



Passive Infrared Motion Sensor Surface-Mount

753SSR-WE

Infrascan®

Life Is On

CLIPSAL
by Schneider Electric



For your safety

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- This product must be installed and serviced by appropriately qualified and/or licenced electrical personnel.
- Isolate the electrical supply before doing any work on the product.
- Ensure that the product has been correctly installed and tested for safe operation before reconnecting the electrical supply.

Failure to follow these instructions will result in death or serious injury.

⚠ CAUTION

EQUIPMENT DAMAGE HAZARD

- Install the product according to instructions in this document.
- Do not use this product for any other purpose than specified in this instruction.
- Dropping the product may damage the sensor. Check sensor operates after being dropped or if physical damage is shown.

Failure to follow these instructions can result in injury or equipment damage.

Load compatibility

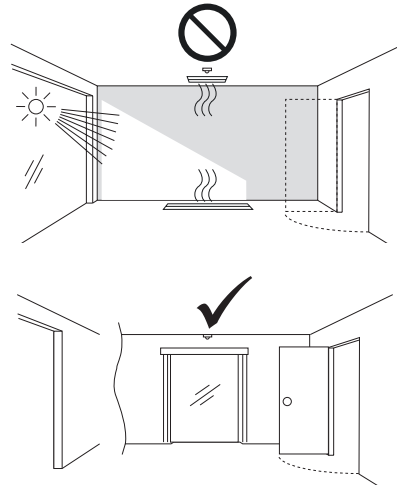
	240 V Incandescent/Halogen	2000 W
	Fluorescent tube	1000 VA
	LED lamp	300 W C ≤ 176 µF



GDE61323

Installation and Operation

- Locate the sensor at least 50 cm away from a light source, as radiant heat may activate sensor.
- It is the installer's responsibility to maintain IP rating. If the rubber seal is damaged, the cable entry openings may need to be sealed with an IP54 rated M16 or M20 double-seal cable gland (not provided).
- A condensation hole is located next to the rubber seal, which can be opened if necessary.
- The sensor does not detect heat from behind structures, such as walls or glass.
- Weather conditions may affect the way the sensor works. Strong gusts of wind, snow, rain or hail may activate the sensor.
- The sensor is not suitable for use with security alarm systems.
- The lens of the sensor may be cleaned with a damp cloth. Avoid using harsh cleaning agents.

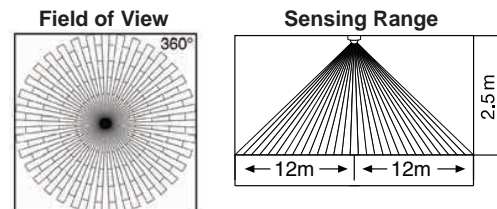


Field of view and sensing range

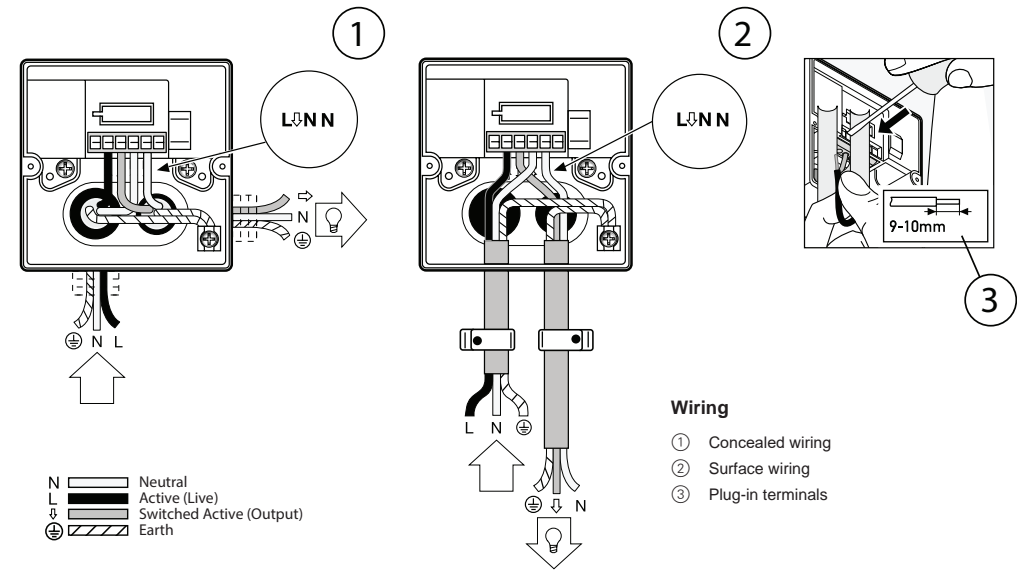
The sensor has a field of view of 360° and a range of 12 m radius, at a mounting height of 2.5 m.

To achieve the maximum sensing range, the sensor needs to be installed in such a way that the movement is tangential rather than radial (towards the sensor).

A zone mask can be used to set the angle of coverage.



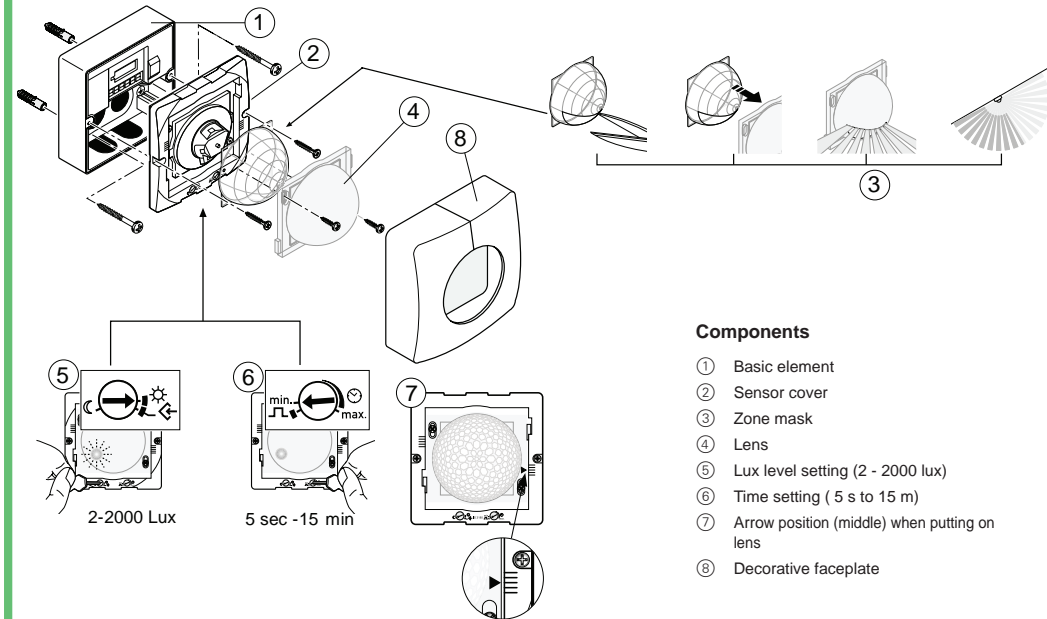
Wiring



Wiring

- 1 Concealed wiring
- 2 Surface wiring
- 3 Plug-in terminals

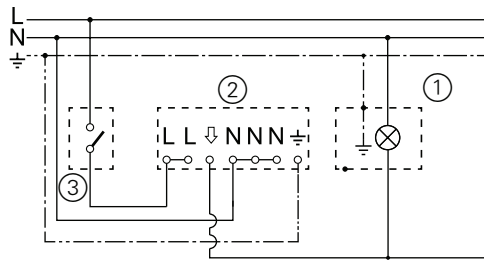
Components



Components

- 1 Basic element
- 2 Sensor cover
- 3 Zone mask
- 4 Lens
- 5 Lux level setting (2 - 2000 lux)
- 6 Time setting (5 s to 15 m)
- 7 Arrow position (middle) when putting on lens
- 8 Decorative faceplate

Wiring diagram



This wiring example shows the switch installed with a single switch. The switch needs to be closed for normal sensor operation.

Legend

- ① Load (see table on front page)
- ② Sensor connection terminals
- ③ Switch

Description of sensor initialisation phase

Initialisation phase is ~50 seconds. During this phase the light will turn ON and the sensor will flash with a red LED. If no movement is detected, the light will turn OFF. The sensor is now in normal operation. The light will be OFF, unless movement is detected which will activate the light.

Note:

- The behaviour of the sensor and the activation of the light in the sensor initialisation phase is particularly relevant for installations with 2-way switches (not illustrated).
- If sensors are connected in parallel (not illustrated), do not to exceed the sensor's maximum load rating (see table on front page).
- Connect all sensors to the same phase.

Functions

Manual Override Switch (as per wiring diagram above)

- Change from normal sensor operation to manual override: Light ON for 4 hours**
Toggle the switch 4 times OFF, ON, OFF, ON (within 0.5 s – 1 s). The manual override is enabled and the light will be ON for 4 hours. Normal sensor operation resumes after 4 hours.
- Change from manual override to normal sensor operation: Movement detection**
Toggle switch 2 times OFF, ON (within 0.5 s – 1 s). Normal sensor mode is enabled and the light will be activated after movement detection for the selected time period (5 s – 15 m).
- Deactivation of sensor operation: Light permanently OFF**
To switch the light permanently OFF, switch OFF the wall-switch.
Note: If the switch is OFF for longer than 5 s the sensor initialisation-phase will activate as soon as the switch is closed again.

Lux level setting

Only set lux levels (2-2000 lux) after mains power has been connected, and housing closed with lens in place. The lux setting option is behind the decorative faceplate.

Turn control knob fully anticlockwise to select night-time operation at ~2 lux. Turn control fully clockwise to select **Teach mode**. Just before this position the sensor is in daylight mode at ~1000 lux.

Note: The default mode of the sensor is daylight.

Teach mode

At the required sensor activation level set the control to . After 10 seconds, the value of the ambient brightness is saved.

Dazzle guard

The sensor is equipped with an integrated dazzle guard. If blinded by extraneous light, this puts the sensor into a brightness-related evaluation mode for 60 seconds.

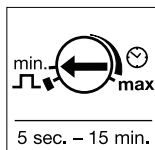
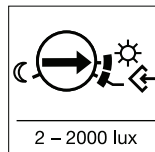
Time Setting

Only select the time setting after mains power has been connected, the housing has been closed and the lens is in place. The time setting option is behind the decorative faceplate.

The designated light ON time can be varied continuously from approximately 5 seconds to a maximum of a 15 minutes. Default setting is ~5s. Any movement sensed before this time elapses will restart the timer.

Pulse function

The Pulse function activates the output for 2 sec. (e.g. for staircase lighting).



Troubleshooting

Problem	Cause	Remedy	
Sensor without power	Circuit breaker tripped	Reset circuit breaker	
	Not switched ON	Turn ON power switch	
	Break in wiring	Check wiring with voltage tester	
	Short circuit	Check connections	
Sensor will not switch ON	Twilight control set to night-time mode during day-time operation	Reset	
	Bulb faulty	Change bulb	
	Power switch OFF	Switch ON	
	Circuit breaker tripped	Reset circuit breaker	
	Detection zone not properly targeted	Readjust zone mask	
	Sensor will not switch OFF	Continuous movement in detection zone	Check zone and adjust
		Light being operated in detection zone is causing sensor to respond as a result of change in temperature	Change zone or mask
Light being operated is in manual override mode (LED ON)		Deactivate manual override	
Sensor keeps switching ON/OFF	Lamp being operated in detection zone	Change zone or mask, or increase distance	
	Animals moving in detection zone	Change zone or mask	
Sensor responds unexpectedly	Wind in trees and bushes in detection zone	Change detection zone	
	Vehicles in the street are being detected		
	Sunlight is falling on to the lens	Mount sensor in a sheltered place or change detection zone	
	Sudden temperature changes (air flow, wind etc)	Change detection zone or change installation location	
Change in sensors range	Different ambient temperatures	Use mask to accurately define detection zone	
LED flashing rapidly (5 x per s)	Load connected is too high	Reduce load or use contactor	

Technical Data

Note: See product datasheet for full specifications. Specifications typical at 25 °C

Operating voltage	220–240 V a.c., 50 Hz
Max load rating	10 A
Design	3-wire
Terminals	1 x 2.5 mm ² max
Field of view	360°
Sensing range	12 m radius
Sensor technology	Passive infrared sensor with 11 detection levels & 1416 switching zones
Time Setting	5 seconds to 15 minutes
	Pulse mode approx. 2 seconds
Lux Level Setting	2 - 2000 lux
Manual override	ON: 4 hours (activated by external light switch)
Dimensions	65 mm x 95 mm x 95 mm
Compliance	AS/NZS 3100
	AS/NZS 60669.2.1
EMC Emission	AS/NZS CISPR15
	IEC61000-3-2
Environmental rating	IP54
Operating temperature	-20 to 50° C
Operating humidity	10%–90% RH
No user serviceable parts inside	

Customer care

II CLIPSAL
by Schneider Electric

We warrant this product for 3 years, for details visit:
<https://www.schneider-electric.com.au/en/about-us/legal/terms-and-conditions.jsp>

Schneider Electric (Australia) Pty Ltd

33-37 Port Wakefield Road, Gepps Cross SA 5094

Call Customer Care: 13 73 28

Email: customercare.au@se.com

www.schneider-electric.com.au

Schneider Electric reserves the right to change specifications, modify designs and discontinue items without incurring obligation and whilst every effort is made to ensure that descriptions, specifications and other information in this instruction are correct, no warranty is given in respect thereof and the company shall not be liable for any error therein.

© Schneider Electric 2020

This material is copyright under Australian and international laws. Except as permitted under the relevant law, no part of this work may be reproduced by any process without prior written permission of and acknowledgment to Schneider Electric.