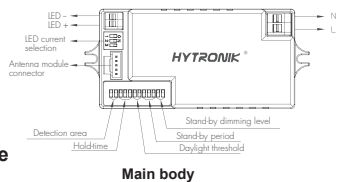


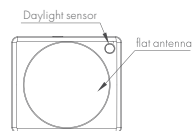
Instruction Manual for Integrated SensorDIM LED Driver Dimming Version Model No.:HEC9025

Technical Specifications

PRODUCT TYPE:	Integrated sensorDIM LED driver
OPERATING VOLTAGE:	220-240VAC 50Hz/60Hz
HF SYSTEM:	5.8GHz CW radar
TRANSMISSION POWER:	<0.2mW
DETECTION ANGLE:	30°~150°
DETECTION RANGE:	Max. 12 meters in diameter, adjustable
TIME SETTING:	5s ~ 30 min
LIGHT CONTROL:	2~50Lux, disable
STAND-BY PERIOD:	0s, 10s ~ 1h, +∞
STAND-BY DIMMING LEVEL:	10% ~ 50%
MOUNTING:	Indoors, ceiling & walling mounted
INSTALLATION HEIGHT:	Max. 6m
WORKING TEMP.:	-20 ~ +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.

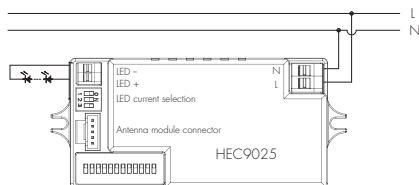
With the help of detached sensor antenna, it requires very little space on the LED panel and gives pre-selected constant current to drive the LEDs to work based on movement detection. After the hold time, it switches off the light.

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

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 Wiring diagram




SECTION 2 SETTINGS

Detection Area:

This determines the effective range of the motion detector and is set by DIP switches at the sensor itself, refer to figure. Note that reducing the sensitivity will also narrow the detection range. The following settings are available:

- I – 100%
- II – 75%
- III – 50%
- IV – Sensor off

	1	2	
I	●	●	100%
II	●	○	75%
III	○	●	50%
IV	○	○	Sensor OFF



Note: In "sensor off" setting, the HEC9025 can be used as a normal LED driver only, motion detection and all other sensor functions are completely deactivated.


Hold time:

This determines the time the fitting remains at 100% level on motion detection and is set with DIP switches at the sensor itself, refer to figure. The walk test setting is useful when installing the fitting to establish correct operation and range.

The following settings are available:

- 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:

This setting holds off the 100% light output should there sufficient daylight and is set using DIP switches at the sensor, refer to figure.

The following settings are available:

- 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 you would like 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 2 steps of dimming control, fixture never switch off.

Stand-by dimming level

This is the dimmed low light output level you would like to have after the hold-time in the absence of people.

- 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 Tri-level control (Corridor function)

Hytronik builds this function inside HEC9025/DM to achieve 3 steps dimming control, for some areas that require a light change notice before switch-off.

It offers 3 levels of light: 100%-->dimmed light (10% /20% / 30% / 50% optional) -->off; and 2 periods of selectable waiting time: motion hold-time and stand-by period; Selectable daylight threshold and freedom of detection area.

3.3 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)	9~25W(900mA)

Max. voltage @ different current--

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

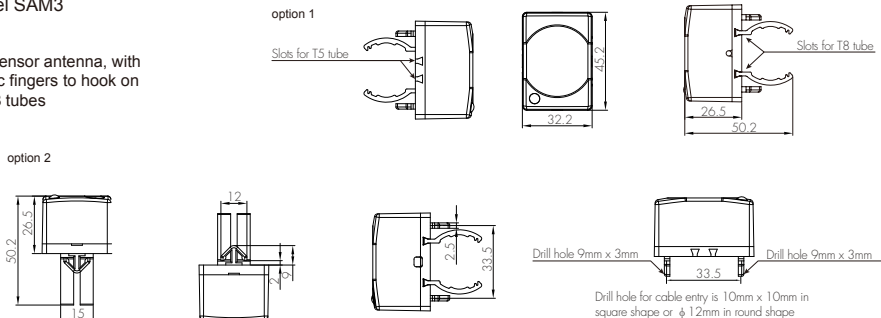
SECTION 4 SENSOR ANTENNA OPTIONS

Model SAM3

Flat sensor antenna, with plastic fingers to hook on T5/T8 tubes

option 2

option 1



Model SAM4

Flat sensor antenna, with optional cable entry (side entry and back entry)

