

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: S16WLED 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	16	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°)	1 600 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	16,0	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	84
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	82	range 250 nm to 800 nm, at full-load	
Claim of equivalent power ^(a)		-	If yes, equivalent power (W)	-
			Chromaticity coordinates (x and y)	0,383 0,379
Parameters for LED and OLED light sources:				
R9 colour rendering index value		17	Survival factor	1,00
the lumen maintenance factor		-		

(a) : not applicable;

(b) : not applicable;

Installation & Maintenance

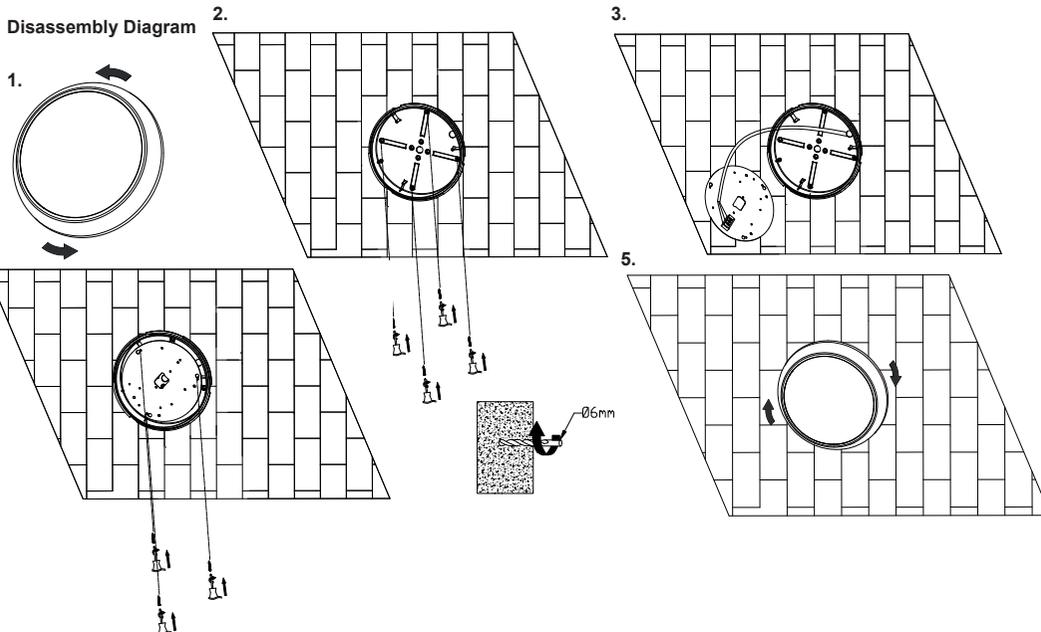
S16WLED-WH, S16WCCT-WH, S16W EME CCT, S16W SEN WH CCT, S16W EM SENS CCT



Question	Cause	Remedy
The load will not illuminate	Incorrect daylight sensor setting selected.	Adjust setting.
	Load has failed.	Replace load.
	Power is switched off.	Switch on.
The load is permanently illuminated.	Continuous movement in the detection area.	Check detection area setting.
	The lamp (containing sensor) is installed in an area too close to reflective surfaces, i.e. metal, glass or concrete walls.	1, Make sure installation area suitable with at least 30cm space between lamp and surrounding reflective surfaces. 2, Reduce sensitivity (detection area).
The load will not illuminate despite movement.	Speed of moving object is not in the range of 0.5-3m/s or the detection radius is too small.	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 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 on the back of this manual showing how to dismantle the product into different components which should be disposed correctly. These components would consist of plastic, metal and electronic materials. It is the responsibility of the end user to dispose of this product correctly. www.weeireland.ie or contact your local council for further information.



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



Important Information

If you do not feel fully confident when dealing with electrical procedures, seek the advice of a qualified electrician. This product must be installed in accordance with the current building and IEE wiring regulations.

Switch off the mains before commencing installation. These products are designed for connection to a 240V 50Hz supply. Any broken or damaged parts should be replaced as soon as possible. We will not accept responsibility for any claims arising from a poor installation. This product is suitable for outdoor use IP65.

Please note emergency packs/batteries carry a 12 month warranty. LEDs are an inductive load and may have higher inrush currents, it may be necessary to update your MCBs to compensate.

Specification Standard Version

Power Supply	240V 50Hz
Operating Temp	0°C-+30°C
IP Rating	IP65
Colour Temp	4000k
Multi Wattage	9w, 12w, 16w
Lumens	954lm, 1236lm, 1600lm
CRI	Ra80
Life Time	50000H

Specification CCT Version

Power Supply	240V 50Hz
Operating Temp	0°C-+30°C
IP Rating	IP65
Colour Temp	3000k, 4000k, 6000k
Multi Wattage	9w, 12w, 16w
Lumens	954lm, 1236lm, 1600lm
CRI	Ra80
Life Time	50000H

- Loosen but do not remove the three LED gear tray supporting screws, rotate the tray and allow it to hang on the support strap.
- Pass supply wires through grommet into the base section, taking care to ensure they are not trapped between the fitting and mounting surface.
- Fix base section to the wall or ceiling. Use adequate fixings with regard to type of surface being fixed to.

FIG 1 - Wiring instructions for non-emergency units.

- Connect incoming neutral cable (blue wire) to the neutral terminal on connector block.
- Connect incoming live cable (brown wire) to the live terminal on the connector block.

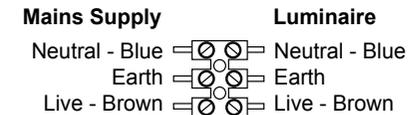
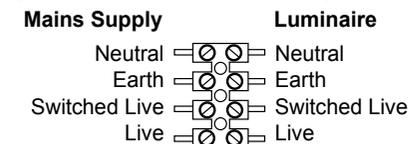
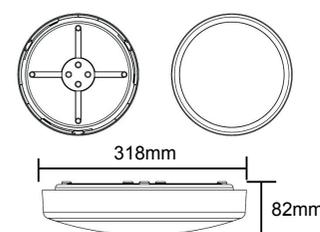


FIG 2 - Wiring Instructions for emergency units

- Connect incoming neutral cable (blue wire) to the neutral terminal on connector block.
- Connect incoming live cable (brown wire) to the switch live terminal on the connector block.
- Connect incoming permanent live cable (black wire) to the permanent terminal on the connector block.
- Charge for 24 hours.
- You must complete a FULL discharge and then a further 24 hour recharge prior to testing & full operation.

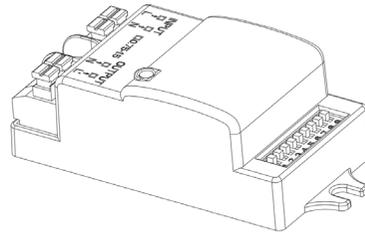


MICROWAVE MOTION SENSOR FEATURES

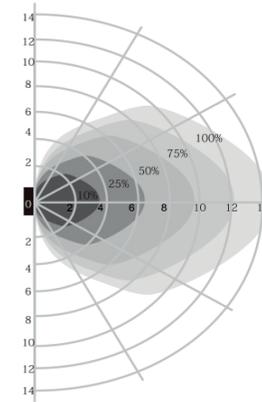
Automatic switching based on motion and light level.
 Zero-crossing point operation helps protect the sensor against in-rush current.
 Super Compact size makes it suitable to fix within most luminaires.
 4-pole press-in terminal (L, N, N, L'), easy assembly.
 Detection area, time delay and daylight threshold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

SPECIFICATIONS

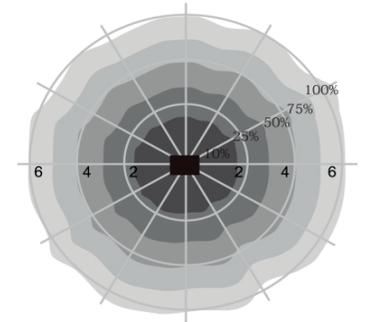
Operating voltage	220~240Vac, 50Hz
Rated load	400W(inductive), 800W (resistive)
HF system	5.8GHz±75MHz, ISM wave band
Transmitting power	<0.5mW
Power consumption	≤0.5W(standby)
Detection zone	Max.(D x H): 12m x 6m
Detection sensitivity	10% / 25% / 50% / 75% / 100%
Hold time	5s / 30s / 90s / 3min / 20min / 30min
Daylight sensor	2lux / 10lux / 25lux / 50lux / Disable
Mounting height	6m Max.
Motion detection	0.5~3m/s
Detection angle	150°(wall installation) 360°(ceiling installation)
Operating temperature	-20~60°C
IP rating	IP20



DETECTION PATTERN



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



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

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 ↑ [DIP SWITCH]	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: 3min
 V: 20min
 VI: 30min

		4	5	6	
ON ↑ [DIP SWITCH]	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 ↑ [DIP SWITCH]	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.

GENERAL GUIDELINES FOR INSTALLATION

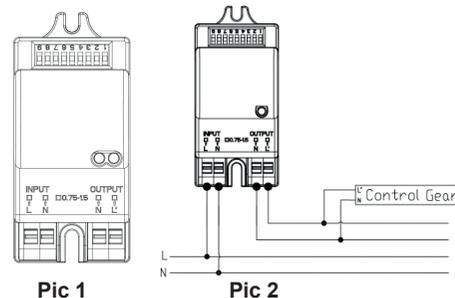
- The sensor should be installed by a qualified electrician. And ensure that the electricity supply is switched off before installing or servicing the product.
- The sensor should not be modified in any way. Any modifications made for this product will immediately invalidate any warranties issued.
- The company 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 AND WIRING

The sensor has a 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.

WIRING SCHEME

FOR ON/OFF FUNCTION: Connect to normal control gears (normal LED drivers or ballasts), the wiring as per pic 2.



Pic 1

Pic 2

Spectrum Test Report

Sample : S16WLED-WH
Sample No. : 10
Manufacturer : SGD LIMITED

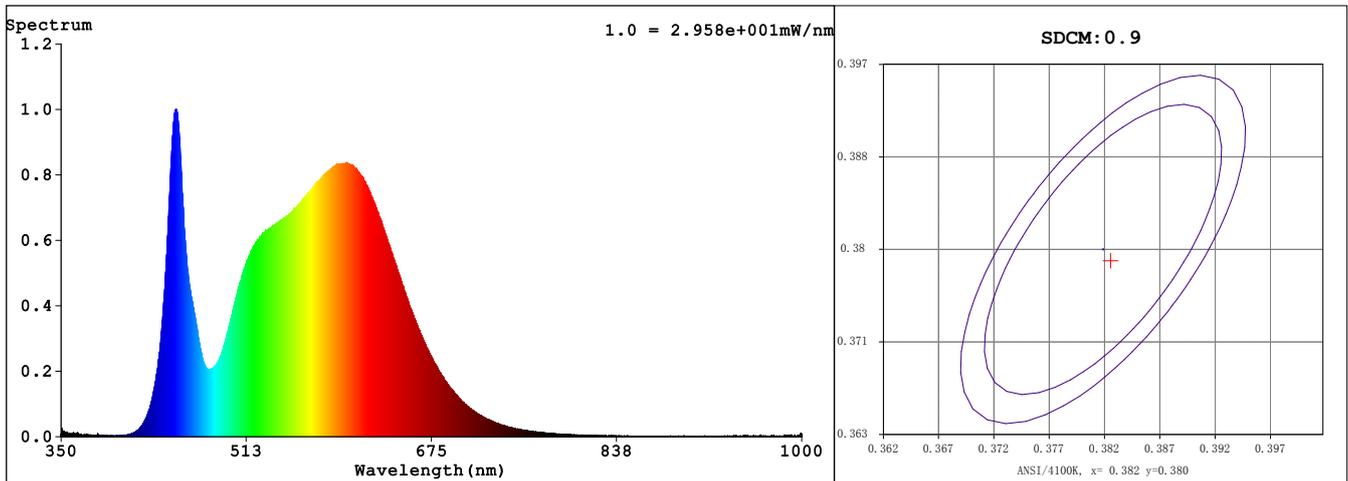
Date : 2021-12-30 14:41:00
Sam. Status :
Instrument : HAAS-2000

Test Condition

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

RH : 65.0%
IP : 52192 (80%)
T : 479 ms
Sensitivity : High

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3825$ $y = 0.3787$ / $u' = 0.2257$ $v' = 0.5027$ ($duv=3.01e-04$)

CCT= 3959K Prcp WL: $L_d=579.1\text{nm}$ Purity=28.4%

Peak WL: $L_p=451\text{nm}$ FWHM: =19.6nm Ratio:R=18.7% G=78.0% B=3.3%

Render Index: $R_a = 84.1$

R1 =83 R2 =89 R3 =93 R4 =84 R5 =83 R6 =85 R7 =88
R8 =68 R9 =17 R10=73 R11=84 R12=60 R13=85 R14=96 R15=78

Photometric & Radiometric Parameters

Flux = 1445.0 lm Eff. : 102.39 lm/W Fe = 4.4230 W

Electrical parameters

V = 230.2 V I = 0.1190 A P = 14.11 W PF = 0.5153 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

Declaration Number	Declaration Number
034-S16W EM SENS CCT	034-S16 EME CCT
034-S16W SEN WH CCT	034-S16WCCT -WH
034-S16WLED-WH	

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

Model Number:

Codes	Codes
S16W EM SENS CCT	S16 EME CCT
S16W SEN WH CCT	S16WCCT -WH
S16WLED-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 below listed harmonised standards and technical specifications listed below:

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



Signed:

Date:

Place of Issue: Republic of Ireland

