

427-4672

M20

ACTIVE INFRARED BEAM Weatherproof

The M20 passive modulated infrared intruder detector is situated into an alarm side when the invisible beam is interrupted.

Designed for outdoor and indoor applications, the M20 is ideal as a detector in intruder alarm systems for residential, commercial and industrial buildings, particularly when installed outdoors for driveway, approach roads, factory bases, or indoors for areas such as corridors, halls, aisles, windows etc. The M20 offers a low cost protection system not easily achievable by other forms of detection devices.

Installation

The filter covers are opaque to visible light and as the infrared emission is invisible the source of the beam is disguised. Dummy housings may be used to confuse the intruder as to the position of the active beam.

The M20 may be used in multi beam installations to provide an invisible barrier of protection. A separate data sheet is available detailing housings suitable for multi beam barrier installations.

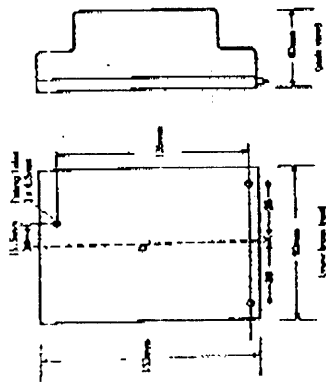
The M20 may also be used in glass partition compartmented areas and since there will be some attenuation of the range, reference to the material's transmission substitution should be made.

Specifications

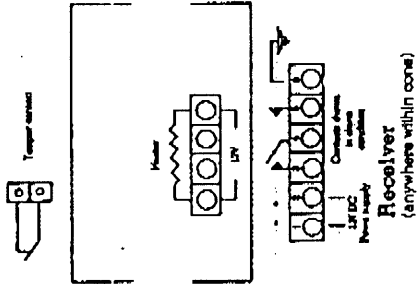
All ranges quoted are achieved with the filter attenuator SAA112 inserted in the Irredible beam. This filter attenuator reduces the infra red signal by 65% and ensures the stated ranges are conservatively rated, minimising the risk of false alarms.

The M20 complies with BS4777, Part 3, Section 3.12

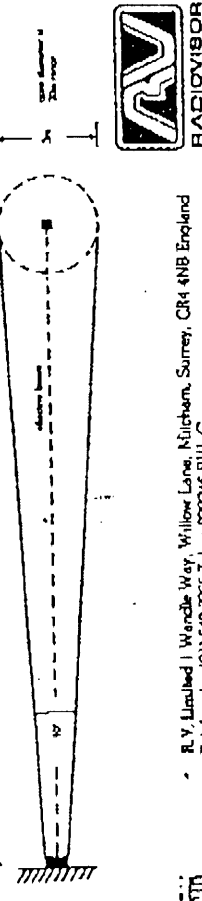
Dimensions & Fixing



Wiring Connections (Receiver)



Projector



R.V. Limited, Willow Way, Willow Lane, Nutham, Surrey, CR4 4NB England
Tel: London (01) 640 3055 Telex: 920246 RVL G

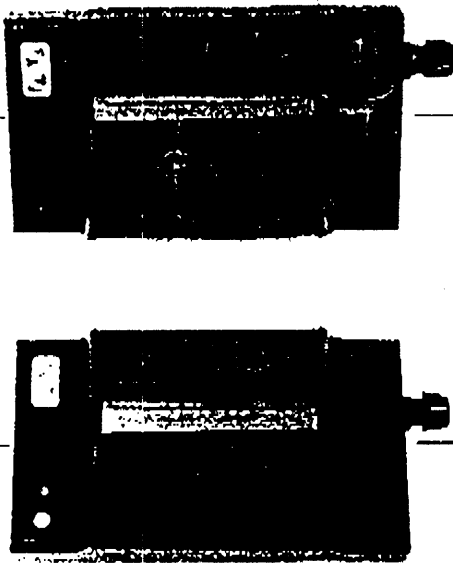
Ref: 10/84/US/128/R687

EMC DIRECTIVE
89/336/EEC

TO EASE YOUR PATH TO
SYSTEM CONFORMITY
WITH THE DIRECTIVE
WE RECOMMEND
THE SUPPLY SHOULD HAVE A FLOATING
OUTPUT TO ACCEPT THE
NEGATIVE SARTH
ALL CABLEING SHOULD
BE SCREENED



1995



- EASY INSTALLATION and NON CRITICAL ALIGNMENT (thanks to wide angle optics)
- OUTDOOR AND INDOOR (Weatherproof as standard with lens heater included)
- ANTI-SUN CIRCUIT (minimises effects of sun in east-west orientation)
- RANGE INDOORS 20 METRES (easily achieved using only 33% of available energy)
- RANGE OUTDOORS 15 METRES (easily achieved using only 20% of available energy)



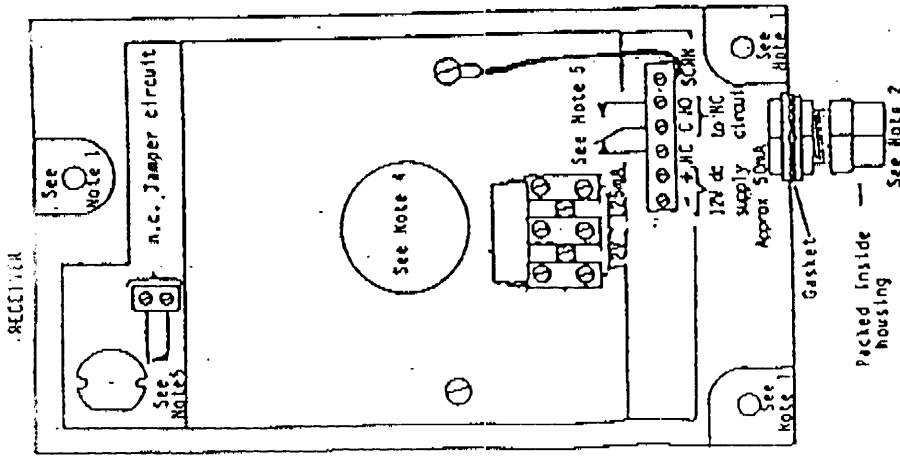
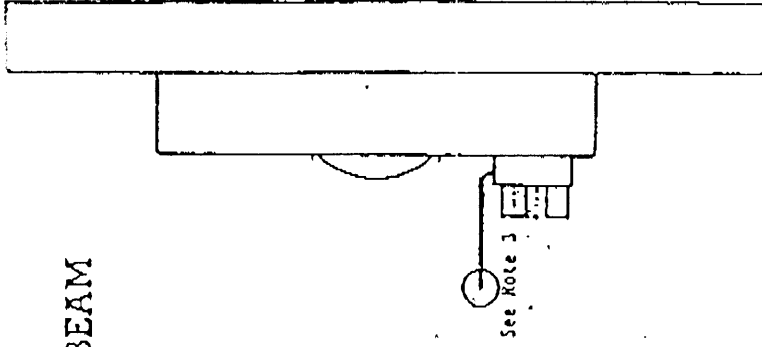
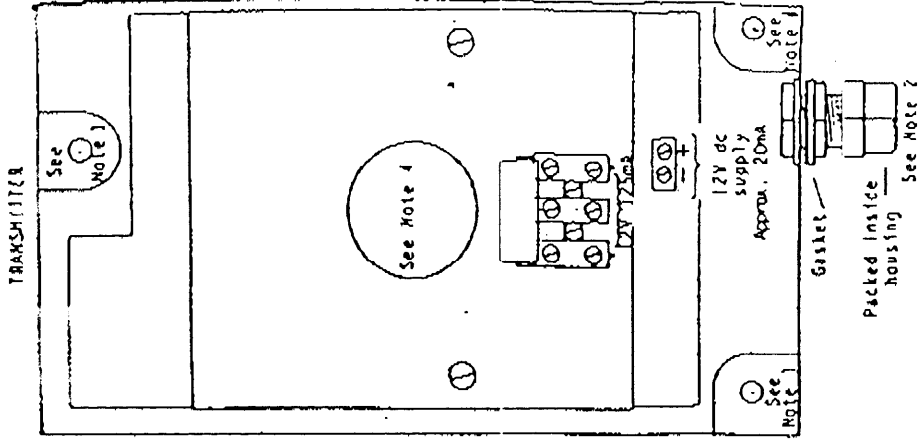
RADIOVISOR

1/2

M20

ACTIVE INFRARED BEAM

Weatherproof



- NOTES:
1. Fixing holes, 4.5mm clearance.
 2. Fit cable glands as shown. Use circular cable 4-7mm dia.
 3. Cover heater. Make sure the heater is in the correct position as shown and does not obscure the lens area. Do not use the heaters if the units are used indoors. If long cable runs are used it is recommended that an extra pair of wires are used for the heater supply.

4. Internal alignment adjustment not required. Install units on parallel walls, the same height from the floor and directly opposite each other on firm surfaces. Max. range outdoor 15m. Max. range indoors 20m. Use SAH1-12 filter attenuator to prove system.
5. Contacts shown in the Alarm condition, i.e. cover off and relay de-energised.
6. Voltage range, minimum 10.5, maximum 15V approx. 70mA total with relay energised.