

HE400

Barriers for Outdoor Protection



III level

The HESA HE400 Microwave Barrier with its 200m range represents a breakthrough in Outdoor Perimeter protections.

Its innovative circuit and the possibility to adjust its radiation pattern on-site means that the same barrier can be used practically under any environmental conditions.

It is possible to use more than one barrier in the same area thanks to the four available

FM wave bands programmable on-site. For larger areas you can use as many microwave barriers as necessary, by simply following the instructions in the manual.

The processing board and antenna are attached to a solid die cast aluminium base and protected by a sealed radome with visor in ABS plastic. The back-up battery ensures more than 36 hours of operation in case of a power failure and acts as a filter against electrical disturbances.

The barrier comes complete with a sturdy joint clamp for installation on any flat surface or on posts with a 70 to 110mm diameter.



- **Bistable microwave barrier**
- **Vibration, wind, fog, rain, snow, dust and extreme temperatures insensitive**
- **Low current drain (80mA per barrier)**
- **4 on-site programmable FM wave bands**
- **9.9GHz operating frequency**
- **Phase-locked loop (PLL) signal processing with wide dynamic range**
- **Multi-barrier synchronisation possibility**
- **Directive radiation pattern modification option for improved detection**
- **More than 36 hours of operation with 12V 2.1Ah back-up battery**
- **IMQ Security Systems 3rd level Certification**



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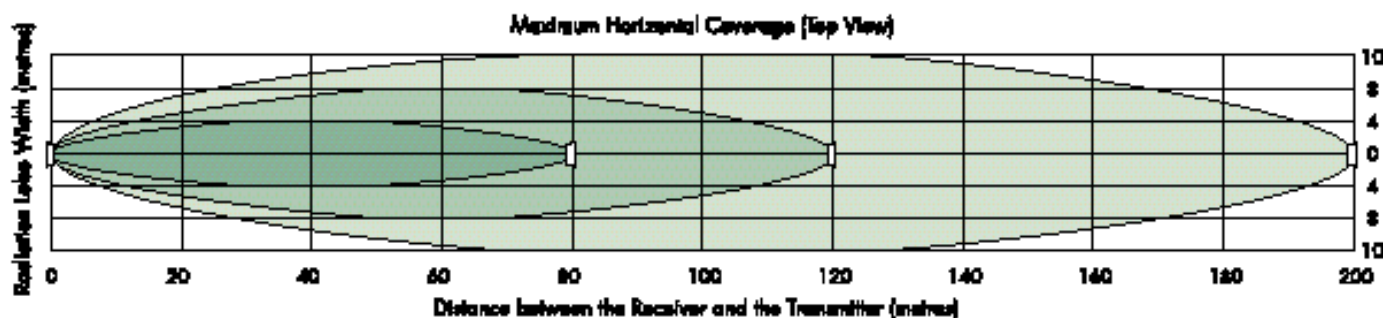
III level

Operation

The HESA HE400 Microwave Barrier consists in a Receiver and a Transmitter placed at a maximum 200m distance from each other. Intrusion is detected within the microwave energy field between the Receiver and Transmitter using an AM sensitive (non Doppler) system. Signal amplitude variations at the Receiver are directly proportional to the size and density of the detected object which enables the sensor to distinguish among different objects. The HE400 Barrier will release the alarm if a man walks, runs or crawls through the protection field. The Barrier can be set on-site to trip the alarm for smaller or larger objects according to specific requirements. For further information on the HESA HE400's technical features, operation, installation and setting please consult our Technical Manual.

Detection Diagrams

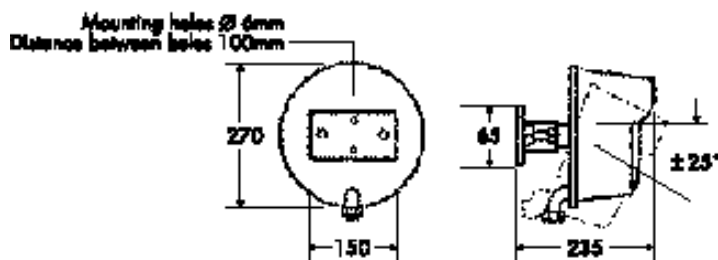
The HESA HE400 Microwave Barrier can be adjusted on-site according to the sensitivity and detection speed required. Generally speaking, the range of the protected area varies proportionally to the distance between the Receiver and the Transmitter, from a minimum of 5m to a maximum of 200m.



Specifications

Power Input:	19VAC, requires 230VAC/19VAC 30VA Transformer
Current Drain:	Transmitter: 38mA Receiver: Stand-by 45mA; in Alarm 40mA.
Frequency:	9.9GHz
Range:	5 - 200metres
Operating Temperature:	-25°C to +55°C
Alarm Output:	N.C. contact, 100mA resistive load @ 24VDC
Tamper Contact:	N.C.
IP Rating:	IP55
Weight:	3.2 kg (each set of equipment) 8.1 kg (complete with mounting brackets and carton packing)

Dimension (mm)



How to Order

HE400 Outdoor Microwave Barrier, complete with Transmitter, Receiver and two HE401 joint clamps.



HE401 Sturdy joint clamp for mounting the unit on posts with a 70 to 110mm diameter.



HE402 Horizontally hinged mounting for wall installation.



HE410 Outdoor Cabinet to house a 230VAC/19VAC transformer. Requires 2 HE403 clamps for mounting on posts with a 70 to 110mm diameter.



HE403 Clamps for mounting on posts with a 70 to 110mm diameter.



HE405 230VAC/19VAC, 30VA transformer.

