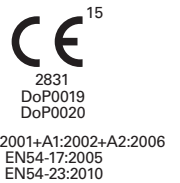


# Installation Instructions



## Specification

Supply Voltage	19 – 30vdc
Cable Size / type	0.5 - 2.5mm/ FIRETUF, FP200 or MICC
Standby current	< 450 uA
Operating temperature	-10 to +55 °C (95%RH)
Sound output @ +/-3dB (set by panel)	Low volume : 87dB @ <8.6mA Medium volume : 93dB @ <10mA High volume : 100dB @ <11mA
Environment Category CASB393	Type A
Environment Category CASB393WP	Type B
Compliance	EN54-3 Fire Alarm Device – Sounder EN54-17:2005 EN54-23:2010 Fire Alarm Device - VAD
Tones (set by panel)	Continuous 984Hz Pulsed 984 / 0Hz pulse 1Hz* Two Tone 644 / 984Hz @ 1Hz cycle Slow whoop 500-1200Hz in 3.5 seconds / 0.5secs gap
Beacon	0.5Hz Flash

Polar dispersion information available in the technical manual (Ref:M05-011). For signal protocol refer to Eaton communication protocol document.

## Short circuit isolators

Each of the sounder beacons in this range contain an integral short circuit isolator, which operates between the -VE COM IN terminal and the -VE COM OUT terminal (terminals 1 & 2; see base wiring diagram overleaf).

The isolator operates in conjunction with the Eaton Control Panel when a low parallel resistance fault of typically 200 is presented between the +VE and -VE of the loop wiring.

### Short circuit isolation data (integral with sounder beacon)

Total Loop Resistance for correct operation of short circuit isolator	50Ω (max)
Parallel Fault Resistance to be seen at the Control Panel for isolators to open	200Ω (typ)
Continuous Current allowable through isolator	700mA (max)
Isolator Resistance in closed state	0.26Ω (max)
Leakage Current into direct short circuit with isolator open	14mA (max)
Voltage at which isolator changes from open to closed or closed to open state	3.8V to 11V
Maximum switching current of isolator	1.5A

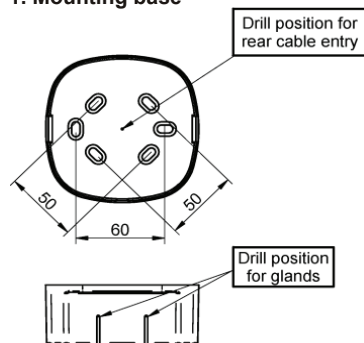
### Order Codes

CASB393, FXN559LPS, MASB880	Addressable Wall Sounder / Beacon
CASB393WP, FXN559LPSWP, MASB880WP	Addressable Wall Sounder / Beacon IP66*

\* Not EN54-3 Approved

### Wall Sounder (Type A / IP21C)

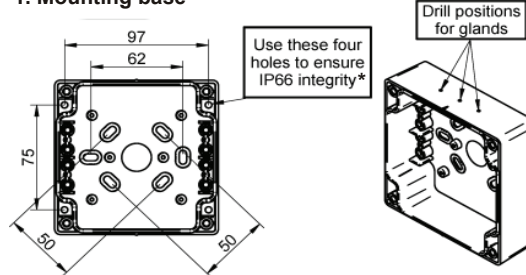
#### 1. Mounting base



- (i) Drill required holes for cable gland fixing
- (ii) Drill out the required fixing holes
- (iii) Fix to mounting surface using two suitable screws

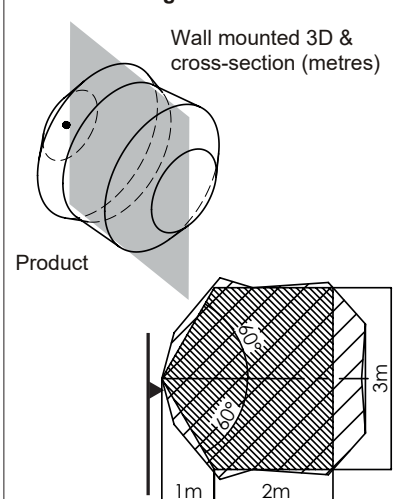
### Wall Sounder IP66\* (Type B / IP33C)

#### 1. Mounting base

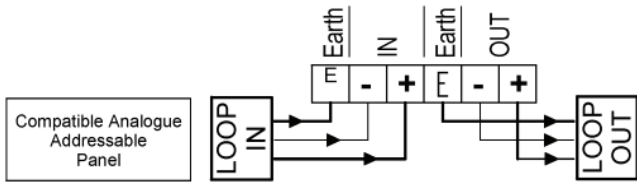


- (i) Drill required holes for cable gland fixing (top or bottom) and ensure cables are correctly sealed for IP66\* integrity.
- (ii) Fix to mounting surface using four suitable screws  
All products meet minimum requirements of IP33C in accordance with EN54-3

#### 1. VAD Coverage Area

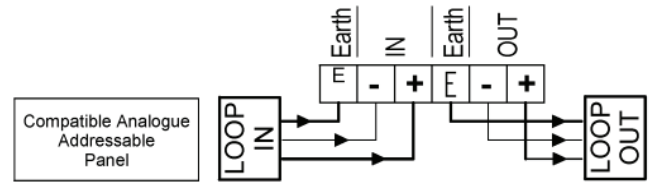


**Wall Sounder (Type A / IP21C)**  
**3. Connection Details**



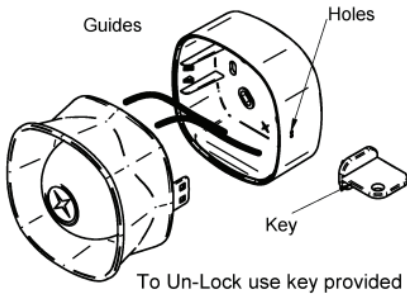
**WARNING** Do NOT use high voltage testers if ANY equipment is connected to the system.  
Earth screen must be continuous along entire length of loop.

**Wall Sounder IP66\* (Type B / IP33C)**  
**3. Connection Details**



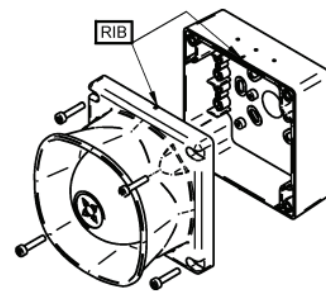
**WARNING** Do NOT use high voltage testers if ANY equipment is connected to the system.  
Earth screen must be continuous along entire length of loop.

**Wall Sounder (Type A / IP21C)**  
**4. Sounder Assembly**



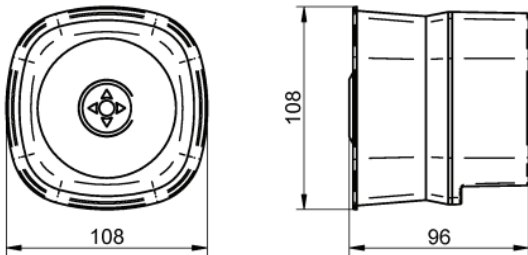
- (i) Clip sounder onto base
- (ii) Ensure cables do not put stress on the PCB

**Wall Sounder IP66\* (Type B / IP33C)**  
**4. Sounder Assembly**



- (i) Location ribs must align on base and sounder
- (ii) Ensure cables do not put stress on the PCB
- (iii) Bolt Sounder to base

**Wall Sounder (Type A / IP21C)**  
**Dimensions**



**Wall Sounder IP66\* (Type B / IP33C)**  
**Dimensions**

