

# MS1000

## MAINS SIGNALLING P.I.R. FOR EXTERNAL USE. INSTALLATION/OPERATION INSTRUCTIONS

The MS1000 is a mains operated P.I.R. detector capable of directly switching on lighting up to 1000watts and also signalling information through the mains wiring to operate additional accessories that are connected to the same mains wiring. The signal is blocked by the electricity meter and therefore cannot operate equipment in other premises. Do not use other mains signalling equipment in the same premises as interference will occur.

(A LIST OF ACCESSORIES ON REAR PAGE)

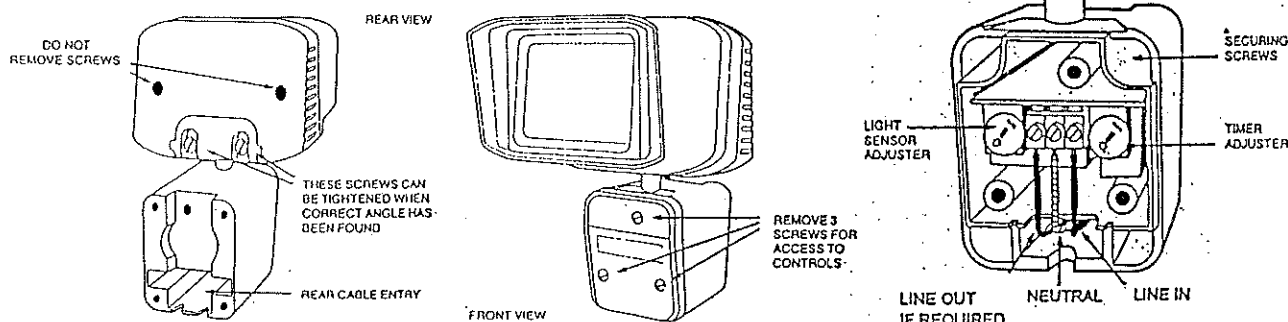
### PLANNING YOUR INSTALLATION

The average height to mount the detector is 2 to 2.5 meters and if possible for best efficiency choose a position where people are likely to walk across it's view rather than towards it. Do not allow foliage to grow directly in front of the detector and avoid siting where there is a central heating boiler outlet near by.

Trees bushes and even washing hanging on a line can when blowing in the wind activate the unit.

Fix the detector in place using 4x No6 x 3/4" wood screws through the holes provided.

The mains cable is passed through from the rear of the mounting housing.



### LENS OPTIONS

The MS1000 is available in three different lens versions as shown.

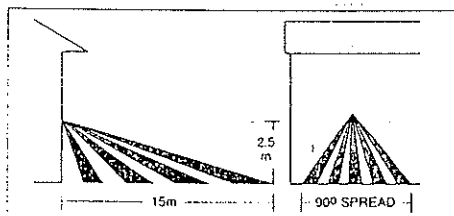
The lenses are fitted during manufacture and are not interchangeable.

The 15 Metre x 90 deg Standard lens is by far the most popular and is ideal for general use.

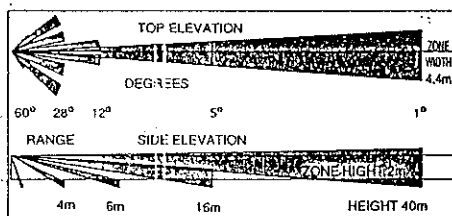
The 40 Metre x 1 deg Long range lens is used for perimeter protection or to cover objects such as a shed or car etc.

The 12 Metre x 100 deg Curtain lens does not have creep zones and therefore cannot detect small animals at ground level.

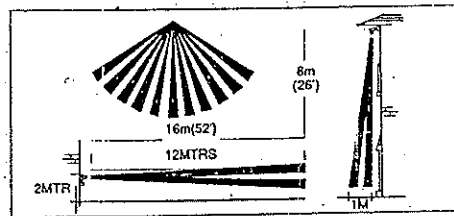
The Curtain lens can also be fitted under the eaves to give a curtain coverage.



15 Metre 90deg standard



40 Metre narrow beam



12 Metre 100 deg Curtain

### WIRING THE MS1000

This detector is a class 2 product and does not require an earth, therefore only two core cable need be used.

All wiring must be in accordance with IEE regulations. If in doubt contact a qualified electrician.

### SIGNALLING ONLY.

Supply a two core mains cable with a conductor size of at least 1mm.

Pass the cable through the rear of the mounting housing and connect to the terminals LINE IN and NEUTRAL.

Connect the other end of the cable to the mains supply via a fuse. A 13Amp plug top with a 3 Amp fuse will be sufficient.

Alternatively connect to a switched fuse spur or consumer unit with 3 amp fuse.

### DIRECT OPERATION OF LAMP. (MAX 1000WATTS)

Wire the MS1000 exactly the same as in SIGNALLING ONLY but with the addition of a further two core cable connected to LINE OUT and NEUTRAL. Connect the other end of the cable to the lamp.

Use a 5 Amp fuse for up to 500 Watts and a 10 Amp fuse for up to 1000 Watts.

### LIGHT SENSOR & TIMER CONTROLS.

The light sensor and timer controls are situated either side of the mains terminal as shown.

The MS1000 will operate the lamp during the day when the light sensor control is turned fully anti-clockwise.

Turning the control fully clockwise prevents the lamp from operating in day light.

The mains signalling will operate day and night regardless of the light sensor control setting.

The time control sets the Lamp On period from 5 seconds (fully anti-clockwise) to 5 minutes. (Fully clockwise).

## TESTING the MS1000.

Isolate mains power before making any adjustments. Turn both the light sensor and time controls fully anti-clockwise.

Now switch on the power and allow at least 2 minutes for the unit to settle.

Walk across the path of the detector slowly stopping every time the lamp lights.

If a lamp is not connected then one of the accessories can be used to monitor the detection such as the MSR receiver or MSB plug in bleeper. If the MSB is used to monitor the walk test it should be understood that it has a lock out time of

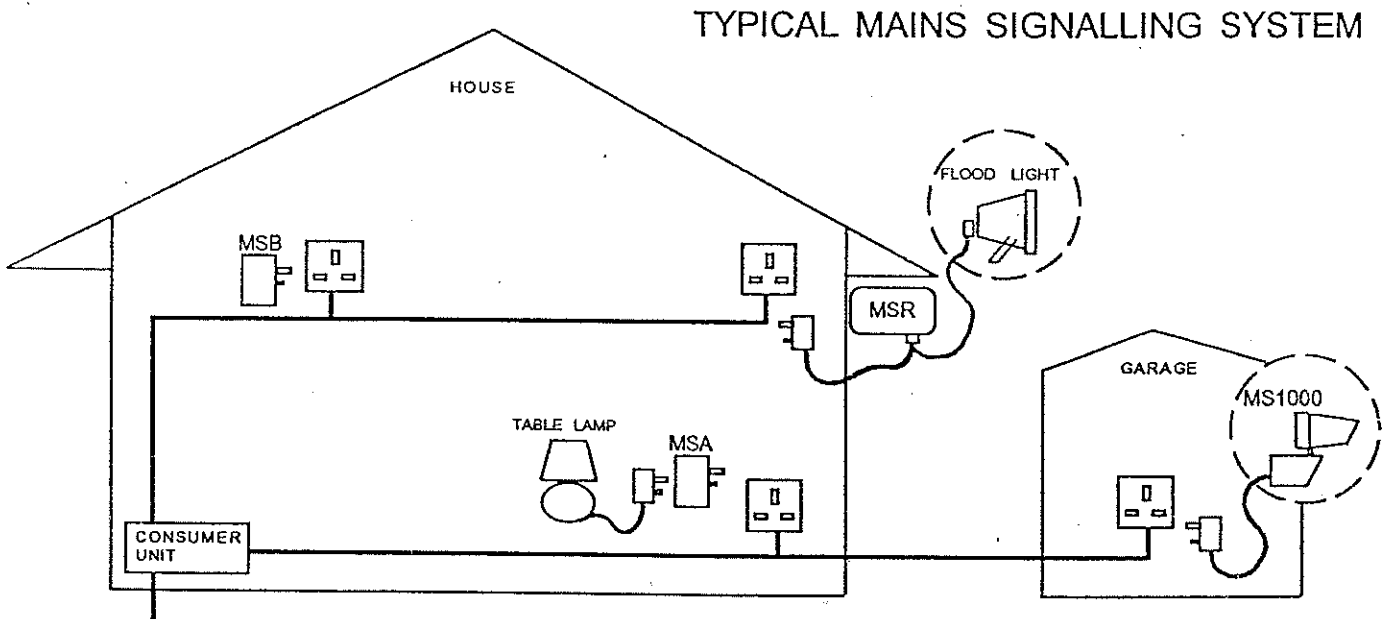
5 seconds after each bleep which must lapse before proceeding with the walk test otherwise the bleeper will not sound again.

When satisfied turn the time and light sensor controls clockwise to increase the time and inhibit day time operation.

NOTE. The light sensor control does not affect the mains signalling feature which operates both day and night regardless.

## OVER-RIDE

If the lighting connected directly to the MS1000 is required to be left ON for long periods of time, an over-ride switch may be fitted as follows. Wire a standard 5 amp light switch across terminals marked LINE IN and LINE OUT.



## USING THE MAINS SIGNALLING ACCESSORIES.

The MS1000 will work with all the current mains signalling accessories listed overleaf provided that they are connected to the same phase and are the same side of the electricity meter as the MS1000.

**Model (MSB) PLUG IN BLEEPER FOR DAY AND NIGHT USE.**

Simply plug the MSB into any available mains socket in the premises to obtain audible indications of approaching persons.

**Model (MSA) PLUG IN SECURITY LAMP ADAPTOR MAINS SOCKET.**

This product has a standard mains socket outlet and can itself be plugged into any mains socket to operate to control a security electrical appliance. Eg. Table lamp, radio etc.

A light sensor inhibits day time operation and a light sensor control can be adjusted for different light levels or used to enable the product to operate at all times. The socket outlet will switch 1000 watts and is internally fused.

The timer is fixed at 4 minutes but will restart each time a signal is received.

**Model (MSR) COMBINED REMOTE RECEIVER AND CONTROL UNIT.**

Remote lighting can be operated by the MS1000 without having to wire the two together.

The MSR will switch On lighting up to 2000 Watts for up to 5 minutes (variable).

The timer is reactivated each time a signal is received.

The lighting will turn Off up to 5 minutes after the last detected movement.

**Model (MST) PLUG IN TRANSMITTER FOR USE WITH (MSR) RECEIVER.**

This plug in transmitter can be plugged into any available wall socket and will operate the MSR receiver to activate lighting continuously. (Over-ride).

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