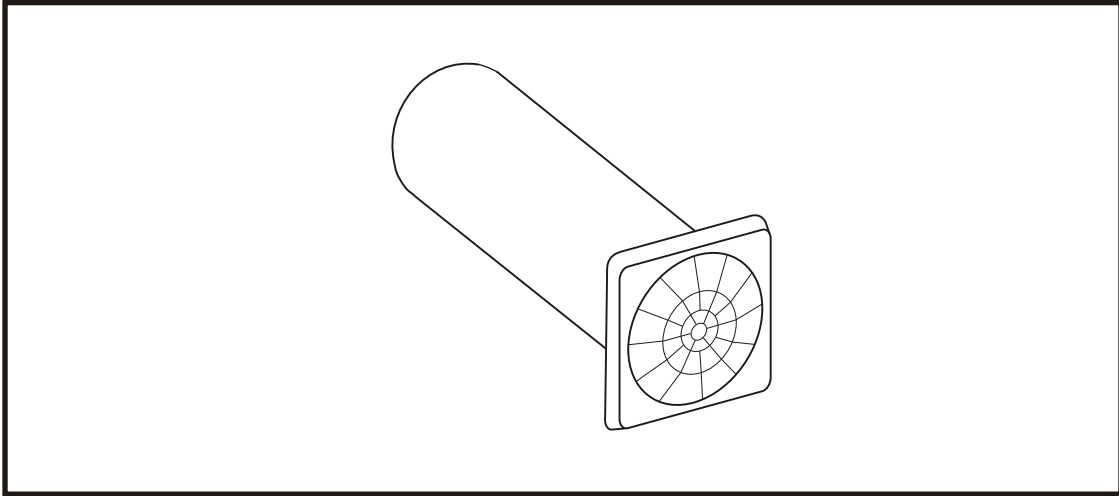


Installation Instructions



These instructions apply to the SET-IRL4. 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 SET-IRL4 is an automatic switching system which operates by sensing movement of infra-red radiation from the human body.

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 behind activity.

The sensor is designed to be recessed into suspended ceilings.

Position the sensor where 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 should be mounted through a 42 - 44 mm diameter hole. The minimum ceiling void is 120 mm.



Warning:-

The potentiometers in this unit will be damaged if forced past their end stops. These potentiometers adjust over an arc of 270 degrees only. It is recommended that a suitable trim tool is used.

Electrical Connection

Important : Isolate supply before starting installation procedure.

1. Fix unit into position.
2. Connect the wiring as shown on the connection diagram.
3. Remove the lens cover from the sensor to allow access to the time delay potentiometer.
4. Ensure the time delay is set at maximum by gently setting VR1 fully clockwise.
5. Reinststate supply to unit. The sensor when powered up will switch ON. Allow 10 Minutes for the unit to stabilise.
7. Using an insulated adjuster, gently set VR1 fully anticlockwise, (TEST MODE) then replace lens cover. Ensure unit switches OFF when there is no movement, and switches ON when there is movement within its detection zone.
8. Set VR1 to the required time delay.

Time Delay Settings

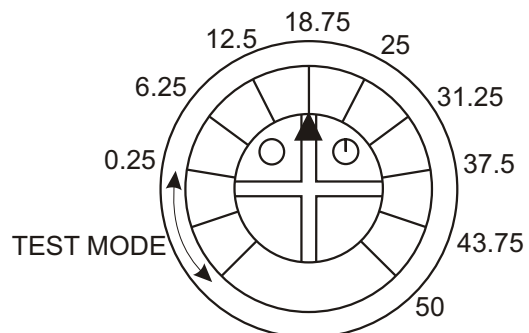
Adjust VR1 gently to give the required time delay.

TEST MODE (10 seconds). Gently set VR1 fully anticlockwise.

Adjust VR1 from this position to give longer time delays. The time delay increases up to 50 minutes when VR1 is set fully clockwise.

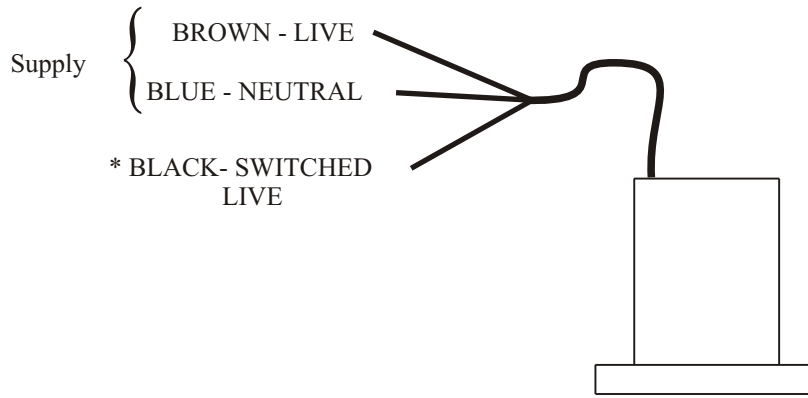
Recommended Delays

Office - Low traffic	16mins
Office - High traffic	8mins
Classroom	8mins

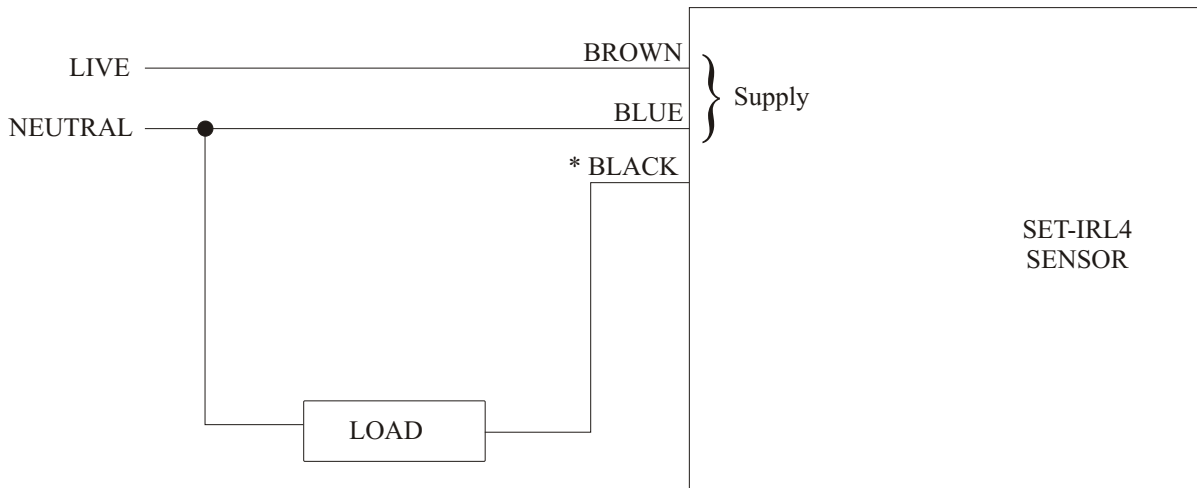


This diagram shows the face of the time delay potentiometer VR1 showing approximate time delays at the tick marks. This diagram shows the time delay set at approximately 18.75 minutes.

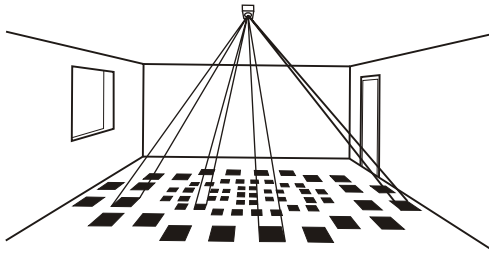
Wiring Diagram



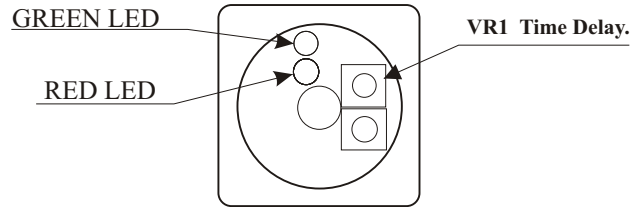
* As per section 514.3 of BS7671:2008 All cores must be identified. As the cores identified (*) below are at line potential they should be marked with a brown coloured sleeve.



Detection Pattern



Detectors should be placed at 5metre intervals to ensure detection patterns overlap.



Warning:-

This potentiometer will be damaged if forced past its end stop. This potentiometer adjust over 270 degrees only. It is recommended that only a suitable trim tool is used.

NOTE:- The Red LED will flash when movement is detected.

The Green LED is not used on the SET-IRL4.

Fault Finding.

- Q. Relay contacts switch OPEN then CLOSED every 10 seconds.
A. Time delay set to TEST MODE.
- Q. Relay contacts switch OFF when I am working but come ON when I move.
A. Reposition sensor or increase time delay.

Specification

Supply Voltage	230V a.c. \pm 10% (other supply voltages available)
Switching Capacity	8amp Inductive or Resistive up to 230V ac. Maximum of 8 HF ballasts.
Time Delays	0.25 to 50 minutes adjustable. Test Mode 10 seconds
Cable Length	2 metres.
Order Code	SET-IRL4

Motion Sensor

Sensor	Passive infra red detector
Field of view	Ceiling mount 360 Deg.
Area of detection	Radius 1.2 x Ceiling height. (Typical radius 3.5Metres at average ceiling height)

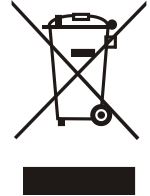
WARNING

This unit contains electronic devices.

Do not perform any high voltage tests on this product or to any equipment connected to this product.

Mains connections can be high voltage tested in accordance with BS 7671:2008, IEE Wiring Regulations 17th edition section 613.3.3.

Electrical and electronic equipment should never be disposed of with general household or commercial waste but collected for their proper treatment and recovery. The crossed out wheely bin symbol is to remind you of the need to dispose of this product at the end of its life in a way that will assist in the recovery, recycling and reuse of many of the materials used in this product. Where possible also recycle the packaging.



WEE/DJ0002ZR

The SET-IRL4 is part 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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