



# Occupancy Detector Switches

## Instruction Leaflet

**RS stock nos. 279-8478 & 279-8591**

### Introduction

A range of passive infrared occupancy detector switches designed to automatically control a variety of electrical appliances. When body heat is detected, the load is switched on. At a preset time after movement has ceased the load is automatically switched off.

### Usage

**RS stock no. 279-8478**

This is designed for lighting applications only. It comes with a built in light detector and an override switch. Pushing the override switch to off permanently switches the lights off. Switching it on will bring the lights on with occupancy. If fluorescent lights are used, a power factor correction capacitor must be fitted. Do not use with more than 6 fluorescent tubes. This unit can be used to power lights and fans for washroom applications, however, the fan must not have an integral overrun timer.

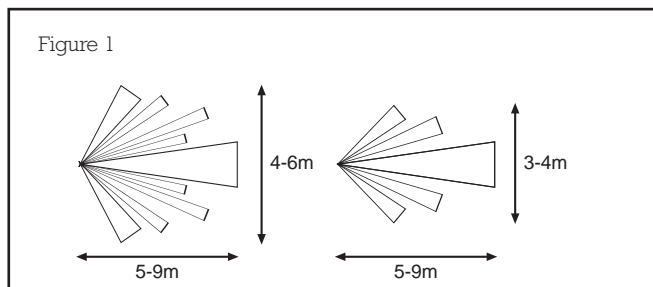
**Note:** These switches have a small residual leakage current when they are off.

**RS stock no. 279-8591**

This is a general purpose switch suitable for use with all types of load. It does not have an override switch or light sensor.

### Positioning

The detection pattern for these switches is shown in figure 1. Avoid subjecting the switches to direct sunlight.



### Setting

Use the thumbwheel marked 'time' to adjust the time delay on both units. The timing runs approximately 30 seconds to 30 minutes.

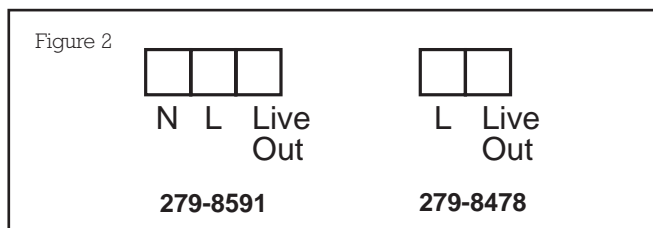
**RS stock no. 279-8478**

This unit has a light sensor that prevents the lighting being turned on when there is enough ambient light. This is adjustable using the thumbwheel marked 'LUX'. Turning this clockwise will bring the lights on in brighter ambient conditions.

### Connection Information

Several switches can be connected in parallel to power the same load.

**Note:** RS stock no. 279-8478 must not be overridden by external switches.



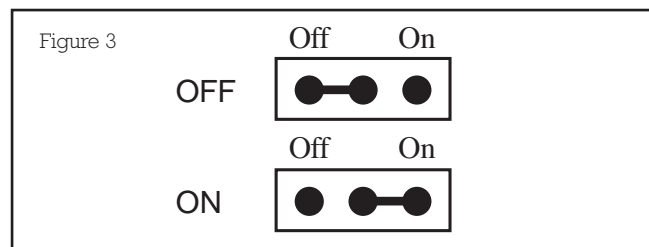
### Commissioning

**RS stock no. 279-8591**

1. Set the timing
2. Switch off the mains supply
3. Connect the unit
4. Screw to the back box
5. Turn the mains supply on
6. To test the occupancy detection, vacate the room and wait for the load to turn off

**RS stock no. 279-8478**

1. Make sure that the internal link is at 'OFF' (see Figure 3)
2. Set the timing and LUX level
3. Switch off the mains supply
4. Turn the override switch off
5. Connect the unit
6. Move the internal link to ON
7. Screw to the back box
8. Turn the mains supply on
9. This unit has an internal battery - it is recommended that the switch is left in the off position for at least 2 hours to refresh the battery
10. Turn the switch on for operation
11. If the lights do not come on check that the LUX level has been set correctly - turn the thumbwheel clockwise if necessary
12. Before changing any settings turn the override switch off and make sure the lights are off, then disconnect the mains and change the settings.



### Electrical ratings

**RS stock no. 279-8591**

Current rating at 250V a.c. \_\_\_\_\_ 16A resistance  
 \_\_\_\_\_ 10A incandescent  
 \_\_\_\_\_ 6A flourescent

**RS stock no. 279-8478**

Current rating at 250V a.c. \_\_\_\_\_ 10A incandescent  
 \_\_\_\_\_ 6A flourescent  
 Operating voltage \_\_\_\_\_ 220-250V, 50Hz

**Note:** These switches should be installed and adjusted by a qualified electrician in accordance with the latest IEE Wiring Regulations.

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