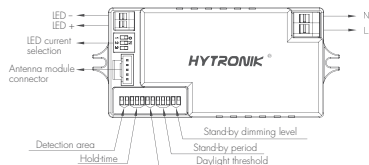


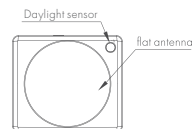
Instruction Manual for Integrated SensorDIM LED Driver Dimming Version Model No.:HEC9425

Technical Specifications

PRODUCT TYPE:	Integrated sensorDIM LED driver
OPERATING VOLTAGE:	120-277VAC 50Hz/60Hz
HF SYSTEM:	5.8GHz CW radar
TRANSMISSION POWER:	<0.2mW
DETECTION ANGLE:	30° ~ 150°
DETECTION RANGE:	Max. 12 x 6m (DxH)
TIME SETTING:	5s ~ 30 min
DAYLIGHT SENSOR:	2~50Lux, disable
STAND-BY PERIOD:	0s, 10s ~ 1h, +∞
STAND-BY DIMMING LEVEL:	10% ~ 50%
MOUNTING:	Indoors, ceiling & walling mounted
WORKING TEMP.:	-20°C ~ +50°C
IP RATING:	IP20



Main body



Flat sensor antenna

This is a smart integration of microwave motion sensor and multiple current selection LED driver.

With the help of detached sensor antenna, it requires very little space on the LED panel and gives pre-selected constant current to drive the LEDs to work based on movement detection. After the hold time, it switches off the light.

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

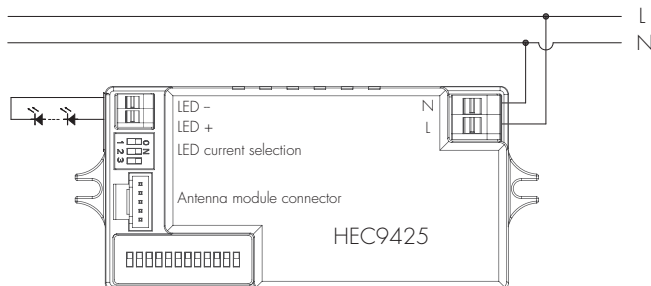
IMPORTANT

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

SECTION 1 WIRING & INSTALLATION

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

1.2 Wiring diagram



• Stranded wire: 0.5~1.5mm²

• American wire gauge: 16~20AWG

• 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%
- III – 10%
- IV – Sensor off

	1	2	
I	●	●	100%
II	●	○	50%
III	○	●	10%
IV	○	○	Sensor OFF



Note: In "sensor off" setting, the HEC9425 can be used as a normal LED driver only, motion detection and all other sensor functions are completely deactivated.

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 – 1min
- IV – 5min
- V – 10min
- VI – 20min
- VII – 30min

	1	2	3	
I	●	●	●	5s
II	●	●	○	30s
III	●	○	○	1min
IV	●	○	○	5min
V	○	●	○	10min
VI	○	●	○	20min
VII	○	○	○	30min

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

	1	2	
I	●	●	Disable
II	●	○	50Lux
III	○	●	10Lux
IV	○	○	2Lux

Note: In disable mode the lamp(s) will always be on with motion detected and operate at 100% light output, even in bright daylight.

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 – 10s
- III – 1min
- IV – 5min
- V – 10min
- VI – 30min
- VII – 1h
- VIII – +∞

	1	2	3	
I	●	●	●	0s
II	●	●	○	10s
III	●	○	○	1min
IV	●	○	○	5min
V	○	●	○	10min
VI	○	●	○	30min
VII	○	○	○	1h
VIII	○	○	○	+∞

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 – 20%
- III – 30%
- IV – 50%

	1	2	
I	●	●	10%
II	●	○	20%
III	○	●	30%
IV	○	○	50%

SECTION 3 FUNCTIONS

3.1 LED current selection

The current can be easily configured by choosing the correct combination of the DIP switches (see table on the right).



3.2 LED Max. load and voltage

This multiple current LED driver has a wide range of loading capacity--

Max. load @ different current--

3.5~15W(350mA)	5~21W(500mA)	5.5~22W(550mA)
7~25W(700mA)	7~25W(750mA)	9~21.6W(900mA)

Max. voltage @ different current--

10~43V(350mA)	10~42V(500mA)	10~40V(550mA)
10~36V(700mA)	10~34V(750mA)	10~24V(900mA)

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