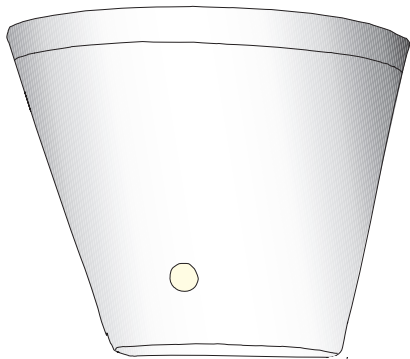


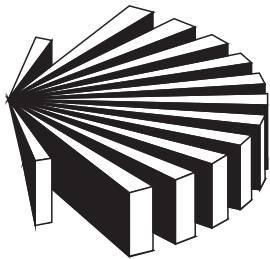
GJD RADIUS LUX

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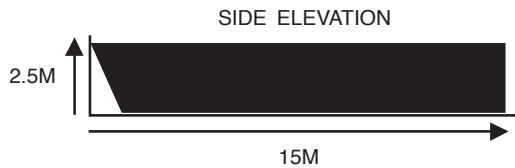


The RADIUS LUX is a combined internal PIR detector with additional lighting and heating activator. It is compatible with all standard alarm panels, GJD lighting controllers and solid state relays.

The RADIUS LUX is supplied pre-programmed ready to use. These settings can be modified by the installer using the rear program button and front red and green indicator.



BEAM PATTERN



SPECIFICATIONS:  Version DDE6

- RANGE:** 15 Metres over 140 Degrees - Multi-curtain lens
- VOLTAGE:** 10 to 16 VDC at 11 mA reverse polarity protected
- PROCESSING:** Digital - microprocessor controlled
- ALARM:** Normally closed contacts rated at 100mA at 50 VDC with 22 ohm 1/8W series resistor.
- TAMPER:** Normally closed contacts rated at 500mA at 50 VDC.
- 'A' OUTPUT:** Negative switching at 25mA every time a detection takes place day or night. Stays negative for the length of the 'A' timer after last detection.
Pulse count 1
- 'S' OUTPUT:** Negative switching at 25mA with detection when dark. Stays negative for the length of the 'S' timer setting after last detection. Inhibited if the light level exceeds 1000 LUX unless in 24HR.
Pulse count 1
- 1 TEMPERATURE:** -10 to +50 Centigrade

Changing the existing settings

The program button is located inside the unit on the rear of the circuit board whilst the RED and GREEN indicators can be seen from the front of the lens.

To familiarise yourself with the unit, first check the existing settings. View the unit from the front and BE READY TO COUNT THE FLASHES. Press the program button MOMENTARILY then :-

Count the number of GREEN flashes (this represents the present selection) Count the number of RED flashes (this corresponds to the present option)
- see programming table.

After 3 seconds the GREEN indicator blinks once, and the unit exits the program mode and functions normally.

Example 1. To set the light level to 5 LUX.

- a) First, choose the SELECTION and OPTION required from the table. (ie. 4x GREEN flashes, 3x RED flashes) :-
- b) Press and HOLD the program button until the GREEN light flashes 4x in rapid succession, then release the button. After a pause, the indicator will then carry on to flash RED.
- c) Count the RED flashes, and if they need to be changed press and HOLD the program button (within 3 seconds) until the RED indicator flashes 3x in rapid succession, then release the button.

After 3 seconds the GREEN indicator blinks once, the change is stored and the unit exits from the program mode .

Example 2. To set the 'S' TIME to 8 mins.

- a) First, choose the SELECTION and OPTION required from the table. (ie. 5x GREEN flashes, 5x RED flashes) :-
- b) Press and HOLD the program button until the GREEN light flashes 5x in rapid succession, then release the button. After a pause, the indicator will then carry on to flash RED.
- c) Count the RED flashes, and if they need to be changed press and HOLD the program button (within 3 seconds) until the RED indicator flashes 5x in rapid succession, then release the button.

After 3 seconds the GREEN indicator blinks once, the change is stored and the unit exits from the program mode.

RADIUS LUX PROGRAMMING TABLE

GREEN SELECTIONS

GJD factory settings are highlighted

* = approx.

** = alarm output
and LED only

1x	RANGE metres*	8	12	15						
2x	PULSE COUNT**	GJD	2	3	4	5				
3x	LED MONITOR	OFF	ON	LUX	NPC					
4x	LUX light level*	1	2	5	20	50	100	24HR		
5x	'S' TIME mins*	1	2	3	5	8	12	16	24	32
6x	'A' TIME mins*	0	8s	1	2	4	8	16	24	32

RED OPTIONS → 1x 2x 3x 4x 5x 6x 7x 8x 9x

All programmed functions are saved if power is removed from the unit.

- GJD:** Reset back to factory settings.
NPC: RED movement indicator has no pulse count.
24HR: Lighting activates with movement 24 hours.
LUX: RED indicator illuminates when the light level is too high for the RADIUS LUX to activate the room lighting.
- PULSE COUNT:** The number of beams that have to be crossed to trigger the unit.
 1 will give a fast response.
 2 gives better immunity with good response.
 3 gives highest immunity to false activations in poor environments but is less responsive.
- LUX light level:** 2. Pass through areas when natural lighting is insufficient.
 (as a guide) 20. Normal office requirements when increased illumination is required.
 100. Inspection areas when bright illumination is required.
 24HR. Will operate the lighting in response to movement 24 hours.

TO RESET THE UNIT BACK TO FACTORY SETTINGS:

- EITHER:** Unplug the +/- 12VDC terminal block from the unit whilst the power is connected.
 Press and HOLD the program button whilst the terminal block is
- OR:** reconnected to the unit, then release the button.
 Select the factory setting from the programming table
 ie. 2x GREEN flashes, 1x RED flash

WHEN INSTALLING THE RADIUS LUX ENSURE THE WIRING DOES NOT PRESS ON THE TAMPER SWITCH OR PROGRAM BUTTON.

Caution: If this equipment is intended for applications not specified please contact GJD before installation.
 GJD reserve the right to alter the specification without notice.

INSTALLATION

Mount indoors in a dry position on a rigid surface to avoid movement of the detector. The multi curtain beam pattern allows the unit to be mounted between 2 and 4 metres high without the need to align the beam pattern. If the unit is mounted high the blind area below the detector will increase (see beam pattern). The ideal position for the unit is one which detects movement across its field of view (not towards the unit) which will give the best detection response.

As the RADIUS LUX detects a heat change in its field of view, AVOID:-

- Radiated, convected heat sources, and ventilation ducts.
 - Direct and reflected sunshine.
- Position the unit far enough away from light fittings to prevent excessive heat or light affecting the normal operation of the unit.

TO SEPARATE THE RADIUS LUX:

- Slacken the screw at the base of the unit
DO NOT REMOVE.
- Ease the bottom of the front lens assembly forwards.
- Ease the assembly downwards.

Mount the rear mounting plate in the selected position using the supplied screws/fixings. Avoid over tightening the screws or the rear mounting plate will be distorted.

Standard alarm cable is recommended for all connections. Remove the outer sleeving from the cable inside the case to make the connections more flexible and easier to connect. The terminal blocks plug onto the circuit board and can be removed to ease wiring if required.

Reverse the procedure when assembling the unit, taking care NOT TO OVER TIGHTEN the base screw or trap wires against the tamper switch or program button.

