## P.I.R. OCCUPANCY DETECTORS CEILING MOUNTED

EO-C.. 1

| Lese units are used for lighting control and |
| :--- | :--- | :--- | :--- |
| Thes |
| designed to be installed into ceiling tiles. They can |
| be connected to control circuits or BMS systems. |
| The EO-CL1 has an in-built adjustable lux sensor |
| which will switch on the lighting only when ambient |
| light falls below the pre-set level and movement is |
| detected. The time delay prevents nuisance |
| switching and is reset whenever movement is |
| detected. |

INSTALLATION: Install the unit at least 1 m away from any lighting source. Do not mount onto a vibrating surface.
DO NOT MOUNT IN DIRECT SUNLIGHT OR NEAR HEAT SOURCES. In larger areas wire more switches in parallel to power the load.

Flush Mounting: The occupancy detectors may be flush
mounted through a 64 mm diameter hole in the ceiling. Use the plastic mounting bracket and clips supplied to fix the flush mounted detector.


Surface Mounting: Alternatively the detectors can be surface mounted using the optional Back Box, which may be screwed to the ceiling.


## WIRING:



EO-CL1


Time Delay Setting (EO-CO \& EO-CL):
Timing is adjustable between 10secs to 30mins using the screwdriver slot labelled TIME.

## LUX Setting (EO-CL only):

The LUX level can be adjusted using the screwdriver slot labelled LUX. Turning towards maximum allows the lights to come on at a higher ambient light level (set fully to maximum, lights will be activated regardless of ambient level).

On movement C-NO closes
No movement C-NO opens (after time delay)

## P.I.R. OCCUPANCY DETECTORS

EO..


## DIMENSIONS

EO-NF


EO-SF / EO-VF / EO-SC / EO-VC


## DETECTION FIELD:



DO NOT MOUNT IN DIRECT SUNLIGHT OR NEAR HEAT SOURCES. In larger areas wire more switches in parallel to power the load.


## MICROWAVE OCCUPANCY DETECTORS





## INSTALLATION

Do not site within 1 m of any lighting or ventilation equipment.
Do not fix to a vibrating surface.
Site as far as possible from the surface of metal objects.

PROGRAMMING USING THE HAND SET

| Parameter <br> Name | $\begin{array}{\|l\|l} \hline \text { Default } \\ \text { Value } \end{array}$ | (1) Number of Shift key presses |  |  |  | UHS5 Handset Graphics | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{array}{\|ll\|} \hline 0 & \\ \hline \text { onnt } & 0 \\ \hline \end{array}$ | $\begin{array}{\|ll\|} \hline 1 & \\ \hline 0 & 0 \\ \text { surfr } & 0 \\ \hline \end{array}$ |  |  |  |  |
|  |  | Button Activation |  |  |  |  |  |
| On / Raise |  | On |  |  |  | $\frac{1}{1}$ | Turn lights on. |
| Off / Lower |  | Off |  |  |  | (\%) | Turn lights off. |
| Walk test | Off | On | Off |  |  | (\%m) | When set to On this causes a red LED flash on the sensor when it detects movement. Use this feature to check for adequate sensitivity levels. |
| Time Out <br> (Time <br> adjustment) | 10 mins | $\begin{aligned} & 1,10 \& \\ & 20 \\ & \text { minute } \end{aligned}$ | $\begin{aligned} & \hline 5,15 \& \\ & 30 \\ & \text { minutes } \end{aligned}$ |  |  | $1818$ | Once the detector is turned on, this value sets how long the lights will stay on once movement has ceased. |
| $\begin{array}{\|l\|} \hline \text { Lux on level } \\ \text { (Switch } \\ \text { level on) } \end{array}$ | 9 | 2, 5 \& 7 | 4,6\&9 |  |  | $\text { (1/2) 8/5 } 1 / 7$ |  |
| Lux off level <br> LSwitch (Switch level off) | 9 | 2, 5\&7 | 4,6\&9 |  |  | $\text { (1/2) (6/5 } \quad 1 / 7$ | Lux level setting to switch the luminaires off during occupancy if the ambient light level goes above the setting (adjustable between 1 and 9 ). Level 9 will always keep the lights on. This setting can be used for "window row switching". |
| Sensitivity | 9 | 1,5 \& 9 | 3,6\&8 |  |  | $\begin{array}{lll} 1 / 1 & 1 / 5 & 1 / 9 \end{array}$ | $\begin{aligned} & \text { Sensitivity level for detecting movement. } \\ & 1=\text { low sensitivity } \\ & 9=\text { high sensitivity } \end{aligned}$ |
| Defauls |  |  |  | D |  | (D) | Returns the unit to the default settings. |
| Presence / Absence | Presence | Presence | Absence |  |  | (1/P) | Absence mode not implemented-do not use. |
| Shift |  |  |  |  |  | (1) | Use this button to select the settings in red and blue signified by the 'Shift 1' and 'Shift 2' LEDs |

Point the hand set at the Sensor and send the required programming commands to the unit as shown below. Valid commands will be indicated by a green LED flash.

## NOTES:

The microwave radiation emitted by these units is of extremely low power. At a distance greater than 50 mm the power density is less than $6 \%$ of the ANSI IEE C95.1-1991 power density. At a distance of 5 mm from the unit it is less than $84 \%$ of the recommended power density.

