



SUTCLIFFE ELECTRONICS

15 West Street, Hothfield

Ashford

Kent TN26 1ET

01233 634191

www.drivewayalarm.co.uk

sales@drivewayalarm.co.uk

DRIVEWAY INTRUDER

ALARM KIT

WITH HEATING TO REDUCE CONDENSATION



A Wired active Infrared beam device to give warning of the arrival of a visitor on your property, and which can also be used to trigger a warning siren or floodlights for your own convenience.

The Infrared beam consists of a sender and a receiver, which are mounted on either side of the drive. Both are normally connected to the Control box, which provides 12V power for the system, and contains a buzzer, extra buzzer terminals, and timing circuits for a siren. It is plugged into the 240V mains in the house.

The Control box has integral 13A plug pins, and contains an adjustable Buzzer, a Delay timer, and an On timer and switch to drive a siren. It can support 3 separate beams, and two extra buzzers. Each beam comes with 100m of cable (Recommended Maximum Cable 500m.) and 2 mounting brackets. One knob is used to adjust the On time of the buzzer, (1 second - 15 seconds), and a further 2 knobs adjust the siren Delay and On time. By this

means any external function is delayed, to prevent the beam position from being marked by a prospective intruder. Similarly the boxes are best mounted IN rather than ON posts, in order to hide their position. Hollow posts can be made by nailing four boards together.

The optimum height for mounting the device is 0.9m (1yard), this allows small animals to pass below, but is below the window in most car doors. There is 1/10 second delay in the beam to allow a bird to pass through without causing false triggering.

No special tools are required to set up the beam, which is aided by a red indicator which shows when the beam is absent or broken. It can be fitted by a competent handy person with the instructions supplied.

Sutcliffe Electronics do not produce a reflector model with the sender and receiver, on one side of the drive, and a target on the other, since they are much more prone to false alarms and can be easily bypassed.

OPTIONS AVAILABLE

- 1) 15m & 30m, Continuous beam units.
(recommended maximum distance between sender and receiver)
- 2) Separate power supply module for sender, for where it is more convenient to run the sender from another place.
- 3) Extra Function Timer Modules (See separate sheet)
- 4) Paging function for use with 'Cobra' Walkie talkie radios, run in conjunction with the internal buzzer.
- 5) Special 12V system, for where mains is not available, or it is a requirement that the system runs off an alarm panel.
- 6) Extra cable in 100M rolls
- 7) Extra buzzers.
- 8) Siren to provide external warning.
- 9) Systems are manufactured to order, and can be modified to suit. Please ring to discuss your requirements.
- 10) Slave relay, for those who require more powerful switching options. (Please discuss)

SUMMARY

- 1) Infra red active beam (not passive IR.). Consisting of separate receivers and senders, in pairs.
- 2) Weatherproof, designed for external use.
- 3) Transistor switch for operating approved external alarm siren. Please note the maximum ON time is quite short, it is not designed for switching lights).
- 4) Integral warning buzzer in control box, with knob to adjust time. Plus provision to power 2 extra buzzers.
- 5) Runs 24 hours a day.
- 6) Heating components to reduce condensation.

- 7) Units run at a nominal 12V. No danger if cable is damaged
- 8) Three complete beams, or six receivers only, can be fitted to one control box.
- 9) 500 metres of cable can be used with each beam
(Maximum loop resistance 60 ohms).
- 10) Both ends of the beam need power, but do not necessarily need to be wired together. Accessory mains power supplies for the sender available.
- 11) Integral delay timer for external alarms etc. The delay prevents the beam position being noted. For instance a 30 second delay followed by a 10 second blast on a siren.
- 12) Buzzer and Siren reset automatically.
- 13) Rustproof mounting brackets.
- 14) Can be used as part of a larger system.
- 15) Easy to fit by the competent DIY person
- 16) A preventative deterrent as well as an automatic door bell for the drive.

DIMENSIONS

Sender and Receiver boxes:-

7.5 X 10.5 X 5 cm with a 5 cm lens hood. (slightly smaller than 1/2 a brick)

Control box:- 14 X 9 X 4 cm Adapter style with 13A plug pins on the back. (about the size of a double socket)

Beam:- 12V nominal

Relay:- (When specified) 10A 250V AC Resistive load, isolated contacts.

Paging Adaptor for DIA Intruder alarm System

The Control box on this setup has been fitted with a special adaption so that it can be used with a Cobra MT PMR 446 Licence free Walkie Talkie as a pager base station. The paging function is triggered by the DIA buzzer circuit.



Part of the adaption is designed to give a maintenance charge to the internal battery set in the radio. Thus it can be left connected permanently.

A long Plugged connector lead is provided, one end is plugged into the 2.5mm socket on the base of the DIA control box, and the other end into the charger and microphone sockets in any one of the radios supplied. (see picture) This is now the base station. The radios are not modified. Position the radio to give good range. Please note the DIA control box and radio are not weatherproof, and would require a weatherproof container if not mounted indoors. The Infra red beam boxes are designed to be mounted outside, and are weatherproof as long as they are mounted as per instructions

A Cobra MT radio must be used as a base station, but the receiving unit can be any PMR 446 radio. They are designed to work with each other regardless of the make.

Entrance/Exit siren isolation timer

A special 12 Volt timer which is added into the siren cable, to give temporary entrance/exit isolation. When the button is pressed, the timer prevents the siren from working for approximately ten minutes. This can be reduced by adjusting an internal pre-set.

Specification

The module consists of a relay and timer circuit, with an adjustable off period.

Press button to trigger in the front of the box.

Extra buttons or key switches can be added for remote triggering.

The timer is adjustable from approximately :-1 sec to 10 mins

Power input :- 12V Dc from siren power supply

Housing :- Black plastic (ABS) box 105 X 73 X 50mm

Function Delay Timer Module 2d TM 022005

This device was developed to meet requests for extra functions on the Sutcliffe 'DRIVEWAY INTRUDER ALARM' and can be used amongst other ways:-

- 1) To add a lighting function to the standard system, or any other alarm panel. A Photocell switch or time clock would also be required.
- 2) - A press button timer for lights in stair wells, outside lights etc.

Though the module is designed to complement the Sutcliffe Driveway Intruder Alarm, it is a stand alone item and be easily interfaced with other devices.

FENCESENSE

Stock-fencing monitor



A device to give warning that your electric stock fence is not functioning correctly. Once the voltage in an electric fence has dropped to about 3000V or below, it is rapidly reaching the point when it is no longer effective. The FENCESENSE gives a regular loud beep when this point is reached, allowing the fault to be rectified before the animals get out.

Just hang the FENCESENSE on the electric fence wire, clip the orange lead to the fence, and the green lead to a good earth, switch on and leave.

The device is powered from three AA cells, Which should give a monitoring life of about a year. (life depends on the quality of the batteries used) If the batteries become low, the red indicator light goes out, and when flat, the beep is activated continuously, this being the fail safe mode.

Trailer security

Telescopic Hitch Post



It is well known that even if wheel clamps, and a hitch lock have been fitted, the thief still seems to be able to tow a trailer away. One way to protect this valuable asset is to lock it to the ground.

The Telescopic Hitch Post, consists of an outer steel tube, 800 mm in length, and an inner telescopic tube of 5 mm wall thickness, which is designed such that it cannot be removed, and is topped with a 50 mm tow ball. The outer tube is sunk into the ground, flush, and concreted to make it permanent. Since it cannot be dismantled once it is fixed in the ground, there is nothing to get lost.

Ideal extra protection on your drive, or caravan / trailer storage facility.

In use, the trailer is positioned over the ball, and unhitched from the towing vehicle. The post is then raised, the tow hitch fixed to the ball, and locked on with your standard hitch lock. It is then impossible to tow away the trailer without taking time to destroy the hitch lock, or by cutting through the steel tube. The tube can be held up by inserting a steel pin, but can also be locked up with a long hasp padlock.

The Telescopic Hitch Post takes time and tools for the thief to overcome. Your expensive trailer cannot be towed away by just winding a chain round the locked hitch and dragging the wheel clamps until they fall off, or up onto a low loader with them still on. We would still recommend that other security is fitted on your site to give advanced warning that there is an unwanted visitor, about to cause you a loss.

For prices and supply, please contact us.

Sutcliffe Electronics, 15 West Street, Hothfield, Ashford, Kent TN26 1ET