

## MULTIGUARD AIDALARM AA31110D

The AA31110D is designed to give audible and visual re-assurance indication at the point of operation.

Non latching (toilet alarm) and latching (pool alarm) devices can be used on the same controller. Any alarm input for less than 5 seconds is a non-latched input, e.g. momentary action pullcord for a disabled toilet alarm. This requires a separate reset input from the point of call (BS8300). Any alarm signal longer than 5 seconds is latched, e.g. a pool alarm signal. When latching buttons are used the AA31110D will reset when the call point is reset. Separate reset buttons are not required for pool alarms.

### Components required to build a multi zone toilet system

AA31110D Controller

S1600-R Non-latching Pull Cord with LED **or** S1703P Non-latching Call buttons with LEDs

S1708PR Plastic Reset buttons **or** S1708S Stainless Steel Reset Buttons

S1778PR Plastic Overdoor Light and sounder **or** S1778SR Stainless Steel Overdoor Light and sounder

### Components required to build a multi zone pool alarm system

AA31110D Controller

WRP2-B-11 Latching waterproof call points **or** S1711WGB Latching twist to reset call buttons

958CHX1701 Sounder beacon Amber lens with deep white base

LAB35200 Emergency Call Point sign

**Note:** It is possible to have toilet and pool alarms on the same system.

### Operation

When a call point is operated, the local indicators and buzzers operate to inform the caller that the call has been transmitted. The zone LED at the panel also flashes and the integral buzzer sounds. The global alarm relay switches while the buzzer sounds. When a call is silenced at the panel, all flashing LEDs becomes steady and all buzzers silence. When the call is reset at the point of activation, all LEDs and buzzers pertaining to that zone will be extinguished and silenced. (If a toilet alarm input is seen by the panel after the zone has been silenced, the zone will re-trip).

### Power Supply

The AA31110D is supplied with an integral 13.8vdc power supply rated at 250ma with a rechargeable 0.7 Ahr standby battery. The MULTIGUARD has a power requirement of 25ma quiescent and 60ma maximum with all zones tripped. The integral power supply will therefore support six zones plus the external ancillary equipment such as over door lights and buzzers. However, it will not support all zones tripped for long periods. The standby battery will support the system for about six to eight hours in quiescent and approximately 3 hours if two zones are tripped.

### Installation Instructions

IT IS IMPORTANT TO FIX THE MULTIGUARD TO A FLAT SURFACE. IF THE BOX DISTORTS IT IS DIFFICULT TO CLIP THE VARIOUS COMPONENTS TOGETHER TO FORM A SECURE HOUSING.

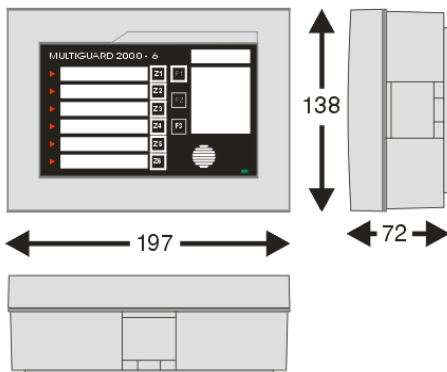
Cables may enter through the 20mm holes in the rear of the box or through the entry slots located on each side. As the mains power cable is generally the largest it should be routed into the central compartment and dressed in for connection to the fused terminal before dressing in the low voltage cables. Low voltage cables should be routed into the cable channel between the inner and outer walls of the box. These cables should only be cut to length when you are ready to terminate them on the PCB assembly. Be sure to leave enough length to allow the PCB assembly to be removed for access to the fuses and battery terminals at a later stage.

## Connection & Power Up sequence

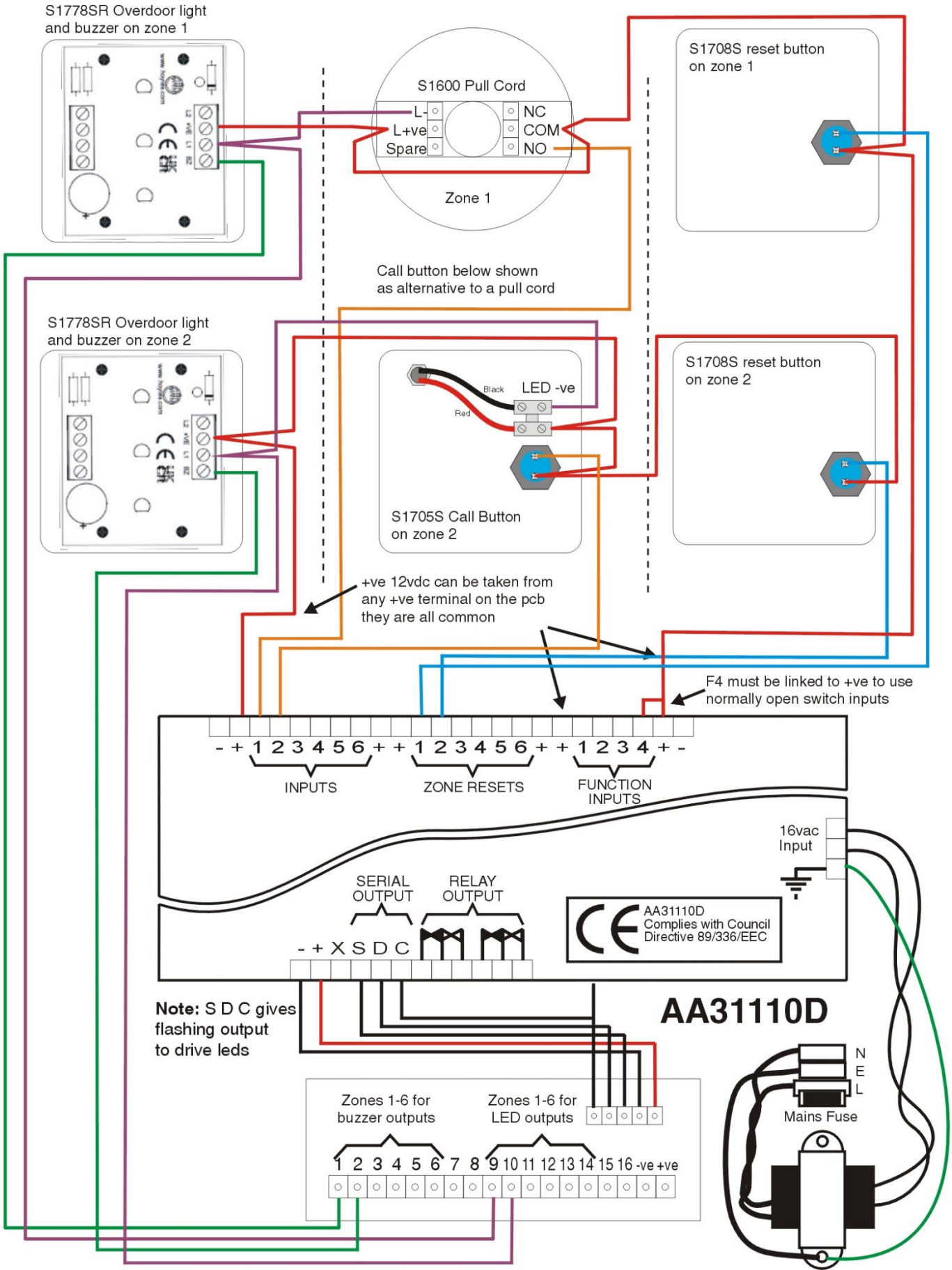
The MULTIGUARD has a short test or verification sequence on power up. You should verify that the unit as supplied is functioning normally before making any connections.

1. Ensure F4 is linked to +ve. Plug in the battery. The plug is polarised to maintain the correct polarity. The integral sounder will beep at 1 second intervals. Press the SILENCE button F1. The LED's will flash three times and then reset automatically. Disconnect the battery.
2. Dress the cables into the cable channel, trim to length and terminate as per the connection diagram. Any excess cable should be left in the side channels between the clip and the outer wall. This helps to prevent the clips deforming.
3. Connect the mains cable from a suitable fused spur to the Live, Neutral & Earth terminals. Ensure the mains fuse is fitted and the transformer leads (Blue & Yellow) and earth lead (Green) are connected to the PCB.
4. Reconnect the battery, the system will once again go through the test routine. Clip the PCB assembly onto the back box.
5. Switch on the power at the fused spur. Observe the green Mains On LED.
6. The system can now be tested and the decal marked up and lid clipped into place. The mark resistant decal covers a removable identification panel which can be created by a word processor or graphics package to enable a professional looking fascia to be achieved for each installation. Two example blanks are supplied with these instructions.

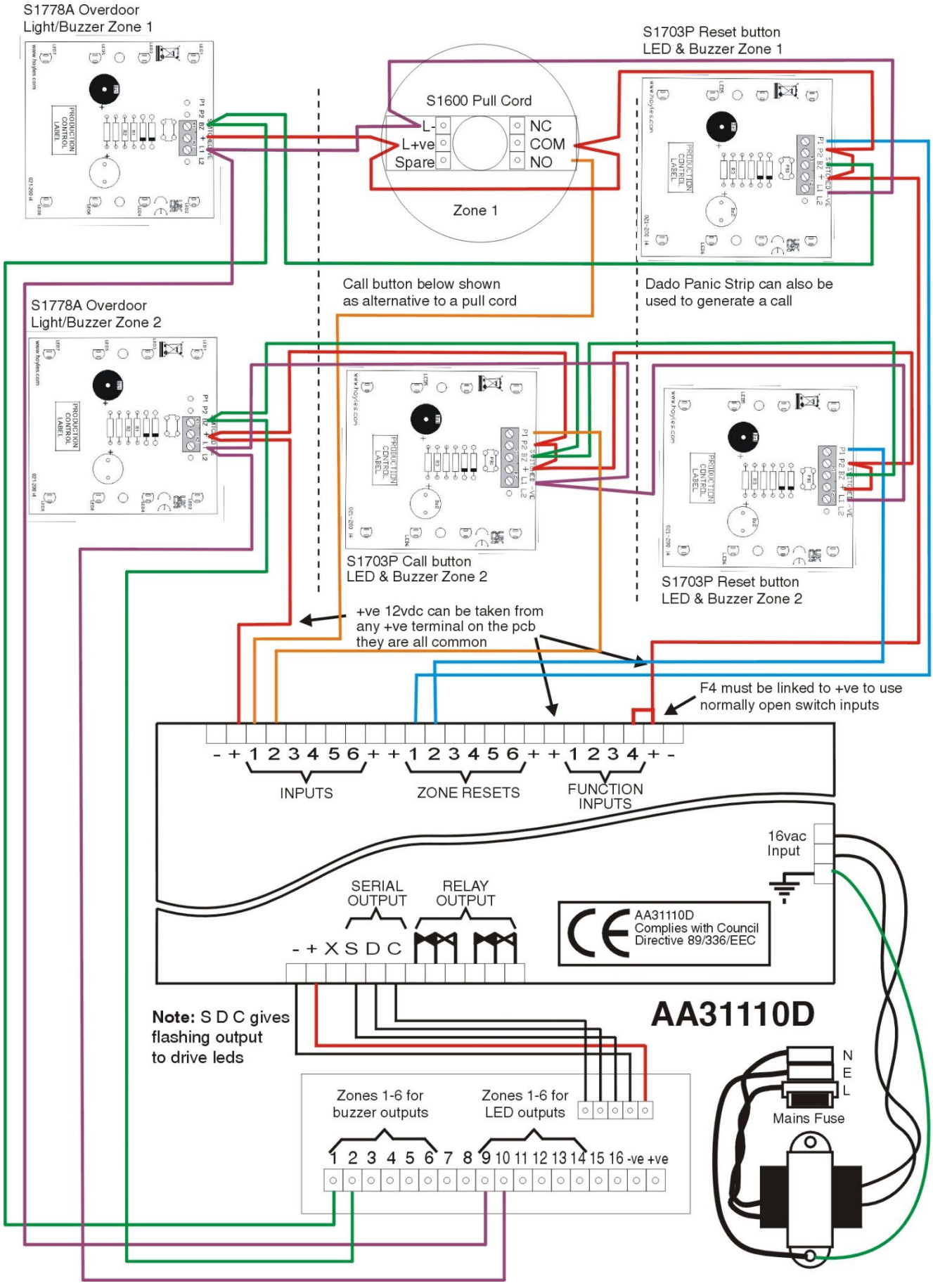
## Dimensions (mm)



**Disabled Toilet Wiring using Stainless Steel Accessories**



### Disabled Toilet Wiring using White Plastic Accessories



Wiring for Pool Alarm System

