CLIPSAL®

ELECTRICAL ACCESSORIES

Infrascan

Automatic Indoor Light Switches

Setting the future in motion

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Automatic light switches that won't leave you in the dark

Why stumble around in the dark trying to find a light switch, when you could have a switch that finds you?

The Clipsal 751 Series Infrascans are automatic light switches that instantly activate lighting in response to body heat movement through the detection field.

Besides their obvious user convenience, the 751 models can also provide dramatic cost savings in both commercial and domestic environments as lights switch off automatically when not needed.

The 751R also has the advantage of being able to use multiple units to control a single load.

Adjustable sensitivity and time delay

Lights are automatically switched on whenever a person enters the Infrascan's detection field (6x6 metres from sensor head).

The same lights are then turned off after a suitable delay once the area is vacated.

The length of the delay is fully adjustable to a period of between 5 seconds and 20 minutes. The devices retrigger each time movement is detected, resetting the time delay period.

By adjusting the unit's light level sensitivity, you can also control the minimum ambient light level at which the device will activate (from full daylight to almost total darkness), turning lights on only when you need them.

1. Light Level Adjustment

2. Time on Adjustment

Offices

Bathroom & Laundry

Walk-In Robes

Infrascan

Ease of installation

Simply fix and wire the mounting flange, then attach the sensor head to the wall or ceiling with a single screw. With the variety of mounting centres provided by the mounting flange, the 751 models are compatible with a large range of accessories.

When mounted, the 751 model's sensor head is rotatable through 120° allowing easy adjustment of the sensing zone.
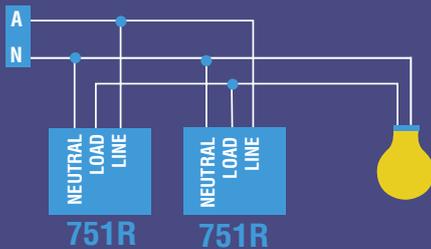
Diagram:
Using two Infrascans, to control lights (751R relay type Infrascan only)

A
N

| NEUTRAL | LOAD | LINE |
| NEUTRAL | LOAD | LINE |

751R   **751R**

751

The 751 features a maximum loading of 2 amps for fluorescent or incandescent lighting making it ideal for use in homes, offices, motels and other areas where irregular occupancy warrants this form of lighting control.

Being a two wire device, the 751 does not require a neutral connection.

751R

A number of 751Rs can be operated in parallel to control the same load, with maximum loading of 10 amps. It is the perfect solution for corridors, lecture theatres and other areas in which a single Infrascan would have insufficient range.

The 751R is a three wire device, and therefore requires a neutral connection to operate.

Feature	Advantage	Benefit
Easy to mount	Simply fix and wire the flange, then attach the sensor head with a single screw	Simple installation, fast fit off
Sensor head is rotatable through 120°	Easy adjustment of sensing zone (6x6 metres)	Simplified commissioning, less time taken
Variety of mounting centres	Compatible with accessories that utilise 60.3mm, 84mm or 50mm mounting centres	Easy fitting for the installer in all situations
"Three wire" device (751R only)	No leakage current	No retrigger problems
"Two wire" device (751 only)	Does not require a neutral connection	Faster installation and less cable needed and suitable for retrofit when no neutral present
751 rated at 2A 751R rated at 10A	Allows usage with a variety of loads (See Note 1 in specifications for more details)	Enables usage in a wide variety of applications
Fully adjustable light sensitivity and time out settings	Enables load to be switched on when ambient light falls below desired level. Time out function means load is not operating unnecessarily	Power savings to the customer in a variety of different installations

step 1.

step 2.

step 3.

Fix mounting flange to ceiling or wall.

Pull wires through mounting flange & attach to terminal block.
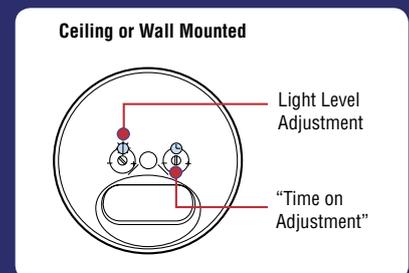
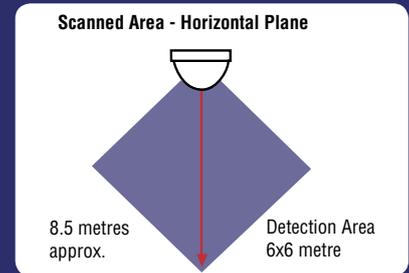Attach sensor head with a single screw and fit number 9 cap.

Specifications

Specifications	751	751R
Wiring Configuration	2 wire	3 wire
Switching Method	Triac	Relay
Operating Voltage Range	192-264V a.c.	
Operating Frequency	50Hz	
Maximum Load Current	2A	10A
Minimum Load	20mA	0mA
Detection Method	Passive infrared detection of thermal radiation	
Compatible Lighting	Incandescent and fluorescent (See Note 1)	
Time Delay	5 sec. to 20min. (nominal), infinitely variable with this range	
Ambient Light Level Adjustment	From full daylight to below 1 lux (darkened room)	
Detection Area	6x6m, 90° from sensor head. Sensor head rotatable through 120° when installed	
Installation Height	2.4m optimum mounting height. Unit may be wall mounted. Other installation heights may result in decreased scanning area.	
Leakage Current in the Off State	Maximum of 2.0mA @ 25°C (See Note 2)	
Operating Temp. Range	0° to + 40°C	
Overall Dimensions	100mm diameter by 57mm high	
Mounting Centres	60.3mm, 84mm and 50mm	
Standard Colour	White Electric	
Terminals	Line, load, 2x loop. Accepts 3 x 2.5mm² cable	Line, load, neutral, loop. Accepts 3 x 2.5mm² cable

Scanned Area - Horizontal Plane

8.5 metres approx. Detection Area 6x6 metre

120° Head Rotation

120°

90° Viewing Angle

90°

2.4m

Scanned Area Vertical Plane

Floor

Ceiling or Wall Mounted

Light Level Adjustment

"Time on Adjustment"
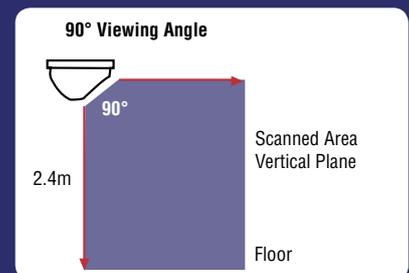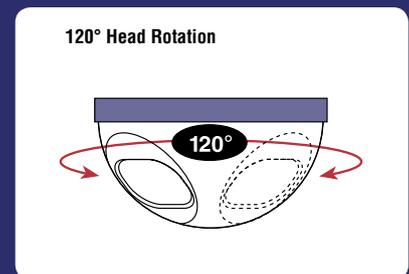
Notes

1. Other loads, including most contactors can be driven. Contact your nearest Clipsal office or representative for advice. For correct operation of the 751, fluorescent loads should be Power Factor corrected.

2. Two wire devices draw their power through the load. This results in current flow through the load even in the off state. Due to advances in technology and design the 751 Infrascan typically draws only 2mA @ 25°C.

Clipsal Infrascans are designed as a lighting control device only. Clipsal does not recommend their use in conjunction with audible alarm systems.

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