Alarm WE 981

Universal alarm with audible and visual alarm signals with sound mute function.

Alarm WE 981 is available in 3 models with different supply power.

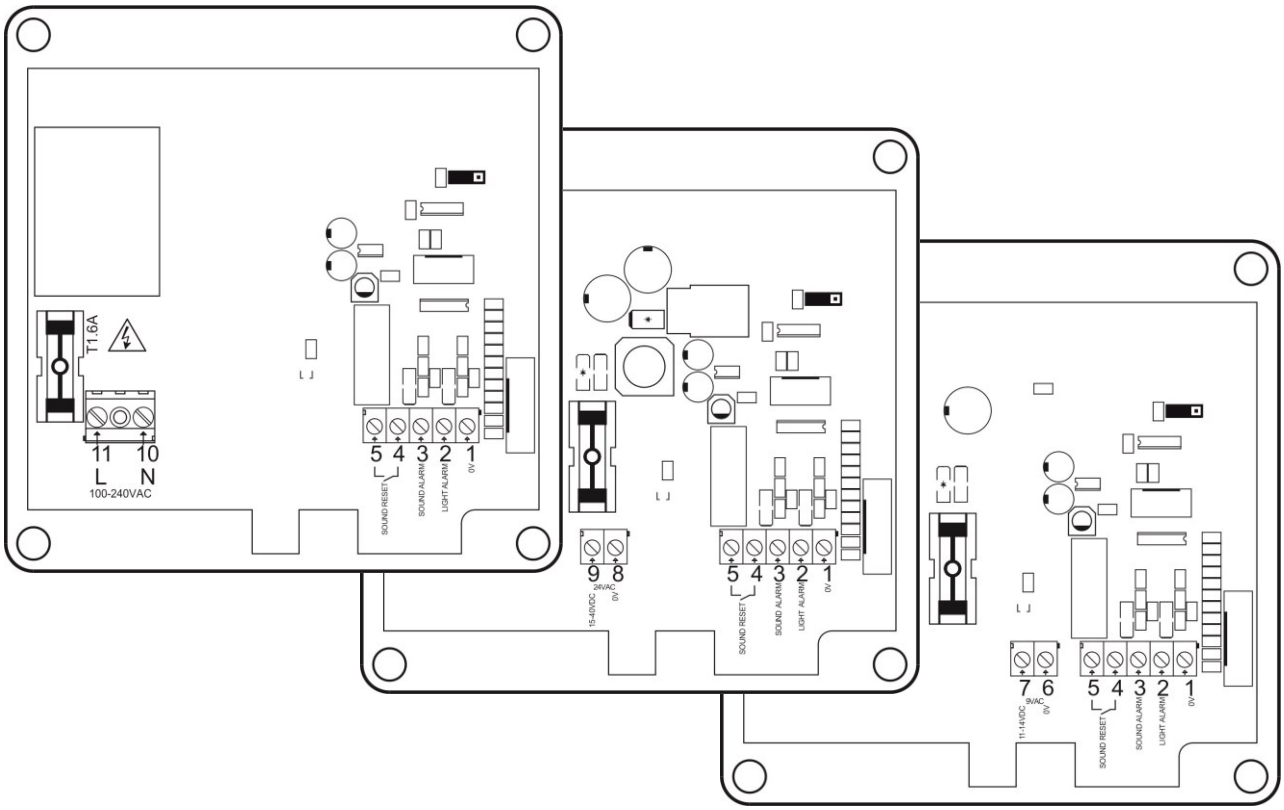
- 100 – 240VAC (Product no. 49128)
- 15 - 40VDC or 24VAC (Product no. 49129)
- 11 – 14VDC or 9VAC (Product no. 49127)

Mounting

Alarm WE 981 is mounted according to the general applicable installation rules. Alarm WE 981 is to be fixed on a plane and stable surface with screws in the 4 corner holes. Alarm WE 981 is not to be fixed on moving or vibrating surfaces.

Electrical connections

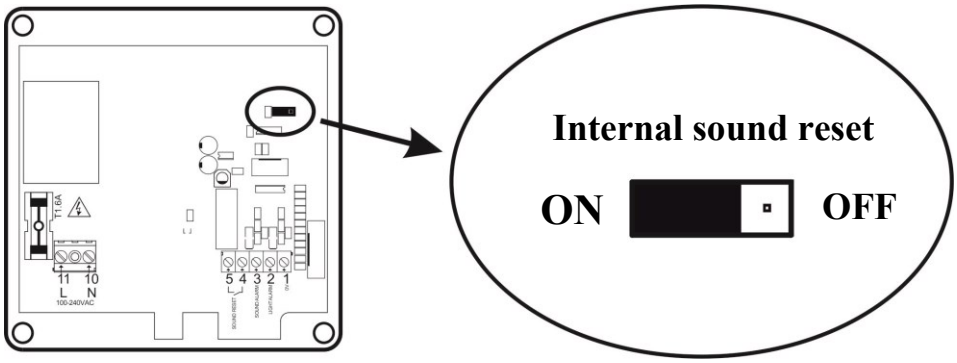
All 3 models with different power supply are shown below:



Terminal connections for Alarm WE 981

Terminal no	Description	Comments
1	0V (common zero)	
2	Light input (alarm when connected to 0)	active low with internal pull up
3	Sound input (alarm when connected to 0)	active low with internal pull up
4	Voltage free relay switch – normally open. The relay is activated when the sound mute button is pressed, i.e. the relay switch will close.	Max 30VDC 6A Max 50VAC 6A
5		
6	9VAC or 9-14VDC	Positive terminal when DC
7		N DC
8	24VAC or 15-40VDC	Positive terminal when DC
9		Negative terminal when DC
10	100 – 240 VAC supply	**LIVE** cable (L)
11		**NEUTRAL** cable (N)

Jumper settings



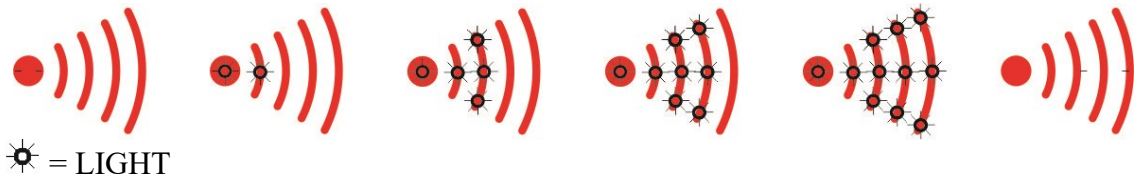
When the jumper is placed in position **ON,** it is possible to mute the audible alarm by pressing the sound mute button. It is possible to reactivate the sound by removing and reactivating the sound input on terminal 3.
When the jumper is placed in position **OFF,** it is only the sound reset relay which closes, when the sound mute button is activated.

Functional description

Sound reset relay:
The sound reset relay is activated when the sound mute button is pressed. The sound reset relay will deactivate 1 second after the sound mute button is released.
When the relay is activated, a connection between terminals 4 and 5 will be established.

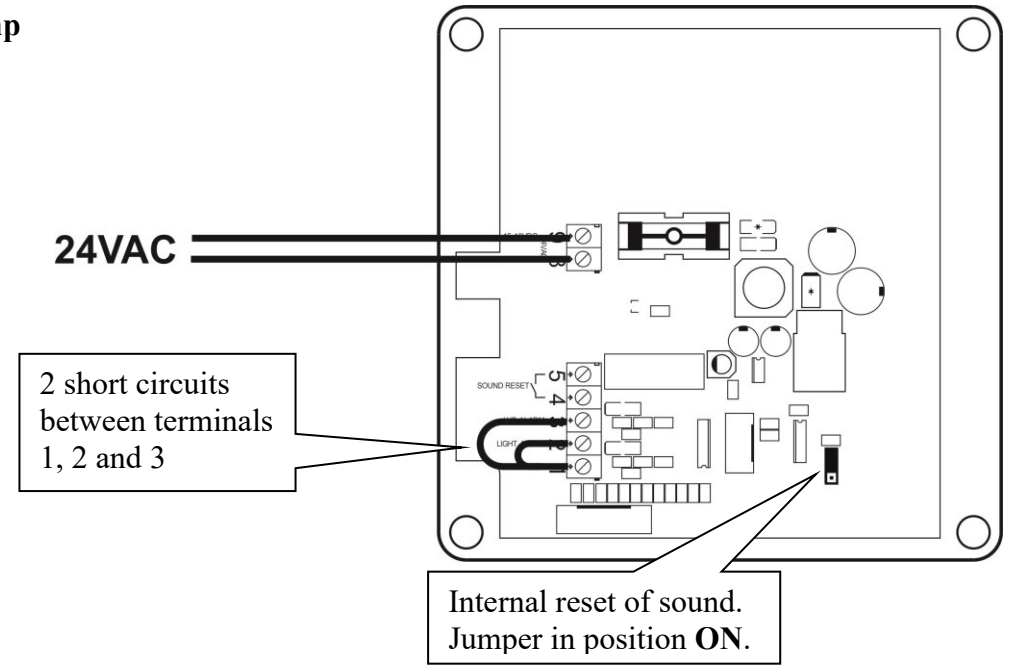
Sound signal:
When terminal 3 receives a sound input, the sound signal will be audible. The sound signal consists of 2 “beeps” per second. The duration of a ”beep” is 0.1 second.

Light signal:
When terminal 2 receives a light input, the light signal will be visible. The sequences of the light signal are shown below. The duration of a sequence is 1.4 second.



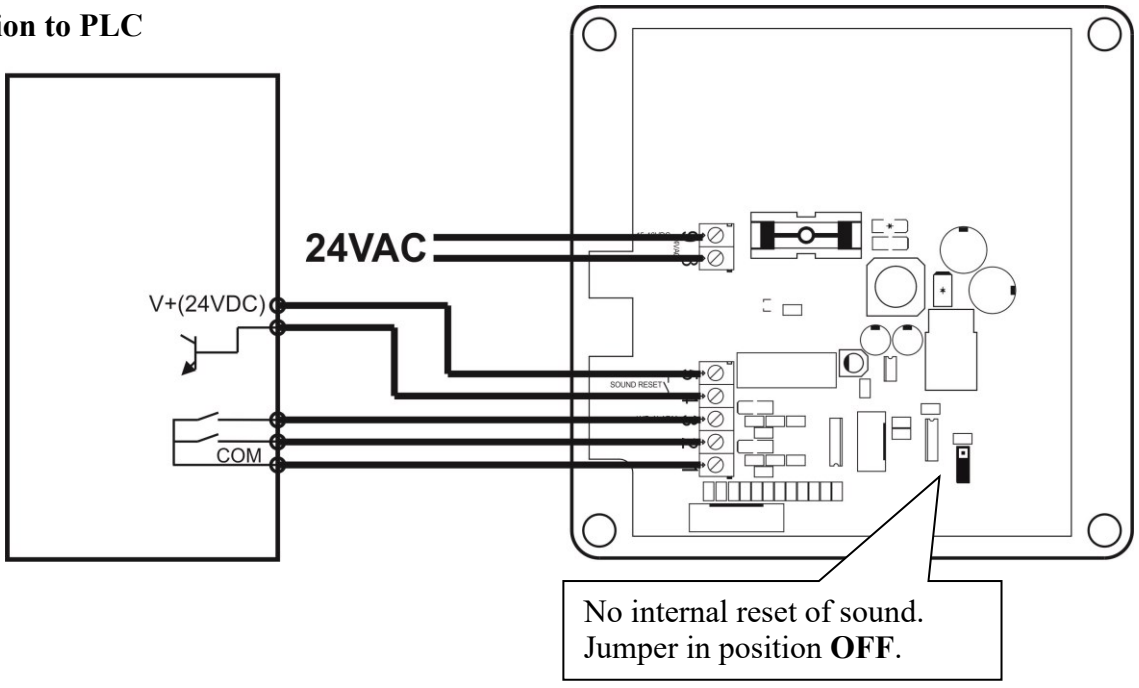
Connection examples

Simple alarm lamp



As soon as 24VAC is connected, the visual and audible alarms will be active. It is possible to deactivate the audible alarm by activating the sound mute button. To reactivate the audible alarm, disconnect and reconnect 24VAC.

Connection to PLC



In this situation the visual and audible signals are controlled by the PLC. It is not possible to mute the sound internally, but the PLC will receive a signal when the sound mute button is pressed.

Technical data

Power supply (depending on model):

100 – 240VAC, Max 3W (Prod. No. 49128)
15 - 40VDC / 24VAC, Max 3W (Prod. No. 49129)
11-14VDC / 9VAC, Max 2W (Prod. No. 49127)

Enclosure	:	IP 22
Dimensions (hxwxd)	:	123x120x56 mm
Weight	:	300g
Operating temperature	:	-25 to 50 °C
Sound level	:	>85dBA @ 10cm

Applied standards

DS/EN 60730-1:2012	Automatic electrical controls for household and similar use
EN 61000-6-3/A1/AC:2012 EN 61000-6-3/A1:2011 EN 61000-6-3:2007	Electromagnetic compatibility (EMC) Emission standard for residential, commercial and light-industrial environments
EN 61000-6-1:2007	Electromagnetic compatibility (EMC) Immunity for residential, commercial and light-industrial environments

Date: 8/1-2019
Made by: BSJ/df
Rev. 1.2
Manufactured by: LS Control A/S
Industrivej 12
DK-4160 Herlufmagle
lsc@lscontrol.dk – www.lscontrol.dk/en