



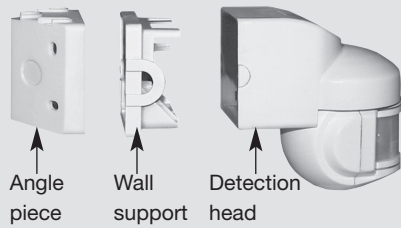
EE 801 : (white)
EE 803 : (black)

Working principle:

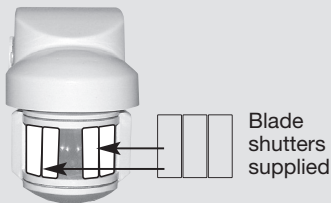
These detectors are sensitive to infrared radiation due to heat released by any moving body. Any heat source can be easily detected (people, vehicles...).

The detector's precision increases as the difference between outside air temperature and that of the moving object increases. The detector will switch on the light connected to it. The light will remain on as long as the device detects movement in its monitored area or as set by the time delay. Its operation can be set to operate night and day or most commonly at night. A built-in light sensitive detector allows the user to set the brightness level required to activate the device. Substantial energy saving can be made since light goes on only for the time required.

Product description



Angle piece Wall support Detection head

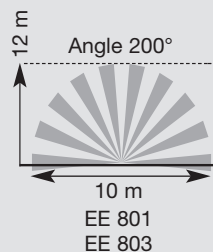


Blade shutters supplied

Dials to set the operating time and brightness level



Detection areas

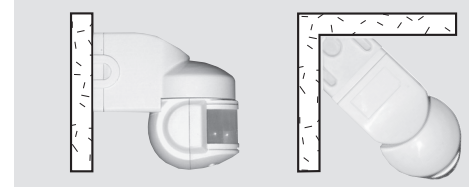


GB User instructions

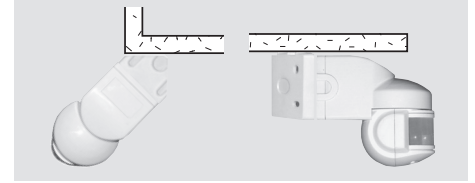
Movement detector

• Types of mounting

- Wall mount on façade or house entrance, or mount in interior angle.



- Mount in outside angle for surveillance of two façades or on ceiling for detection on terraces and corridors.



Installation

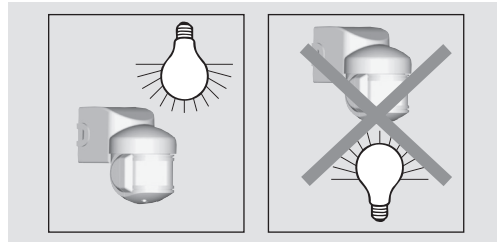
• Where to install your detector?

- **Recommended installation height:** 2.5m



- **Fixed wall mounting**
- **Distance from controlled source**

Light bulbs radiate heat, which can cause unwanted detection when light is switched off.



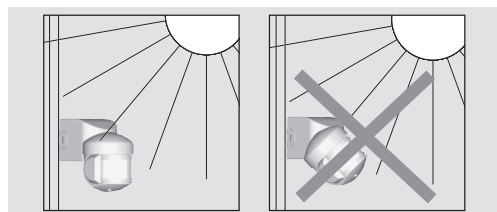
- Favoured detection path

Optimal detection is ensured when the moving body moves across the detection area. Detection is not guaranteed when the body moves directly toward or away from the detector



- Beware of bad weather and sun!

Like any infrared detector, this device is sensitive to sun radiation and bad weather conditions. Do not expose to direct sunrays or rain. Lower temperatures in winter heighten the detector's sensitivity and increase its range. Conversely, its precision and range are reduced in the summer due to lower temperature differences.



- Remove obstacles

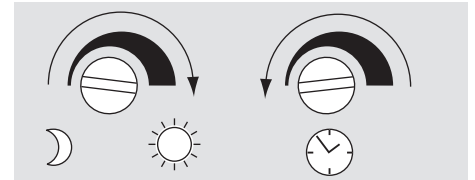
Infrared radiations are stopped by obstacles. Clear any obstacle from the detection area.

Testing and setting:

On power on, the detector switches its circuit on for the time set. After this starting phase, the detector is operational and once this phase ends, the detector is ready for testing. It must then be set for automatic operation.

• Detector test procedure

- **Set the detector in test mode**

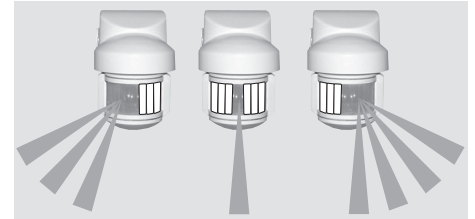


- After these settings, any movement in the detection area will switch lighting on for 5 seconds.

- Direct the swivelling head in horizontal and vertical directions in such a way that the desired detection area is covered.



- Shutters provided can be used to adjust the detection area.



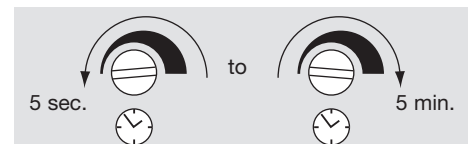
• Setting the Automatic Operation and Brightness Level

For night only operation, turn the potentiometer fully to the left. Turn the potentiometer to the right when day & night operation is desired.



- Setting the operation time

The operation time can be set by adjusting the potentiometer. Minimum time (5 seconds) is set by turning the potentiometer to the left stop. Setting to the right stop provides 5 min operation time.

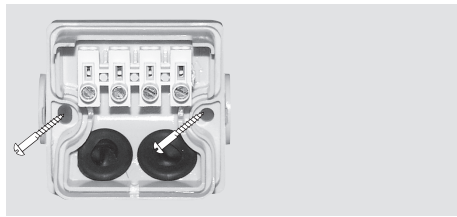


Detector Installation

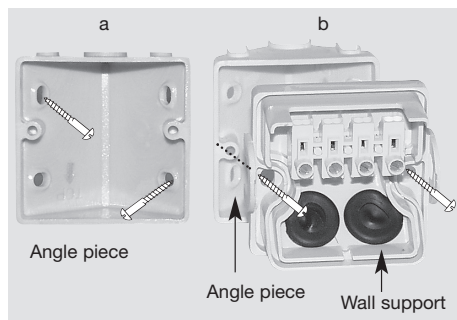
Before connecting the detector, turn off the 230 V power supply of the installation.

1. Fix the wall-mounting base

- Fix the wall base only by 2 screws \varnothing 4 mm.

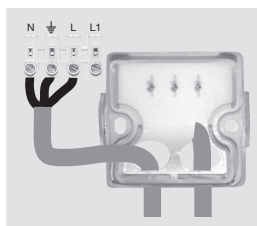


- Fix the angle piece by 2 screws \varnothing 4 mm (a)
- Fixing the wall support base by screwing into angle piece with 2 screws \varnothing 4 mm (b).



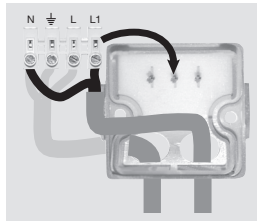
2. Connect the detector

Pull a twin & earth cable (section 1.0 to 1,5 mm²) through the grommet, then connect **N** (black), **L** (red) and \perp (green/yellow - optional) to the connector block.

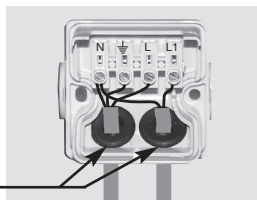


3. Connect the load (lamp)

Pull a twin & earth cable (section 1.0 to 1,5 mm²) through the grommet, then connect **N** wire (black) **L1** wire (red) to the connector block and \perp (green/yellow - optional) to the connector block.



4. Fit connector block into the wall baseplate



Warning:

Make sure that grommets are tight.

5. Simply clip head onto the wall baseplate



TROUBLESHOOTING

Unwanted lamp switch on

Causes

- Permanent heat source is active in the detection area (trees, bushes shook by wind or presence of dogs, cats in the detection area).
- Direct sun radiation onto detector's lens.
- The detector is located over the top of a ventilation grill.

Action

- Limit detector's range by adjusting its inclination or by fitting shuttering blades to the lens, or by lowering sensitivity using the adjustment knob.
- Protect the lens from direct sunrays.
- Move the detector to another location.

The range of the detector is too narrow

Causes

- Detector's installation height is not suitable (too high or too low).
- Sloping ground

Actions

- Modify installation height (2.5m is optimal) (2,5 mètres est optimal).
- Adjust detector's direction.

Moving vehicle or person is not detected

Causes

- Vehicle's motor is not hot enough yet (heat radiation is too weak).
- People move forwards in front of detector.

Actions

- Install the detector in such a way that objects move within the area in transverse direction.

Technical specifications:

Electrical:

- Power supply voltage, frequency: 230 VAC +10%/-15% ~ 50 Hz
- Mandatory protection: MCB 10A - 20A C curve

- Recommended cable: 1-1.5mm²
- Connected Load:
 - Resistive circuit: 8 A 250 Va.c.
 - Incandescent lamps: 1000 W
 - Non compensated fluorescent tubes: 1200 W
 - Compensated fluorescent tubes: 174W (20µF)
 - Halogen lamps (230 V): 1000 W
 - ELV lamps including transformer: 500 VA
- Connection by screw terminals / conductors' section: 1 → 1,5 mm²
- Index of protection: IP55
- Operating temperature: -20 °C → +50 °C
- Storage temperature: -20 °C → +60 °C
- Dimensions:
 - Length (without angle base): 106 mm
 - Width: 70 mm
 - Height: 100 mm

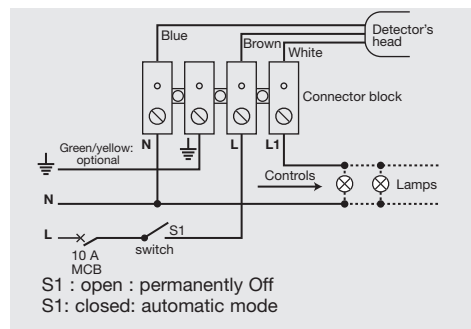
Functional features:

- Detection angle: 200 °
- Front remote detection (at 20 °C) / side detection: 12 m / 10 m
- Setting of detection head: 60 ° vertically, ± 80 ° horizontally
- Setting of light sensitive level: 5 → 2000 Lux
- Setting of operation life: 5 sec. → 5 min.
- Limitation of detection area: blade shutters
- Fixing: angle / ceiling fixing piece.

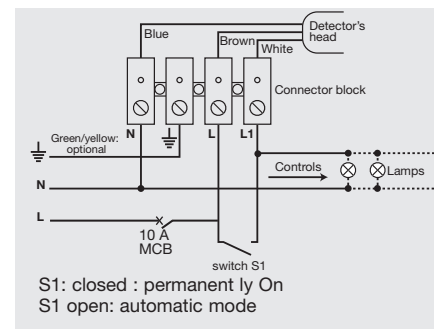
Electric connection:

When connecting a highly inductive load (lamp with multiple ballasts) or with gas-discharge lamps, the use of a contactor is recommended.

Auto/Off operation



Auto/On operation



Operation of 2 detectors in parallel (max: 6 detectors in parallel)

