## Instruction Manual for Integrated SensorDIM LED Driver
Tri-level Dimming Version, Model No.:HEC6018

Technical Specifications

PRODUCTTYPE:	Integrated sensorDIM LED driver
OPERATING VOLTAGE:	220-240VAC 50Hz/60Hz
INPUT:	90~80mA / 220~240V / 20W
OUTPUT:	500mA / 23~36V / 11.5~18W
HF SYSTEM:	5.8GHz CW radar
TRANSMISSION POWER:	<0.2mW
DETECTION ANGLE:	$30^o \sim 150^o$
DETECTION RANGE:	Max. 8 x 5 (DxH)
TIME SETTING:	5s~10min.
DAYLIGHT SENSOR:	2~50Lux; disable
STAND-BY PERIOD:	0s, 30s ~ 10min, +∞
STAND-BY DIMMING LEVEL:	10% ~30%
MOUNTING:	Indoors,ceiling&wall mounted
WORKING TEMP.:	$-20^oC \sim +50^oC$
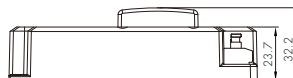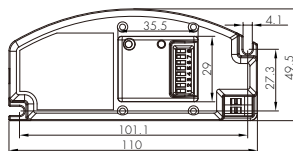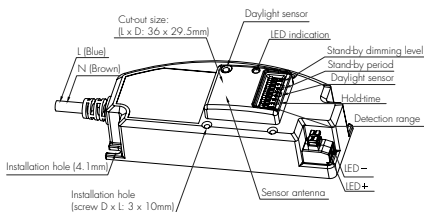
This is a smart integration of microwave motion sensor LED driver. Designed in the software and thanks to our worldwide patented circuit, the built-in daylight sensor is prior to motion sensor so as to achieve utmost energy saving purpose.

Note: the high-frequency output of this sensor is <0.2mW; approximately just 1‰ of the transmission power of a mobile telephone.

IMPORTANT
PLEASE READ THESE INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION AND RETAIN THIS LEAFLET IN A KNOWN AND SAFE PLACE FOR FUTURE REFERENCE.

Section 1 Installation and Wiring

1.1 Ensure that the electricity supply is switched off before installing or servicing this product.

1.2 Wiring diagram
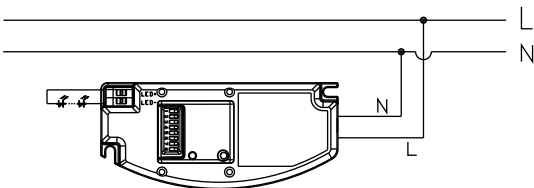
- Stranded wire: 0.5~1.5mm^2 ▪ American wire gauge: 18AWG   ▪ Wire stripping length: 9~10mm

Section 2 SETTINGS

Detection range

Detection range can be tuned by selecting the combination on the DIP switches to fit precisely for each specific application.

I – 100%
II – 50%

	1	
I	●	100 %
II	○	50%

Hold-time

This setting determines the time period the lamp will remain at 100% upon detection.
Note: the timer is reset upon each motion detection.

I – 5s
II – 30s
III – 3min
IV – 10min

	2	3	
I	●	●	5s
II	●	○	30s
III	○	●	3min
IV	○	○	10min

Daylight sensor

The daylight threshold can be set on the DIP switches suit to the particular application.

I – Disable
II – 50Lux
III – 10Lux
IV – 2Lux

	4	5	
I	●	●	Disable
II	●	○	50Lux
III	○	●	10Lux
IV	○	○	2 Lux

Stand-by period (corridor function)

This is the time period setting to keep at the low light output level before it is completely switched off in the long absence of people.

I – 0s
II – 30s
III – 10min
IV – +∞

	6	7	
I	●	●	0s
II	●	○	30s
III	○	●	10min
IV	○	○	+ ∞

Note: "0s" means on/off control; "+∞" means bi-level dimming control, fixture never switch off. (i.e. the light remains at the stand-by dimming level until motion is detected.)

Stand-by dimming level

This is the dimmed low light output level setting after the hold-time has expired.

I – 10%
II – 30%
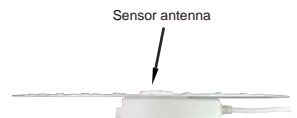
	8	
I	●	10%
II	○	30%

SECTION 3 FUNCTION

3.1 Assembly

The sensor antenna features the DIP switches and protrudes the LED panel. This feature enables the end user to access the sensor settings without removing the gear tray / LED board.

Note: end-user can also scan the QR code on the housing for checking settings.

Sensor antenna

Cut-out size: 36 x 29.5 (mm)

SECTION 4 TROUBLE SHOOTING

MALFUNCTION CAUSE REMEDY	CAUSE	REMEDY
The light will not come on	Incorrect light-control setting selected	Adjust daylight threshold setting
	Faulty lamp	Replace lamp
	No power supply	Check power to sensor
The lamp is always on	Continuous movement in the detection zone	Check detection area setting
The lamp is on without any identifiable movement	The sensor is not mounted for reliably detecting movement	Securely mount enclosure
	Movement occurred, but not identified by the sensor (Movement behind wall, movement of small object in immediate lamp vicinity etc.)	1. Reduce sensitivity. 2. Check the movement behind walls to avoid facilities such as water pipe, fan, which may mis-trigger the sensor.
The lamp will not work despite movement	Rapid movements are being suppressed to minimize malfunctioning or the detection radius is too small.	Check detection area setting