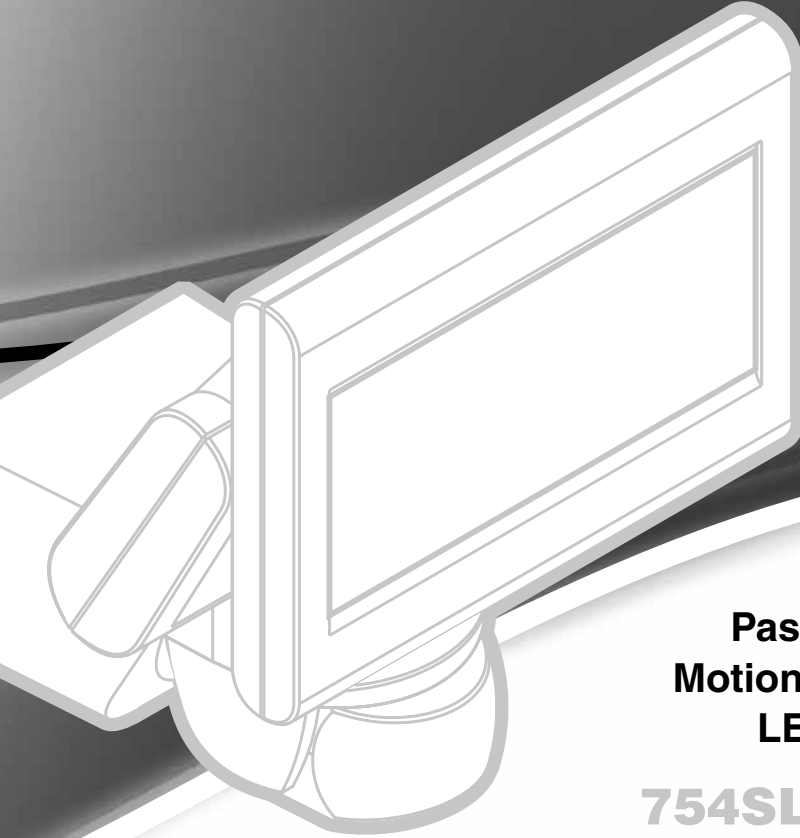


CLIPSAL®

by **Schneider Electric**



**Passive Infrared
Motion Sensor with
LED Floodlight**

754SLR Series



Installation Instructions

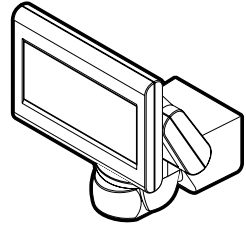
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1.0 Product Range

754SLR Infrascan Passive Infrared Motion Sensor with LED floodlight

Colour options: Black, White Electric



2.0 Principle of Operation

Congratulations on purchasing your new Clipsal Infrascan Passive Infrared Motion Sensor with integrated LED floodlight. You have chosen a high-quality product that has been manufactured, tested and packed with the greatest care. Please familiarise yourself with these instructions before attempting to install the sensor, as prolonged reliable and trouble-free operation will only be ensured if it is fitted properly.

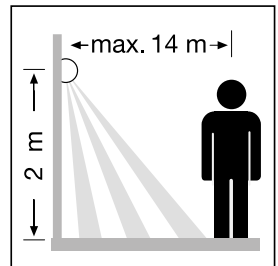
⚠ Safety Warning

Installing the sensor involves work on the mains power supply. This work must therefore be carried out by a licensed electrician, in accordance with applicable national wiring regulations and electrical operating conditions.

This Passive Infrared Motion Sensor switches on the integrated LED floodlight automatically when movement is detected. Additional loads can be activated as well. The unit is equipped with pyro sensors that detect the invisible heat emitted from moving objects (people, animals etc.). The heat detected is electronically converted into a signal that switches on the connected loads. 198 LEDs allow the 754SLR to provide perfect illumination, with an extremely low energy requirement.

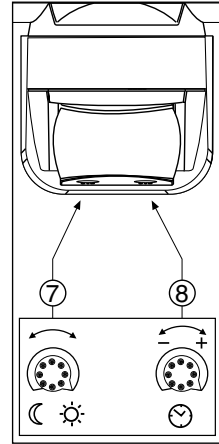
3.0 Field of view

The Infrascan 754SLR has a sensing range of up to 14m at 2m mounting height and a field of view of 120°. The detection zone as well as the floodlight orientation are adjustable.



4.0 System Components and Installation

- ① LED floodlight head in flat design
- ② Wall-mount with plug-in terminal
- ③ Heat sink
- ④ Moving the sensor unit
- ⑤ Sealing plug
- ⑥ Adhesive zone mask foils
- ⑦ Lux level setting
- ⑧ Time setting
- ① Mains connection, concealed wiring
- ② Mains connection, surface wiring



⚠ Warning

The mains lead consists of a three-wire cable.

L = Active

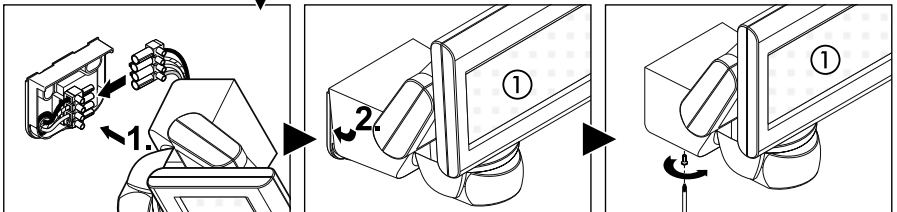
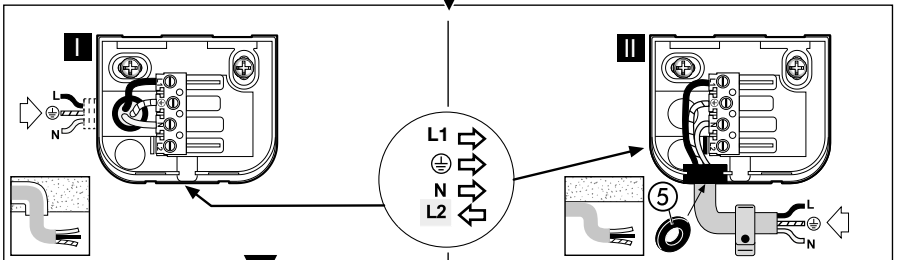
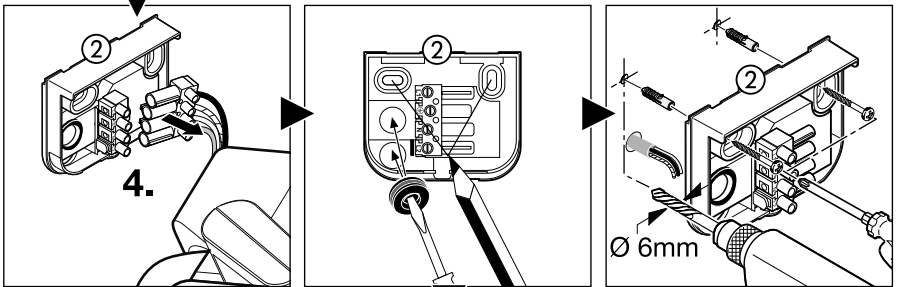
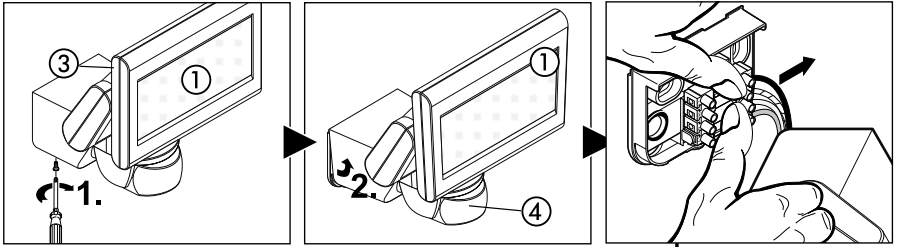
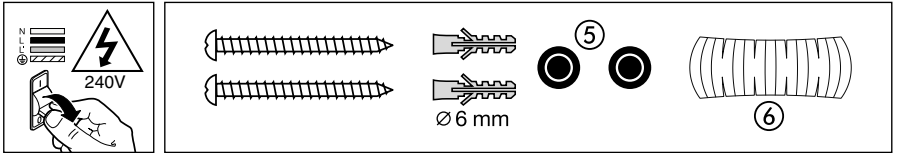
N = Neutral

PE = Earth ⊥

- Do not install the unit on normally flammable surfaces.
- Suitable for indoor and outdoor use.
- The sensor-switched LED floodlight is only intended for wall mounting and not for ceiling mounting.
- The floodlight housing gets warm while it is switched 'ON'. Only adjust the angle of the LED head once it has cooled down.



Do not look into the LED light at short range or for any prolonged period (> 5 min.). You could damage your retina.



Installation, Operation and Maintenance

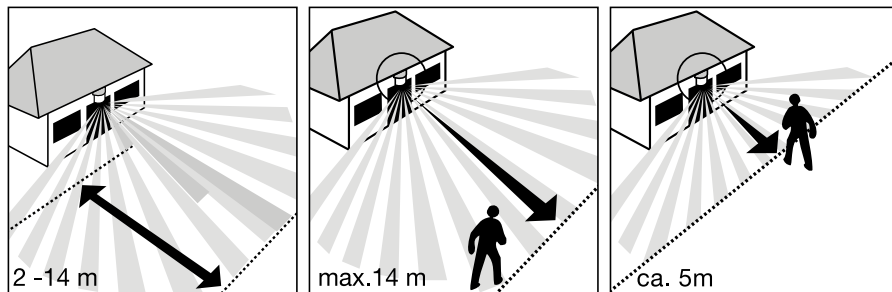
- The site of installation should be at least 50cm away from any other light source as the heat it radiates may activate the system.
- To obtain the specified maximum sensing range of 14m, the sensor should be installed at a height of approx. 2m.
- Install the unit on a firm surface to avoid unintentional triggering.
- It is the installer's responsibility to maintain IP rating of the installed Infrascan to suit the application.
- The sensor does not detect heat radiated from behind obstacles, such as walls or panes of glass. Heat radiation of this type will therefore not activate the light.
- Weather conditions may affect the way the motion detector works. Strong gusts of wind, snow, rain or hail may cause the light to come 'ON' when it is not wanted, because the sensor is unable to distinguish sudden changes of temperature from sources of heat.
- The unit is not suitable for burglar alarm systems as it is not tamper-proof in the manner prescribed for such systems.
- The detector lens may be cleaned with a damp cloth if it gets dirty (please avoid using aggressive cleaning agents).

⚠ Important

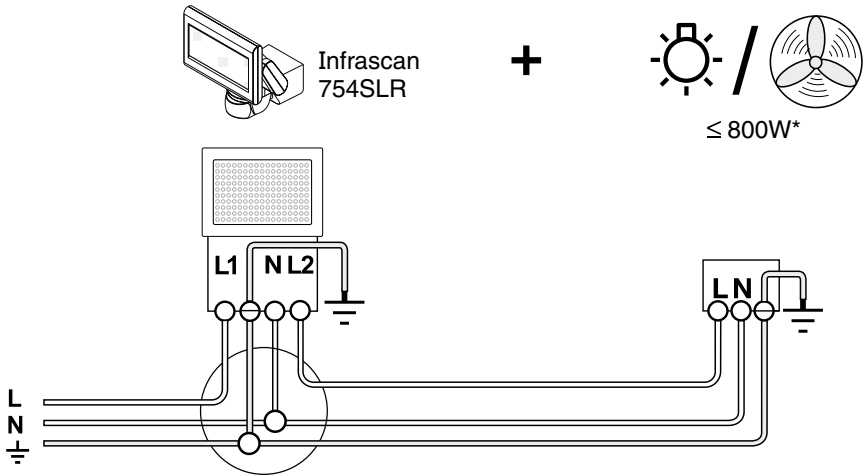
Connecting the conductors to the wrong terminals will produce a short circuit in the unit, or your fuse box, at a later stage when you come to switch the power on. In this case, you must identify the individual cables and re-connect them. A suitable mains switch for switching the light "ON and "OFF" can be installed in the mains lead.

Walking Direction

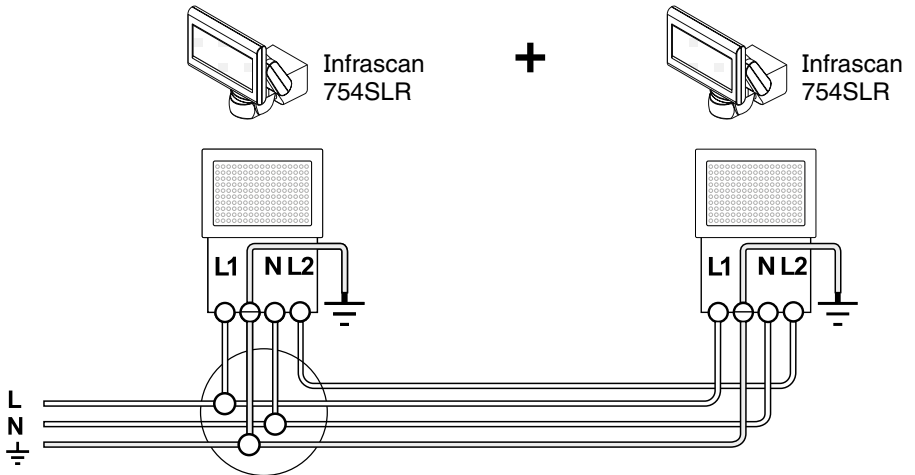
The most reliable way of detecting movement, is to install the sensor so that it points across the direction in which a person would walk, and by ensuring that no obstacles (such as trees, walls etc.) obstruct the line of vision. The sensing range is restricted when you walk straight towards the sensor.



5.0 Wiring Diagram



*For details please refer to the Technical Specifications on page 11.



Terminal description/Terminal block:

	Internal connection	Typical Installation Connection
L1 – Active	Black	Red
N – Neutral	Blue	Black
PE – Earth	Green-yellow	Green-yellow
L2 – Load (Optional Use)	Brown	White

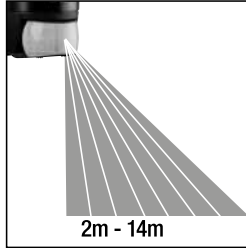
6.0 Functions

6.1 Sensing Range/Detection Zone Adjustment

- (a) The sensing range can be adjusted between 2m - 14m by vertically tilting the sensor unit by up to 90°. The maximum sensing range of 14m can be achieved at a sensor mounting height of 2m.



Sensing range
adjustment



Sensing range

- (b) The orientation of the 120°- field of view can be changed by moving the sensor unit horizontally by up to 90° to the left and 90° to the right (in total 180°).

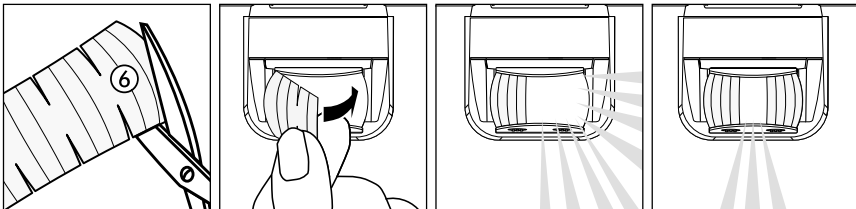


View orientation
adjustment



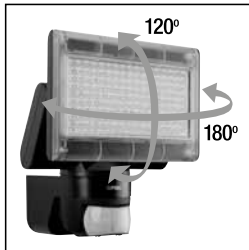
Field of view

- (c) Adhesive zone mask foils can be used to mask-out unwanted views such as next-door properties.

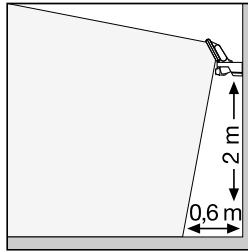


6.2 Adjustment of LED floodlight position

(d) The LED floodlight position can be adjusted to direct the light source as required in the application. It can be adjusted 180° horizontally and 120° vertically.

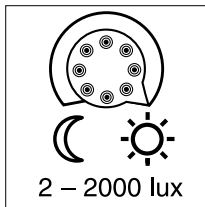


LED Floodlight orientation



6.3 Lux Level Setting

The sensor response threshold can be infinitely varied from 2 – 2000 lux.



(Factory setting: Daylight operation at 2000 lux).

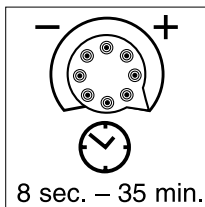
Control dial set to ☀ = daylight operation approx. 2000 lux.

Control dial set to ☾ = twilight operation approx. 2 lux.

To adjust the detection zone in daylight, the control dial must be set to 'daylight operation'.

6.4 Time Setting

The time setting can be infinitely varied from 8 sec. - 35 min.



(Factory setting: 8 sec.).







Control dial set to – = shortest time (8 sec.)
Control dial set to + = longest time (35 min.)

When setting the detection zone, we recommend selecting the shortest time.

7.0 Troubleshooting

Malfunction	Cause	Remedy
Infrascan without power	<ul style="list-style-type: none"> • Fuse faulty, not switched 'ON', break in wiring • Short circuit 	<ul style="list-style-type: none"> • Fit new fuse, switch 'ON' mains switch, check wiring with voltage tester • Check connections
Infrascan will not switch 'ON'	<ul style="list-style-type: none"> • Twilight control set to night-time mode during daytime operation • Mains power switch 'OFF' • Fuse faulty • Detection zone not properly targeted 	<ul style="list-style-type: none"> • Adjust setting • Switch 'ON' • Fit new fuse, check connection if necessary • Re-adjust
Infrascan will not switch 'OFF'	<ul style="list-style-type: none"> • Permanent movement in the detection zone 	<ul style="list-style-type: none"> • Check zone and re-adjust if necessary, or apply shroud
Infrascan keeps switching 'ON' and 'OFF'	<ul style="list-style-type: none"> • Animals moving in the detection zone 	<ul style="list-style-type: none"> • Tilt sensor higher or apply specific shrouds; adjust zone, or apply shrouds
Infrascan switches 'ON' when it should not	<ul style="list-style-type: none"> • Wind is moving trees and bushes in the detection zone • Cars in the street are being detected • Sudden temperature changes due to weather (wind, rain, snow) or air expelled from fans, open windows • Sensor-switched LED floodlight is moving (swaying) due to gusts of wind or heavy rain. 	<ul style="list-style-type: none"> • Change detection zone • Change detection zone • Change detection zone, change site of installation • Mount sensor-switched LED floodlight on a firm surface

8.0 Technical Specifications

Parameter	Value		
Nominal Operating Voltage	240 V~		
Nominal Operating Frequency	50Hz		
Wiring Configuration	3-Wire Design		
Screw Terminals	1 x 2.5mm ²		
LED Floodlight	Output	198 LEDs, approx 12W	
	LED Lifespan	50.000 hours (approx. 30 years when activated for 4.5 hours/day)	
	Light Colour	Cold White (approx. 6700 Kelvin)	
	Projected area	294cm ² (Front view), 160cm ² (Side view)	
	Luminous Flux	720 lumens	
	Adjustment Range	180° horizontal, 120° vertical	
Additional switching capacity		Incandescent Lighting Halogen 240V Lamps	800W
		Fluorescent Lamps* (3AX @ cosφ 0.85) - Conventional Ballast (uncompensated, cosφ < 0.5) - Conventional Ballast (compensated, 45.6μF max) - Electronic Ballast (88μF max, 4 x 58W Ballasts)	400W
		Low Voltage Lighting with Electronic Transformers (88μF maximum capacitive loading) (4 x LED Drivers maximum loading)	400W
		Low Voltage Lighting with Iron-Core Transformers	800VA
		Compact Fluorescent Lamps (4 x CFL lamps maximum loading)	20W x 4 max.
Incompatible Loads		Small Motor Loads	N/A
Sensor Technology	Passive Infrared Sensor		
Field of View	120° with anti-creep guard		
Sensing Range**	14m max. (at 2m mounting height), Sensor unit adjustment: 180° horizontal, 90° vertical		
Time Setting	8 seconds – 35 minutes		
Lux Level Setting	2 – 2000 lux		
Operating Temperature Range	-20 to 40°C		
Operating Humidity Range	10 to 90% R.H.		
International Protection Rating	IP44 (Protection Class I)		
Dimensions (H x W x D)	210mm x 175mm x 180mm (Weight: 1.1kg)		
Safety Compliances	AS/NZS3100, IEC60669-2-1		
EMC Emission Compliance	AS/NZS CISPR15, IEC61000-3-2		
Specifications Typical @ 240V~ 25°C			
No User Serviceable Parts Inside			

*Derate for use with fluorescent loads (cosφ < 0.5, 400W max).

**The Infrascan incorporates temperature-stabilisation technology. However, the sensing range may change depending on the operating temperature.

9.0 Five-Year Warranty

This Clipsal 754SLR Series Infrascan Motion Sensor with LED Floodlight carries a five-year warranty against manufacturing defects.

Warranty Statement

The benefits conferred herein are in addition to, and in no way shall be deemed to derogate, either expressly or by implication, any or all other rights and remedies in respect to the Clipsal by Schneider Electric product, that the consumer has in the location where the product is sold.

The warrantor is Schneider Electric (Australia) Pty Ltd, a member of Schneider Electric Industries SAS, with offices worldwide.

This Clipsal by Schneider Electric product is guaranteed against faulty workmanship and materials for a period of five (5) years from the date of purchase.

Schneider Electric (Australia) Pty Ltd reserves the right, at its discretion, to either repair free of parts and labour charges, replace or offer refund in respect to any article found to be faulty due to materials, parts or workmanship.

This warranty is expressly subject to the Clipsal by Schneider Electric product being installed, wired, tested, operated and used in accordance with the manufacturer's instructions. Any alterations or modifications made to the product without permission of Schneider Electric (Australia) Pty Ltd might void the warranty.

Schneider Electric (Australia) Pty Ltd shall meet all costs of a claim. However, should the product that is the subject of the claim be found to be in good working order, all such costs shall be met by the claimant.

When making a claim, the consumer shall forward the Clipsal by Schneider Electric product to the nearest Clipsal by Schneider Electric office. Provide adequate particulars of the defect within 28 days of the fault occurring. The product should be returned securely packed, complete with details of the date and place of purchase, description of the load and circumstances of the malfunction.

For all warranty enquiries, contact your local Clipsal by Schneider Electric Sales Office. The address and contact number can be found at the website www.clipsal.com/locations

Schneider Electric (Australia) Pty Ltd

Contact us: clipsal.com/feedback

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