot guarantee instant repair or replacement.

We are constantly striving to improve our products and services, and as a result, changes to instruments do occur. Please ensure that this manual is kept safely for future reference, as future manuals, covering revised designs may no longer describe your product accurately.

We believe these instructions to be accurate, and the product to be competently designed and manufactured. We do not make any claims as to the suitability of this product for any particular application. The choice of product and responsibility for the choice lies with the User.

VERY IMPORTANT WARNINGS



You should carefully read all warnings and commence installation ONLY when you are satisfied that all warnings are adequately covered.



} Connections to this equipment shall be carried out in accordance with current IEE regulations, and all wiring shall be separated in accordance with IEC1010

Notes:

} Power supplies to this equipment must be anti-surge fused at 125mA for 230V supply,

Notes:

} Before installation, check that model number and supply voltage suit your application

Notes:

} Lethal voltages may be present on the circuit board. Do not touch any circuitry when power is applied.

Notes:

} This product is designed for Installation class II service

Notes:

} This product is designed for use in Pollution-Degree 2 environments

Notes:

} Use an insulated screwdriver when making connections and do not touch any circuitry

Notes:

} Replace front cover when meter is unattended

Notes:

} All adjustments to terminations must be made with power removed

Notes:

} Ensure all screw terminals are tight before applying power.

Notes:

**Safety FirstDon't make assumptions..... Always double check.
If in doubt, ask someone who is QUALIFIED to assist you in the subject.**

EQUIPMENT SPECIFICATIONS

Input Signal..... Volt free contact closure from alarm detection circuit
Reset signal..... Volt free contact closure from manual ACCEPT button (normally open)
Latch command..... Volt free contact closure will cause a fleeting alarm to latch the output

Outputs

Number of output channels..... 1
Loop drive capacity..... 200 Ohms minimum, 50mA maximum.
Output signal 9 -14V DC unregulated to drive an audible alarm, 12V relay, annunciator etc.
Isolation..... Isolated from ground and power, but not from inputs

Power Supply

AC Supply..... 230 VAC as standard, 110V to order.
Current Consumption..... Allow 3VA

Mechanical

Base size..... 50 mm wide by 70 mm high
Forward projection..... 110 mm
Weight..... 270 grammes

Environmental

Operating Temperature..... 0 to +50 degrees C
Storage Temperature..... -40 to +85 degrees C
Humidity..... 90% rh max. at 40 C, non condensing.

PANEL REQUIREMENTS



All wiring to this device must be carried out in accordance with current IEC regulations
Separation of all power carrying cables must be ensured in accordance with IEC 1010

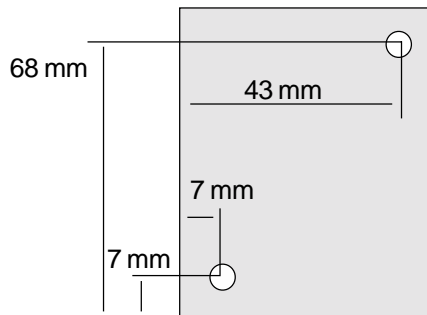
Installation Class II
Pollution degree 2



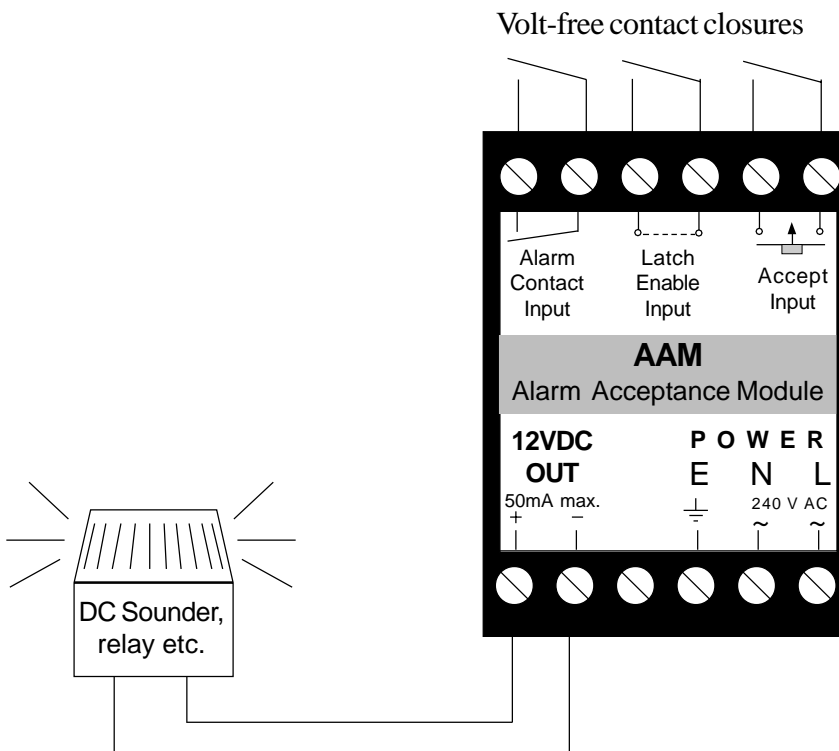
This device is to be installed within a secure enclosure, to prevent accidental access by persons to the powered connections present on the terminals.

For Base mounting, drill 2 holes of 4mm dia. in the base plate as shown.

Or, you may fit the transmitters directly onto DIN46277-3 or CENELEC EN 50 022



Connections



IMPORTANT: Do not run signal wires near any power-carrying cables. Power-carrying cables will almost certainly radiate appreciable amounts of electro-magnetic energy, which could interfere with the small signals you are trying to measure. Use screened cable, in its own separate conduit or tray. Connect the screen at one end only, to a clean earth point as near to the meter as possible.

OPERATION

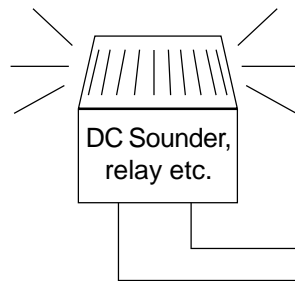
NON-LATCHING alarm drive output:-

The sounder or driven relay will energize for as long as the alarm is active. It will stop as soon as the alarm contacts open.

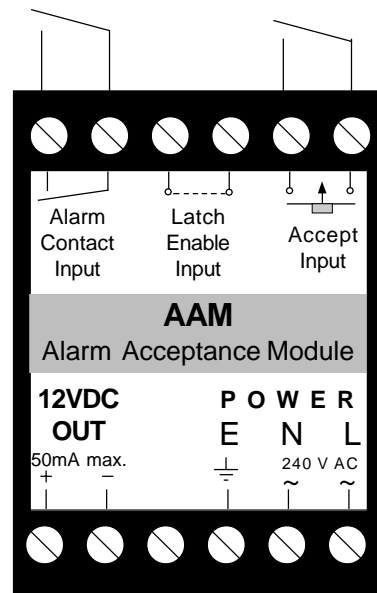
It can be stopped during an alarm if you close the ACCEPT contacts momentarily.

The sounder or alarm will re-energize as soon as an alarm recurs, provided it does not recur while the ACCEPT contacts are closed.

If the ACCEPT contact is kept closed, the sounder or driven relay will be disabled.



Volt-free contact closures



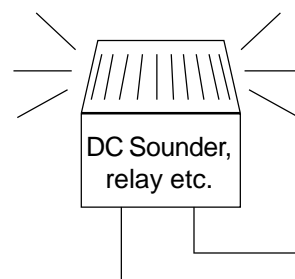
LATCHING alarm drive output:-

The sounder or driven relay will energize when the alarm contacts close and will continue even if the alarm contacts open again

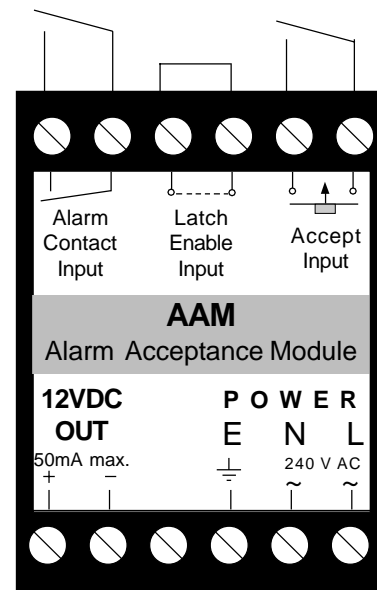
It can be stopped if you close the ACCEPT contacts momentarily.

After accepting an alarm, the sounder or driven relay will re-energize as soon as an alarm recurs, provided it does not recur while the ACCEPT contacts are closed.

If the ACCEPT contact is kept closed, the sounder or driven relay will be disabled.



Volt-free contact closures



Declaration of Conformity

Declaration Number : AAM Iss. 1
Issue Date : 5 June 2003
Products Covered : AAM
Title : Alarm Acceptance module

This is to confirm that the Products covered by this declaration have been designed and manufactured to meet the following specifications :

EN55022:1987 Conducted Emissions: Class B
EN55022:1987 Radiated Emissions : Class B
IEC801-2:1984 Electro-Static Discharge Immunity: 8kV Air
IEC801-3:1984 Radiated ElectroMagnetic field Immunity: 3V/m
IEC801-4:1988 Fast Transient Immunity : AC 1kV, cable 0.5kV

Thus the products conform with the applicable sections of the following standards:

EN50081-1:1992 (normative)
EN50082-1:1992 (normative)

and comply with the requirements of Council Directive 89/336/EEC relating to Electro-Magnetic Compatibility, & are designed to meet 72/23/EEC safety directive.

Conditions

The device covered by this certificate must be installed in adherence to the following conditions :-

Input cabling shall be routed separately to power carrying cabling (includes output wiring)
All input and output cabling shall be individually screened. The screen shall only be terminated to the power earth terminal

Certified true and correct, for and on behalf of London Electronics Ltd.

Warren Court, Beds.

J.R. Lees Director