

Product Information Sheet

COMMISSION DELEGATED REGULATION (EU) 2019/2015 with regard to energy labelling of light sources

Supplier's name or trade mark: Source

Supplier's address: SGD Limited, Unit 7/8 Ashbourne Business Centre, Ballybin Road, Ashbourne, Co. Meath. A84 YP58. Ireland.

Model identifier: S9WLED WH

Type of light source:

Lighting technology used:	LED	Non-directional or directional:	NDLS
Light source cap-type (or other electric interface)	SMD		
Mains or non-mains:	NMLS	Connected light source (CLS):	No
Colour-tuneable light source:	No	Envelope:	-
High luminance light source:	No		
Anti-glare shield:	No	Dimmable:	No

Product parameters

Parameter	Value	Parameter	Value
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General product parameters:

Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	9	Energy efficiency class	F
Useful luminous flux (ϕ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	900 in Wide cone (120°)	Correlated colour temperature, rounded to the nearest 100 K, or the range of correlated colour temperatures, rounded to the nearest 100 K, that can be set	4 000
On-mode power (P_{on}), expressed in W	9,0	Standby power (P_{sb}), expressed in W and rounded to the second decimal	-
Networked standby power (P_{net}) for CLS, expressed in W and rounded to the second decimal	-	Colour rendering index, rounded to the nearest integer, or the range of CRI-values that can be set	86
Outer dimensions	Height	Spectral power distribution in the	See image in last page
	Width		

without separate control gear, lighting control parts and non-lighting control parts, if any (millimetre)	Depth	90	range 250 nm to 800 nm, at full-load	
Claim of equivalent power ^(a)		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,373 0,369
Parameters for LED and OLED light sources:				
R9 colour rendering index value		26	Survival factor	1,00
the lumen maintenance factor		-		

(a) : not applicable;

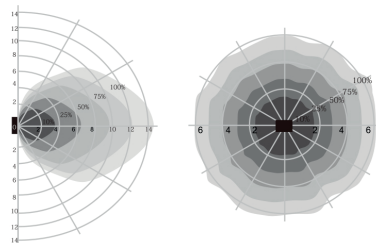
(b) : not applicable;

When set to Disable, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light levels.

Specifications

Operation Voltage 220-240Vac, 50Hz
Rated Load 400W(Inductive), 800W (Resistive)
HF System 5.8GHz±75MHz, ISM wave band
Transmitting power <0.5W
Power Consumption <0.5W(Standby)
Detection zone Max(D x H): 12m xx 6m
Detection Angle 150° (wall installation), 360° (ceiling installation)
Detection Sensitivity 10% / 20% /50% / 75% /100%
Daylight Sensor 2lux/10lux/25lux/50lux/Disable
Hold Time 5s/30s/90s/3min/20min/30min
Mounting Height 6m Max
Operating Temperature: -20~60°C
Motion Detection 0.5~3m/s
IP Rating: IP65

DETECTION PATTERN



Wall mounting pattern (Unit: m) Suggested installation height: 1.5m
 Ceiling mounting pattern (Unit: m) Suggested installation height: 3m



Installation Manual

S9WLED, S9WLED EM-WH, S9WLED SENS-WH, S9WLEDEMSSENS-WH

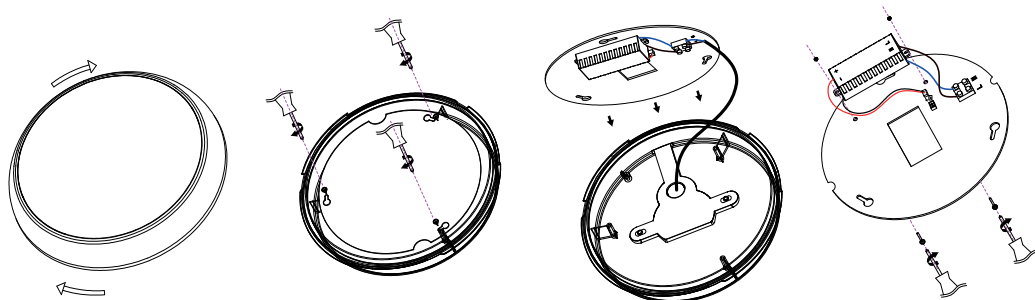


Question	Cause	Solution
The load will not illuminate	<ul style="list-style-type: none"> Incorrect daylight sensor setting selected Load has failed Power is switched off 	<ul style="list-style-type: none"> Adjust setting Replace load Switch on
The load is permanently illuminated	<ul style="list-style-type: none"> Continuous movement in the detection area The lamp (containing sensor) is installed in an area too close to reflective surfaces ie metal, glass or concrete walls 	<ul style="list-style-type: none"> Check detection area setting Make sure installation area is suitable with at least 30CM space between lamp and surrounding reflective surfaces Reduce sensitivity (detection area)
The load will not illuminate despite movement	<ul style="list-style-type: none"> Speed of moving object is not in the speed range of 0.5-3m/s or the detection radius is too small 	<ul style="list-style-type: none"> Check detection area setting

Product end of life instruction.

This Lighting product is in the scope of EU 2019/2020 directive on Waste Electrical and Electronic Equipment (WEEE). This product must be disposed of according to the legislation. This document is intended for use by end of life recyclers or treatment facilities. It provides the basic information to assure an appropriate end of life treatment for the components and materials of the product. Please follow pictured diagram showing how to dismantle the product into different components which should be disposed of correctly. These components consist of plastic, metal and electronic materials. It is the responsibility of the end user to dispose of this product correctly. www.weeeireland.ie or contact your local council for further information.

Disassembly Diagram



1. Rotate Diffuser Off fitting 2. Unscrew the back plate 3. Lift back plate from fitting 4. Release driver from fitting

For more information contact:



Unit 7/8 Ashbourne Business Centre, Ballybin Road, Ashbourne, Co. Meath, Ireland, A84 YP58,
Phone: 00353 1 835 7447
 Unit 32 Junction One Business Park, Valley Road, Birkenhead, Merseyside, UK, CH41 7ED,
UK Ph: 0330 551 7000
Website: www.sgd.ie



General guidelines for installation

This product should be installed by a qualified electrician and in accordance with the current building and IEE wiring regulations. Switch off the mains before commencing installation and remove the appropriate circuit fuse or lock off MCB.

The product is designed for permanent connection to fixed wiring which must be a suitable circuit (protected by the appropriate MCB or fuse).

This product is suitable for installation on surfaces with normal flammability e.g. wood, plasterboard and masonry. It is not suitable for use on highly flammable surfaces (e.g. polystyrene, textiles).

Before making the fixing hole(s), check that there are no obstructions hidden beneath the mounting surface, such as pipes or cables.

LED chips can be susceptible to damage by gases, vapours, etc. emitted by other materials, especially rubber, causing a severe reduction in light output.

Do not introduce any parts such as alternative grommets etc., to the inside of this fitting other than the ones provided. Doing so, and any damage caused thereby, may invalidate the warranty.

Warranty:

This unit carries a 3-year warranty from the date of purchase, providing it has been installed correctly and not modified in any way. Should a fault occur please contact the original place of purchase.

Please note: The emergency pack and battery is warranted for a period of 12-months and is designed for use in applications where the maximum ambient temperature does not exceed 25°C.

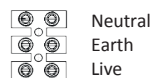
Installation:

- Hold the base of the fitting and gently turn the diffuser and decorative trim anti-clockwise and lift off.
- Loosen the 3 Screws holding the geartray into place.
- Turn geartray anti-clockwise, then lift from base.
- Drill appropriately sized holes through the stand offs in the base of the polycarbonate base.
- Using the base of your fitting as a template, mark the position of your fixing holes on your mounting surface. Prepare holes as appropriate to your fixings.
- Pierce the cable grommet in the base of your fitting, making a hole just large enough to make a tight fit around the incoming mains cable. Carefully thread cable through grommet.
- Secure the fitting in place. Note: If protection against ingress of moisture is required, the heads of screws must be covered with a silicone or similar sealant.
- Refer to the wiring Instruction opposite.
- If installing a microwave sensor version set dip switches as shown on the last page
- Introduce geartray to the 3 x securing screws of the base, turn clockwise and tighten.
- Add diffuser and decorative trim to the fittings and turn clockwise until it is held securely.
- Restore Power.

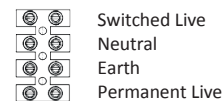
Wiring instructions for all Non-Emergency units

- Connect incoming Earth cable to Earth terminal on connector block.
- Connect incoming Neutral cable to Neutral terminal on connector block.
- Connect incoming Live / Switched Live cable to terminal marked "Live" on the mains terminal block.

All Non-Emergency Units



All Emergency units



Wiring Instructions for all units equipped with Emergency Function

- Connect incoming earth cable to earth terminal on connector block
- Connect incoming neutral cable to neutral terminal on connector block
- For the emergency unit to work correctly, please ensure that an uninterrupted permanent live feed is present and is connected directly to the 'Permanent Live' terminal of the mains terminal block. Please ensure there are no switches, PIRs etc within the permanent live feed, constant switching of the emergency pack could result in premature failure of the battery.
- Connect incoming switched live cable to terminal marked 'Switched Live'
- Note: if there is no switch live feed and the unit has a microwave sensor, simply bridge across from the 'Permanent Live' to the 'Switch Live' on the mains terminal block**
- There should be a loose flying lead connected to the battery. This needs to be attached to the empty socket found on the emergency control unit.
- Following power up the green LED indicator should illuminate to indicate charging. If power to the unit is disrupted or isolated, the indicating green LED will switch off, triggering the emergency LEDs to illuminate.
- Please allow 24 hours' charge before first emergency test.

End of Life Disposal

The light source of this unit is not replaceable; when the light source reaches its end of life the whole fitting should be replaced.

Disposal of Electronic Equipment WEEE Directive 2002/96/EC

This product falls within the scope of the Waste Electrical/Electronic Directive (WEEE) which means the product should not be disposed of as normal household waste. Ensure that this fitting is disposed of in accordance with WEEE directive. Contact the Council/Waste Dept, Local Amenity Site or Environment Agency for further information. RoHS - All components and materials used in this product are RoHS 2002/95/EC compliant

Microwave Motion Sensor

General Guidelines for Installation

- The sensor should be installed by a qualified electrician. Ensure that power is switched off before installing or servicing the product.
- The sensor should not be modified in any way. Any modifications made for this product will immediately invalidate any warranties issued. SGD does not accept responsibility for any consequences resulting from unauthorized modification of the product.
- The sensor should be connected to a stable power supply of 220-240Vac 50Hz/60Hz.
- Microwaves cannot pass through metal or brick walls if thicker than 20cm. They will pass through thinner walls but there will be some attenuation.
- Installation inside a glass or plastic housing will result in a reduction of detection sensitivity. Expect a reduction of approximately 20% for every 3mm of thickness.

Installation & wiring

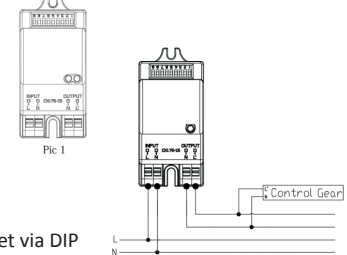
The sensor has 4-position terminal block as Pic 1:

L(Phase) N(Neutral) L(Switched phase/ control)

The sensor is designed for installation at 3-12m in height.

Features

- Automatic switching based on motion and light level.
- Zero-crossing point operation helps protect the sensor against in-rush current
- Super Compact size makes it suitable to fit within most luminaires.
- 4-pole press-in terminal (L, N, N, L'), easy assembly.
- Detection area. time delay and daylight threshold can be precisely set via DIP switch.
- Wide detection area, range up to 12m in diameter.



Settings

Detection area, hold time and daylight sensor can be set by using DIP switches on the sensor. Note that reducing the detection area will also reduce the sensitivity.

1. Detection area

- I: up to 100%
- II: up to 75%
- III: up to 50%
- IV: up to 25%
- V: up to 10%

		1	2	3	
ON	I	ON	ON	ON	100%
	II	-	ON	ON	75%
	III	ON	-	ON	50%
	IV	-	-	ON	25%
	V	-	-	-	10%

2. Hold Time

Refers to the time period the lamp Remains at 100% illumination after no motion is detected

- I: 5s
- II: 30s
- III: 90s
- IV: 3 mins
- V: 20mins

		4	5	6	
ON	I	ON	ON	ON	5s
	II	-	ON	ON	30s
	III	ON	-	ON	90s
	IV	-	-	ON	3min
	V	ON	ON	-	20min
	VI	-	-	-	30min

3. Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold. The settings are as follows:

- I: 2lux, darkness operation only
- II: 10lux, darkness operation only
- III: 25lux, twilight operation
- IV: 50lux, twilight operation
- V: Disable

		7	8	9	
ON	I	ON	ON	ON	2lux
	II	ON	ON	-	10lux
	III	ON	-	-	25lux
	IV	ON	-	-	50lux
	V	-	-	-	Disable

When set to Disable, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light levels.

Spectrum Test Report

Sample : S9WLED-WH
Sample No. : 260
Manufacturer : SGD LIMITED

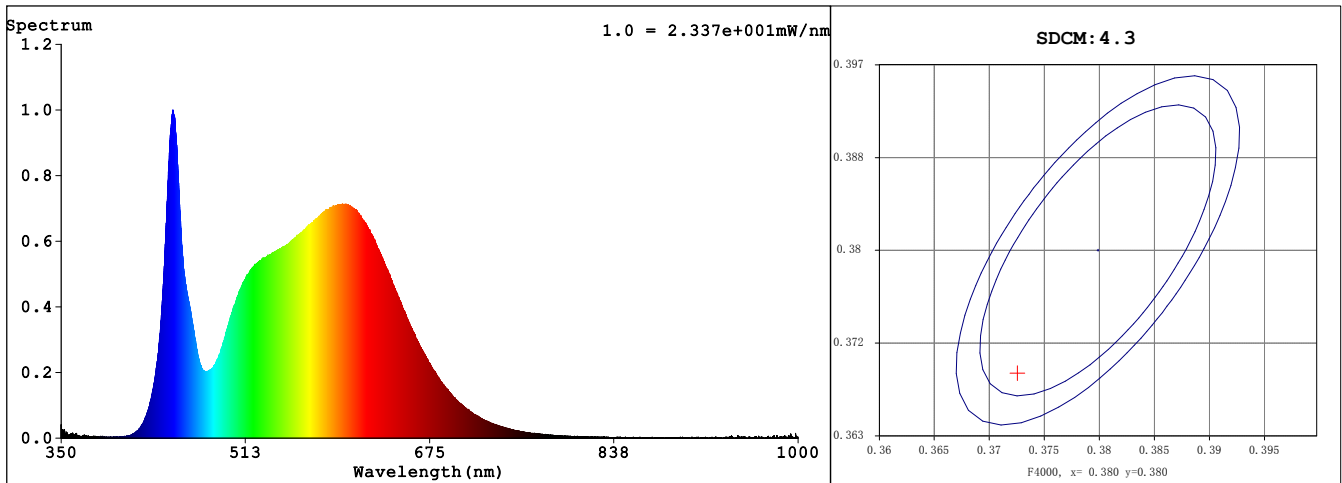
Date : 2021-12-22 21:13:35
Sam. Status :
Instrument : HAAS-2000

Test Condition

Temperature : 25.3Deg
WL Range : 350nm-1000nm
Test Mode : Fast Test

RH : 65.0%
IP : 44365 (68%)
T : 500 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3727$ $y = 0.3689$ / $u' = 0.2231$ $v' = 0.4969$ ($duv = -1.40e-03$)

CCT= 4163K Prcp WL: $L_d = 579.3\text{nm}$ Purity=22.5%

Peak WL: $L_p = 449\text{nm}$ FWHM: =18.2nm Ratio:R=18.4% G=77.9% B=3.7%

Render Index: $R_a = 86.0$

R1 =86 R2 =90 R3 =93 R4 =87 R5 =85 R6 =86 R7 =89
R8 =72 R9 =26 R10=76 R11=87 R12=65 R13=87 R14=96 R15=81

Photometric & Radiometric Parameters

Flux = 995.42 lm Eff. : 125.86 lm/W Fe = 3.1378 W

Electrical parameters

V = 230.2 V I = 0.04864 A P = 7.909 W PF = 0.7064 F=49.99 Hz



EU DECLARATION OF CONFORMITY

Manufacturers Name: Solas Geal Distribution
Unit 7/8 Ashbourne Business Centre, Ballybin Road, Ashbourne, Co. Meath, A84 YP58.

Declaration Number:
079-S9WLD-WH,079-S9WLED-EM-WH,079-S9WLEDSSENS-WH

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Products:
LED IP65 Ceiling Lights 9watt 900Lumens

Model Numbers:
S9WLED-WH, S9WLED-EM-WH, S9WLEDSSENS-WH

The product/model of the declaration described above is in conformity with the relevant
Community harmonisation legislation:

Low Voltage Directive (2014/35/EU)
EMC (2014/30/EU)

The product/model of the declaration described above is in conformity with the standards
and technical specifications listed below:

EN55015:2013+A1:2015, EN61547:2009, EN61000-3-2:2014, EN6100-3-3:2013, EN60598-2-
1989, EN60598-1:2015+A1:2018, EN62471:2008, EN62493:2015,
EN62031:2008+A1:2013+A2:2015, EN61347-1:2015, EN61347-2-13:2014+A1:2017.



Signed:

Date:

Place of Issue: Republic of Ireland

