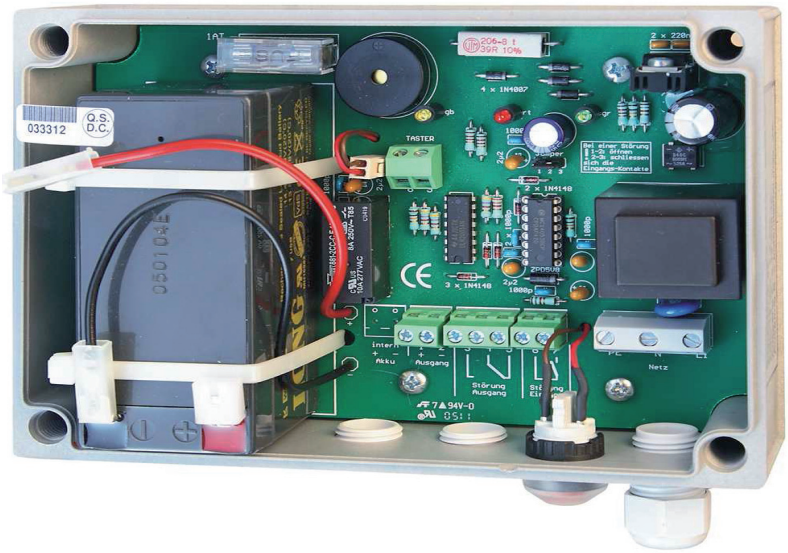
Alarm Device NA-1.2
Battery-supplied Alarm



Contents

1.0 Warnings and safety notes for the installation and commissioning of the appliance

1.1 Fields of application

The battery-supplied alarm is intended for use in combination with the ACO switching devices. The switch device itself must be mounted outside the Ex-area. When applying external float switches, which are mounted in the Ex-area, approved components must be used.

1.2 Staff qualification

The staff members carrying out the assembly, commissioning and maintenance of the switching devices must be properly qualified.

1.3 Safety notes for the operator

The existing accident prevention regulations, the VDE (Association of German Electricians) regulations and those of the local power supply utilities have to be observed.

1.4 Operating manual

During assembly, commissioning and maintenance of the switching device, the operating manual must be complied with. The limit values mentioned therein have to be observed.

1.5 Transport and storage

The switching device must be stored and transported in such a way that damages caused by either impingements, impacts or temperatures outside the ranges of -20°C up to +60°C are excluded.

2.0 General product description

The NA - 1.2 module is used to keep an alarm signal even in case of a mains power failure. A potential-free contact for connection to telecontrol systems is available as well as an output (12 V max. 1A) to operate the signal transmitter. The internal accumulator 12 V 1.2 AH is loaded automatically. The module is suitable for use with the ACO switching devices.

3.0 Function

If terminal 6/7 is closed or if there is no mains voltage, the alarm relais in the module NA - 1.2 releases, the internal buzzer sounds, 12 Volt are now applied to terminal 1 / 2 and terminals 3 / 4 are closed. By pressing the acknowledging button, the alarm signal can be interrupted.

4.0 Operating displays

Three LEDs are located on the circuit board in the housing:

green LED = mains voltage is existent, charging or charge retention of the accumulator take place

red LED = either there is an alarm at terminal 6/7 or mains voltage is missing

yellow LED = the yellow LED flashes together with the red LED following an alarm release, it goes out, however, after the alarm was acknowledged

4.1 Operating elements

On the circuit board is a coding link, which is put to the right at our works. If it is moved to the left, an alarm is released if terminal 6/7 is opened. The potential-free alarm output is run as a change-over contact. After pressing the acknowledging button, the alarm signal is interrupted.

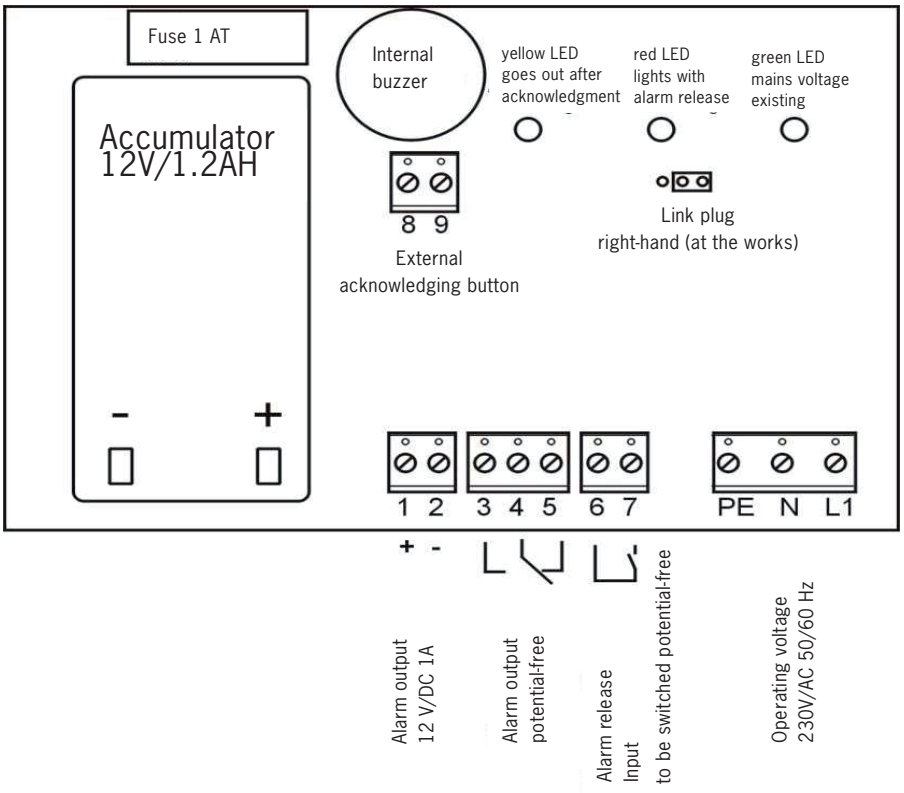
5.0 To be observed

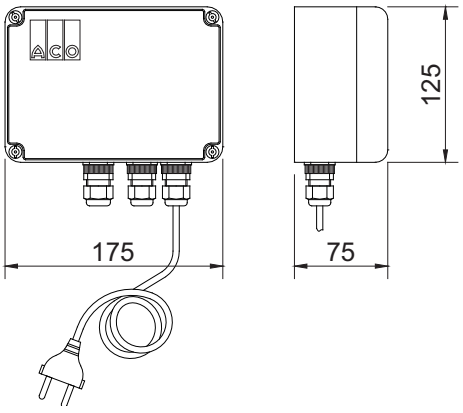
- The alarm release at terminal 6 / 7 must be carried out potential-free.
- The alarm output at terminal 1 / 2 is fused with 1A.
- The accessory shoes at the accumulator must not be interchanged.
- For transport and storage, the + plug must be removed from the accumulator and the contact at the accumulator must be insulated with enclosed spout.
- During commissioning, relevant connection must be made.
- Commissioning must be carried out by a qualified electrician.

6.0 Connection

Terminal PE / N / L1 = mains connection, ready to plug in, with 2 m connecting cable
Terminal 1 / 2 alarm output 12 V/DC max. 1A (1 = positive, 2 = negative)
Terminal 3 / 4 / 5 potential-free alarm output (3 / 4 closed in case of an alarm)
Terminal 6 / 7 alarm input must be switched potential-free

7.0 Installation drawing





8.0 Technical data:

Operating voltage:	**230 V/AC 50/60 Hz**
Housing:	**125 x 175 x 75 Polycarbonate**
Protection type:	**IP 65**
Accumulator:	**12 Volt 1.2 AH lead gel**
Temperature range:	**-20°C up to +50°C**
Switch contact:	**4 A (1AG/Cd0)**
Alarm output:	**12 V 1A max.**
Cable glands:	**3 off M16 x 1.5**
Connection:	**ready to plug in, with 2 m connecting cable**

During operation, the transformer reaches a temperature of up to 70°C!
In the case of complete discharge of the accumulator, charging time may add up to approx. 100 hours.

9.0 Standards:

Applicable EC Directives:	EC Low Voltage Directive 2006/95/EC EC Electromagnetic Compatibility Directive 2004/108/EC
Applied Harmonised Standards, particularly:	EN 61000 - 6 - 2: 2005 EN 61000 - 6 - 3: 2007 EN 61010 -1: 2001 + correction 1: 2002 + correction 2: 2004

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HT 862/01/2010 ● LTC - Subject no. 0150.26.73