

These instructions apply to the Liteminder SET-SOLO1. Setsquare recommend all installations are carried out by a suitably qualified electrician and that these instructions are followed. Failure to do so may lead to damage to either the circuits or installer.

### Unit Description

The Liteminder SET-SOLO1 is an automatic light switching system which operates by sensing movement of infrared radiation from the human body. The unit incorporates occupancy detection, photocell and switching all in one ceiling mounted unit.

### Location

The sensor should be mounted on a rigid surface where it has a clear view of the occupancy zone, and should preferably be mounted in front of rather than activity.

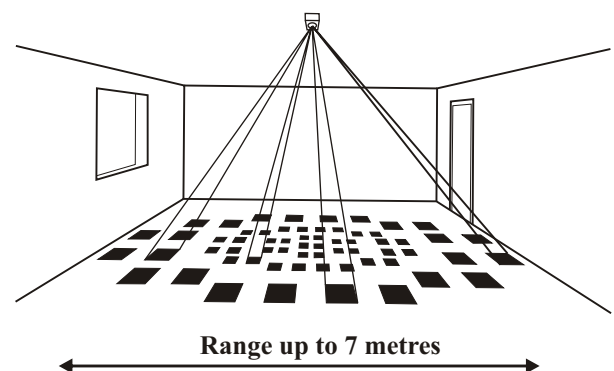
The sensor is designed to be surface mounted on the ceiling, positioned so that it does not look out of a door.

Avoid placing adjacent to forced air heating or cooling systems (1 metre or more in direct flows).

### Mounting

The sensor can be mounted in a surface or recessed mounting box.

### Detection Pattern



## Electrical Connection

Important : Isolate supply before starting installation procedure.

1. Remove the connector from the green socket on the back of the unit.
2. Connect wiring to connector following the connection diagram.
3. Slide open the door on the front of the unit, and set the switch marked 2 to the on position (TEST MODE).
4. Turn the potentiometers RV1 and RV2 fully clockwise using an insulated tool.
5. Replace the connector into the socket on the back of the unit.
6. Fix unit into position using the screws provided.
7. Reinstate the mains supply. (Light will switch ON).
8. Allow the unit to stabilise for around 20 minutes before testing.
9. Set light level using the photocell procedure.
10. Set the switch marked 2 back to the off position and then slide the door closed.

## Time Delay Settings

Switch Setting	SW3	SW4
4min.	ON	ON
8min.	ON	OFF
16min.	OFF	ON
32min	OFF	OFF

Switch 1            always OFF  
Switch 2            On for test mode

### Recommended Delays

Office	- low traffic 16 minutes
Office	- high traffic 8 minutes
Classroom	- 8 minutes
Corridor	- 8 minutes

## Light Level

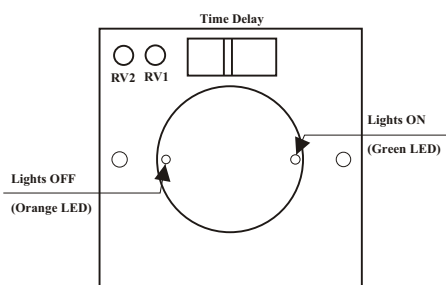
Important: The light level is easiest to set up when the lights are required to switch ON. i.e. When it is dull.

1. Using an insulated adjuster, turn the potentiometers RV1 and RV2 fully anticlockwise. The controlled lights will go OFF in 30 Seconds approx. (To reduce this delay put unit into test mode).
2. Turn RV1 until the green LED glows. This is the level at which the lights will come ON, however they the lights will only come on after 30 seconds as there is a buffer to stop short dull spells making the lights switch ON and OFF.
3. When the lights come ON, turn the OFF control RV2 until the orange LED glows and remains on, then turn the control further the same angle equivalent to about 1 hour on a clock face. This ensures that the OFF level is higher than that created by the lights. The OFF level should always be higher then the ON level.

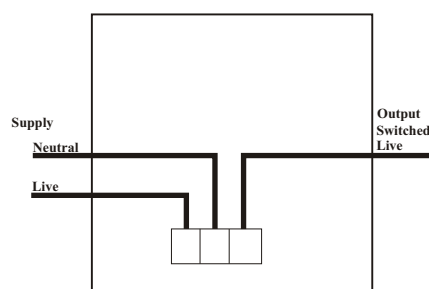
## Fault Finding.

- Q. Lights will not come ON.  
A. Check unit has a supply.
- Q. Lights will not come ON.  
A. Check LED's within the unit, if they are out or flashing reset using photocell procedure.
- Q. Lights switch ON then OFF every 5 seconds.  
A. Unit is in test mode reset switch 2, to off.
- Q. Lights go ON then OFF every 30 seconds.  
A. Setting of potentiometers incorrect, reset using photocell procedure.
- Q. The Orange or Green LED's flash.  
A. Light level is set wrong, reset using photocell procedure.

## Front View



## Wiring Diagram



## Specification

Supply Voltage	240V ac 50 or 60 Hz (other supply voltages available)
Switching Capacity	8amps inductive or resistive up to 240V ac. (HF ballasts max switching of 8).
Time Delays	4, 8, 16, 32 minutes on occupancy. 30 seconds on light level

Order Code SET-SOLO1

## Motion Sensor

Sensor	Passive infrared detector
Field of view	Ceiling mount 360 deg.
Area of detection	Radius = 1.35 x ceiling height. 3.5 metres at typical ceiling height

## Light Sensor

Light Level	50 to 1500 Lux +/-10%
Adjustment	Front of unit.

## Accessories

Surface Box	SET-SB
Recessed Box	SET-RB

## Note

This unit is not suitable for use with Metal Halide lamps.



The SET-SOLO1 is one of a range of energy conservation products available from Setsquare.

This apparatus may be turned on by high powered RF interference and should not be installed near pager aerials or inductive loop equipment. It will recover when the RF ceases.



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