

INFERNO INTENSO

INSTALLATION INSTRUCTIONS

INSTALLATION OVERVIEW:

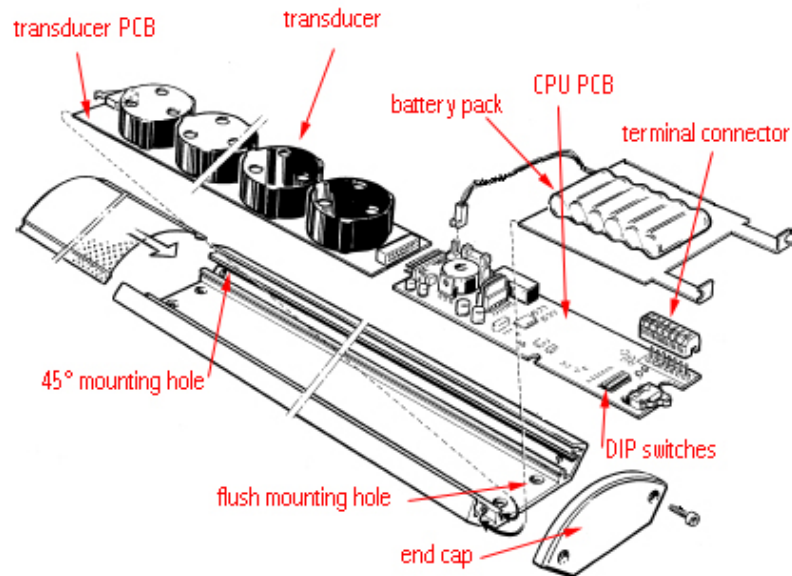
1. Location selection : determine the location where the Intenso will be mounted.
2. Cable routing : route cable to mounting location, and routing cable inside the Intenso.
3. Mounting : attach the Intenso to the selected surface.
4. Connecting : attach the 3 cores to the terminal connector.
5. DIP switches - adjustment of switches is optional.
6. Full power test.

NOTE:

- Installation of the Intenso should only be performed by qualified installers. Take particular note of the following:
- charging voltage : 12-16V DC - do not exceed this range. Charging must occur via the Intenso CPU PCB - any attempt to charge the battery via other means could result in damage to the battery and/or CPU PCB.
 - the unit will not sound properly until the battery has been charged for 6 hours.
 - the battery must be replaced every 3 years.
 - take care with the PCBs - precautions for handling electrostatic discharge sensitive devices must be observed.
 - to protect against accidental activation, please use earplugs when installing.

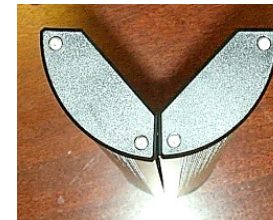
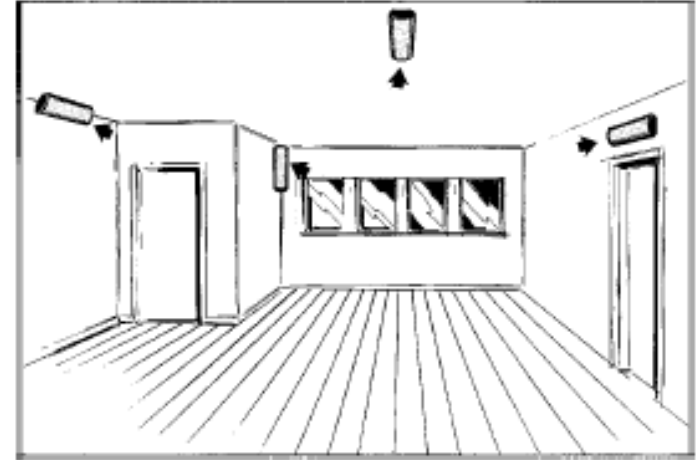
TOOLS REQUIRED:

- small flathead screwdriver for terminal connector.
- T10 torx screwdriver for removing end caps.
- hardware and drill for affixing unit to wall/ceiling.

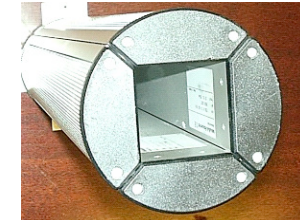


1. LOCATION SELECTION

For best effect against intruders, position the Intenso above likely entry points such as doorways, windows, emergency exits, ventilation shafts and the like. The ultimate installation position is one where the intruder is assaulted by the sound spectrum as, or immediately after, he enters the premises. For protection of specific, high-value items, install an Intenso in close proximity & preferably directed at the item/s. The sound spectrum is directional, so is most effective when directed at the intruder from above. Mounting the unit on a 45° angle at the intersection of wall & ceiling is most effective, and also provides a measure of protection against sabotage by virtue of the height above floor level. Other installation methods include installed on the ceiling or wall in a semi-circle configuration (see picture a.) or if stud height is sufficient, hanging vertically in a 360° tower - see picture b. Use M5 x 12mm flathead bolts with lock-nuts for joining units. The Intenso can be installed in any orientation (ie angled, vertical, horizontal, upside down) however consider future access to the CPU end of the unit when installing.



Picture a.



Picture b.

2. CABLE ROUTING

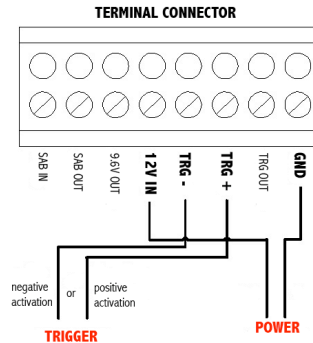
Ensure that appropriate cable (AWG 22-18, 4 core) is present at the mounting location. Two of the cores must provide a continuous 12V supply (for charging the internal battery) and one for the trigger signal. Route the cable into the Intenso via one of the existing holes in the rear (for 45° mounting) or bevelled edges (for flush mounting). Ensure that the cable is routed into the correct end of the unit - that being the end with the CPU-PCB and white battery pack visible through the perforated grill.

3. MOUNTING

Attach the Intenso securely to the selected surface using the appropriate hardware. Despite only weighing 1.7kg, it is recommended that the appropriate toggles/wall anchors are used when mounting the unit on fragile surfaces such as gip. Use all 4 mounting holes to ensure the unit is safely & securely attached to the surface.

4. CONNECTING

1. Remove the end cap opposite the cable entry point. This will permit the perforated grill to be slid away to expose the CPU-PCB & battery pack. In rare circumstances, the grill may refuse to slide - in which case the steps below can be accomplished by removing the other end cap and sliding both PCBs and battery pack out sufficiently far to gain access to the terminal block, battery and DIP switches.
2. Set DIP switch 3 to ON. The unit is now in test mode and will not emit the full power sound spectrum.
3. Ensure CPU PCB and transducer PCB are pressed firmly together so that their connectors meet tightly.
4. Connect battery pack to battery connector on CPU PCB.
4. Connect 12V power supply to CPU PCB via terminals "GND" and "12V IN".
5. Set DIP switch 1 to 'ON'. A red LED on the CPU PCB will confirm that the battery is being charged via the 12V supply.
6. Connect either a positive trigger, (9-18V, 10mA) or a negative trigger (0-0.5V, 10mA).
7. Activate the trigger - the sound barrier should produce 4 distinct test tones. The tones will sound for 30s or if desired, briefly disconnect then reconnect the battery pack to silence them.
8. Switch DIP switch 3 back to OFF - the unit will now generate the full power sound spectrum if triggered.
9. Switch DIP switch 1 to 'OFF'. The battery is only charged on-demand (usually once every 24 hours) and the charging indicator LED will only illuminate during the charging phase, and if DIP 1 is ON.



5. DIP SWITCHES

The DIP switches allow the technician to alter various aspects of the Intenso's operation. It is not necessary to adjust any DIP switches for the unit to operate. DIP switch 3 will have been set to 'ON' during installation (see point 2 of "CONNECTING" above). Ensure that DIP switch 3 is returned to 'OFF' before closing the unit after installation is complete.

*The asterisk indicates the default factory setting.

DIP 1 : Battery charging confirmation.

ON : a red LED will indicate that battery voltage has dropped below 10.9V, and is thus actively charging.

OFF* : no indication of battery charging.

DIP 2 : Delay between trigger signal and sounding.

ON : a 30s delay will occur between the unit receiving a trigger signal, and sounding.

OFF* : no delay - instantaneous sounding upon receiving trigger signal.

DIP 3 : Test mode - permits test tones rather than sound spectrum to be produced when installing.

ON : test mode : 4 short tones of differing pitch, produced when triggered.

OFF* : normal operational mode.

DIP 4 : Alarm signal length - determines duration of sounding.

ON : infinite alarm - unit will sound until disarmed via control panel.

OFF* : 3 minute sounding - unless disarmed prior, unit will sound for 3 minutes and then cease, awaiting a new trigger signal.

DIP 5 : Reserve.

DIP 6 : Fixed alarm signal length.

ON : 45s.

OFF* : normal mode.

DIP 7 : Sound level - permits adjustment between 125db and 127dB.

ON : 127 ± 1dB (A) for 20s, then 124dB ± 1dB (A).

OFF* : 125 ± 1dB (A).

DIP 8 : Automatic battery check.

ON : bad battery signal is generated via terminal 7.

OFF* : the red LED flashes to indicate a bad battery.

6. FULL POWER TEST

The unit will generate test tones but not the full power sound spectrum unless the battery has been charged for at least 20 minutes. Please ensure that the battery is sufficiently charged to perform a full power test.

1. Ensure DIP switch 3 is set to 'OFF'.

2. Activate the trigger. The unit will produce an extremely loud sound for the duration that the trigger is active.

3. If the unit does generate the sound spectrum described above, please check : 12V supply, terminal connections, battery connection, DIP switches (especially 2 & 3), CPU PCB and transducer PCB are firmly connected. Most importantly, confirm that the battery charged for at least 20 minutes.

4. Reassemble unit.

TAMPER SWITCH

The tamper loop provides an extra level of mechanical security protection, however is not needed for the function of the siren. The tamper loop consists of a series connection that enters at the SAB IN connector on the terminal block. It follows this path : microswitch at the end of the CPU → CPU PCB → transducer PCB → microswitch on transducer PCB → SAB OUT connector on terminal block. The loop can contain other normally-closed switches such as magnetic contacts or mercury tilt switches.

TECHNICAL SPECIFICATIONS

General

Coverage : 70m²

Sound output : 125-127dB ± 1dB (A) @ 1 m, user selectable

Output frequency : 2-5kHz

Electrical interface

Power supply : 12-16V DC, <150mA

Activation signals : Trig (-) : 0-0.5V, 10mA

Trig (+) : 9-18V, 10mA

Cables : 0.25 - 1.0 mm², (AWG 22-18)

Battery

Type : 9.6V Ni-MH. Battery's performance is improved if charged and discharged.

Capacity : 1800mAh, sufficient for > 30 minutes continuous sounding

Charge time : The unit should be charged for 6 hours prior to use.

Standby w/o charge : 1 month

Life time : 3 years



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