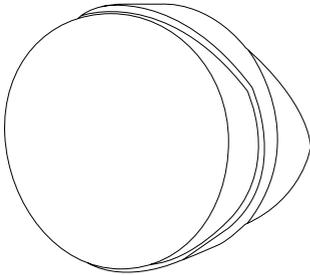


MX 35

GJD101 Passive Infrared Detector



GJD
DETECT & SECURE



INTRODUCTION

An accurate 35m low voltage outdoor passive infrared detector designed for event driven alarm and CCTV applications.

The MX35 is a highly reliable and effective sensor with tamper protection to prevent the unit being re-aligned without authority. The adjustable range and integral dual axis tilt module allows 180° of pan and 90° tilt, this increases the speed of outdoor installation and provides incredibly accurate aiming of the detection pattern.

The electronics module is also acrylic coated for additional component stability. It is encased in a vandal-resistant high impact ABS housing with a UV stabilised front cover ensuring the sensor is impervious to an unaffected by adverse weather conditions. The MX35 design gives a near appearance with no visible indication of the orientation of the detector head, and totally conceals the wiring.

MOUNTING THE UNIT WARNING

- NYLON WASHERS PROVIDED MUST BE USED WITH SCREWS
- ENSURE CABLE ENTRY AND SCREW HOLES ARE SEALED WITH WATER BASED SEALANT
- DO NOT USE SILICONE BASED SEALANT

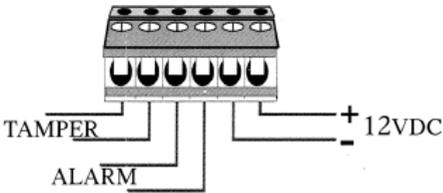


GJD MX35 Specifications	
Area	10 to 35m (adjustable) up to 750m square metres
Coverage	90° 35m x 30m maximum
Adjustment	180° pan + 90° tilt - area reduction mask (if required)
Lens	Fresnel: 36 zone - White Light Filter
Customised Optics	Double silicon shielded dual element eliminates 50,000 + lux of white light
Output - Alarm	Volt free relay signal contact - 24VAC/DC @ 50mA Normally closed open on detection - alarm period two seconds (When testing with digital volt meter: set greater than 100 ohms as relay is protected by 30R series resistor)
Output - Tamper	Volt free output (form B) remains closed on detection The housing is pressure regulated - the output will open for two seconds if the front cover is removed or tampered with
Power Input	9 to 15 VDC
Current	9mA (12V nominal)
Control	Digital ASIC/microprocessor
Operating Temp.	-20 to +55 centigrade Conformally coated electronics for increased stability
Housing	Rating IP55 - High Impact ABS housing (white) Protective ultraviolet stabilised cover
Dimensions	104 x 104 x 94 mm Weight 140 grams
Mounting	Height - Variable - optimum height 3 metres
Cable	up to 200 metres : standard 6 core 7/0.2mm up to 500 metres : standard 6 core 16.0.2mm

INSTALLATION

During installation the electronics must be protected against water, as trapped moisture can effect or damage the unit.

1. First remove the front polythene cover by pulling forwards, then remove the lens module by pulling it out of the forked bracket.
2. Drill the wall to accept the top fixing and the lower cable entry. The holes should be on 16mm centres.
3. Feed standard 6 core alarm cable into lower cable entry; bare the wired and connect to the removable terminal block.



4. Always ensure when replacing the module that it is the right way up for the correct alignment of the beam pattern. (page 3 multi beam lens data)
5. Replace the front cover with the ventilation hole at the bottom. Ensure the cover engages both sides of the outer casing before pressing firmly to locate it securely.
6. Apply the power - the red LED flashes for 0.5 seconds.

At this stage the unit can be walk tested with the front cover fitted.

ALIGNMENT AND TESTING

At this stage, weather permitting, the unit can be walk tested. Adjust the range as necessary and pan and tilt the lens module over the field of view to obtain the correct beam coverage ensuring that the detection beams do not exceed the area being covered.

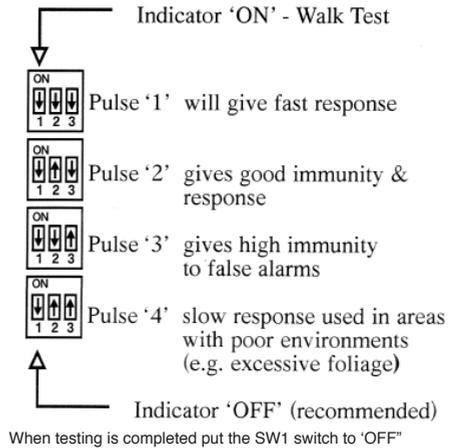
When the SW1 is switched to 'ON' (walk test mode) the red indicator will light when the beams are crossed. This provides the facility to align the detector module ensuring that beams do not fall out side the area to be covered. (see page 3)



Adjust the range of the detector with a small screwdriver, behind the Fresnel lens. The diagram indicates this is set to 20 metres.

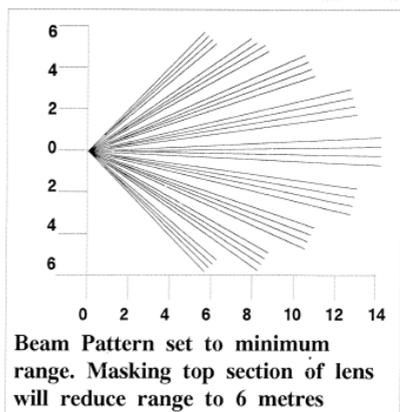
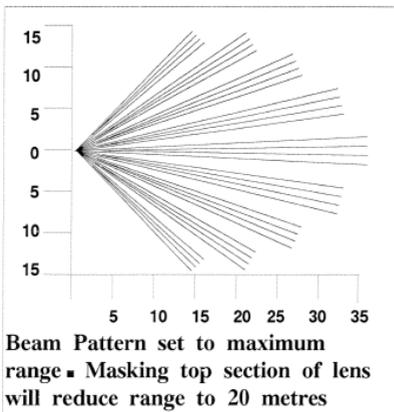
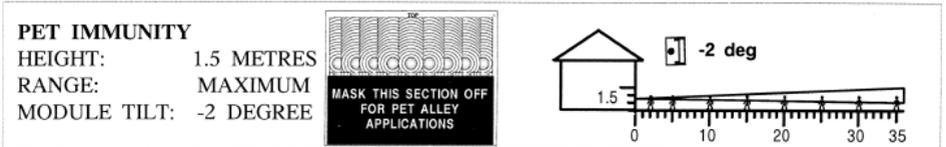
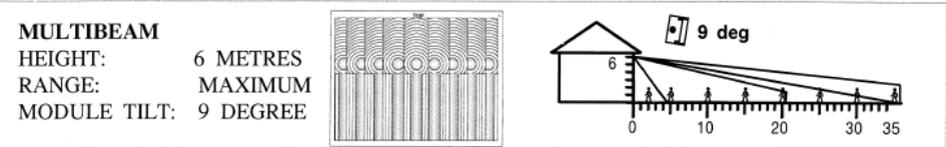
The range of the detector increases without the front protective cover. Therefore remember the front cover must be fitted when testing the outputs.

As the unit detects the changes in heat and movement in the beam pattern area, therefore trees, shrubs, ponds, boiler flues and animals should be considered when positioning the detector. In poor environment utilise the 'pulse count' option - this is the number of beams that have to be crossed before activation of an alarm.



MULTI BEAM LENS DATA

The GJD multifunction lens fitted to the GJD MX35 detector produces 9 long range beams and 9 medium to short range curtain beams. Movement across the beams produces the best response and range, whilst movement towards the detector will be less responsive. When mounting higher than boundary fences rotate the module and mask of any beams, either vertically or horizontally, that fall outside the area being covered. Use portions of the self-adhesive silver mask supplied to the rear, smooth side, of the lens and always replace the correct way up as shown to obtain the exact beam pattern coverage.



ENGINEER NOTES

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