



ELITE PIR Detector

The Elite offers a high level of adaptability. There are seven different modes of operation, giving various permutations of normally open and normally closed arrangements for the two volt-free relays, plus a selection of timing and functional options for the relay changeover contacts.

Other programmable parameters include the duration of timed changeover, a pulse count feature and a choice of detection ranges from 32.8ft to 114.8ft (10 to 35m).

PRODUCT CODES

GJD023W Elite External PIR (White Housing)

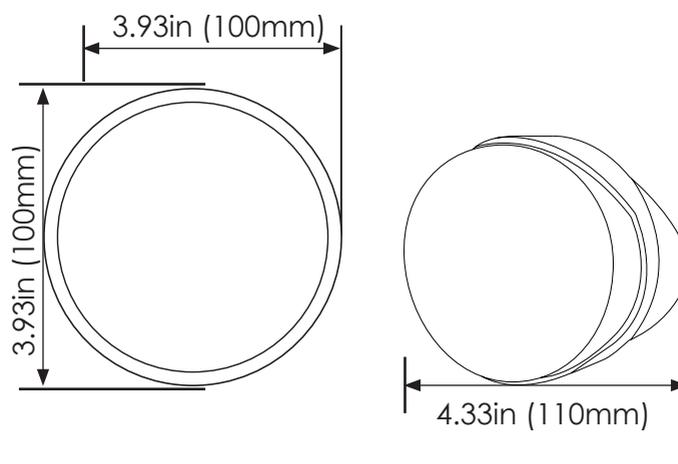
UNIQUE FEATURES

- Digital ASIC/microprocessor control
- Output test mode with LED indication
- Digital white light filter
- Area reduction mask (if required)
- Non-volatile memory

END USER BENEFITS

- Conformally coated electronics for increased stability
- GJD 100% test verification
- Aesthetically pleasing design
- Programmable detection ranges

DIMENSIONS



SECTORS



RESIDENTIAL



COMMERCIAL



INDUSTRIAL



BORDERS



MILITARY BASES



PORTS



POWER PLANTS



HERITAGE



AIRPORTS

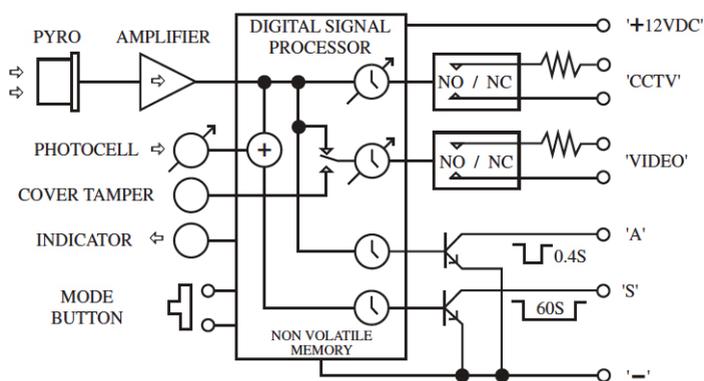


PRISONS

TECHNICAL SPECIFICATIONS

DETECTION AREA		32.8ft (10m) to 114.8ft (35m) (adjustable) up to 2460ft (750) sq metres
COVERAGE		90° 114.8ft x 98.5ft (35m x 30m) max
ADJUSTMENT		180 degree pan + 90 degree tilt
FRESNEL LENS		36 zone - white light filter
CUSTOMISED OPTICS		Double silicon shielded dual element eliminates 50,000+ lux of white light
OUTPUTS		Silent solid state magnetically immune
ALARM 1	'CCTV'	Volt free relay signal contact @ 24VAC/DC @ 50mA with an integral 30Ohm series resistor. Selectable normally open/normally closed. Adjustable timer options: 0.4 to 60 seconds
ALARM 2	'VIDEO'	Volt free relay signal contact @ 24VAC/DC @ 50mA. Selectable normally open/normally closed with an integral 30 ohm series resistor. Adjustable timer options: 2 to 60 seconds
ALARM 3	'A'	Open collector negative switching - 25mA max. Alarm period 400ms
ALARM 4	'S'	Open collector negative switching - 25mA max. Alarm period: Detection + 60 seconds Adjustable: Dusk (2 lux) to 24 hour
POWER INPUT		9 to 15VDC
CURRENT		10mA (12V nominal)
PULSE COUNT		1,2,3 & 4 previous detection ≤ 6 seconds
TAMPER		Opens for 2 seconds when cover removed and / or 'A' & 'S' outputs pulse for 60 seconds (programmable)
TEMPERATURE COMPENSATION		Digital sensitivity adjustment
OPERATING TEMPERATURE		-20 to +55°C
HOUSING		High Impact ABS
PROTECTION RATING		IP55
DIMENSIONS		4.09in x 3.93in x 3.93in (104 x 100 x 100mm)
WEIGHT		145 grams
MOUNTING HEIGHT		Variable - optimum height 9.84ft (3m)
CABLE	UP TO 200 METRES UP TO 500 METRES	Utilising all four outputs - 8 core 7/0.2mm Utilising all four outputs - 8 core 16.0.2mm
PART NUMBER (WHITE)		GJD023

GJD ELITE BLOCK DIAGRAM



RELIABILITY

Detecting emitted infra-red energy of humans equates to recognising subtle changes of energy in the detectors field of view; whilst rejecting changes in other wave lengths that are caused by other factors.

The Elite's custom designed ASIC microprocessor combined with GJD's unique optical system, filters the information received to give the required precision detection performance.

GJD combine this technology with a double silicon shielding of the pyroelectric sensor. The combination of precision electronics, digital white light filter and double shielding resists more than 50,000 lux of unwanted sunlight; therefore eliminating false alarms from visible light sources.

