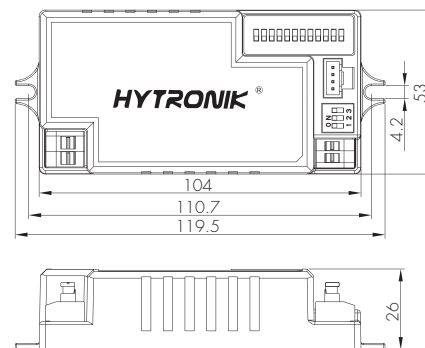
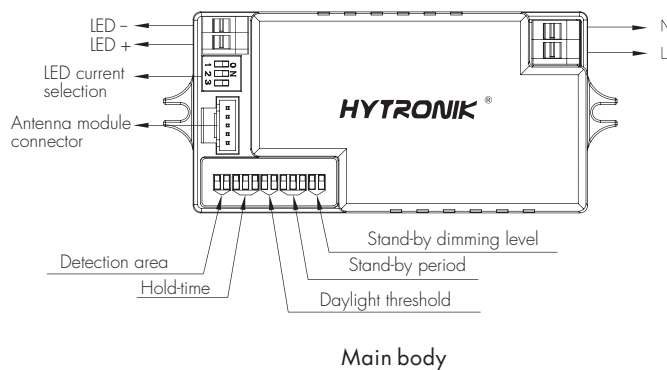
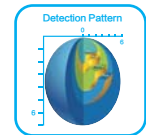
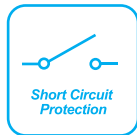
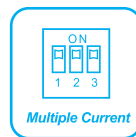
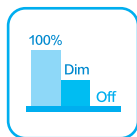
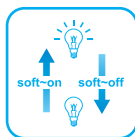
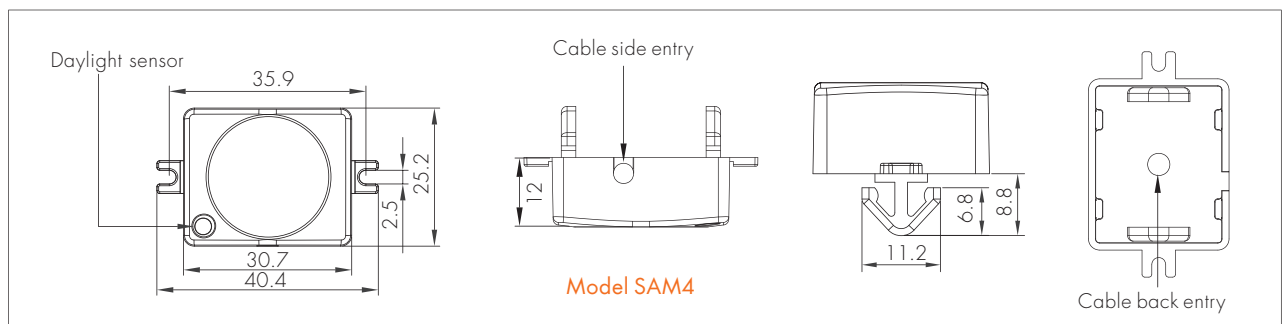


Integrated SensorDIM™ LED Driver

Model: HEC9025



Super-compact flat sensor antenna, with optional cable entry (side entry and back entry)



This is a smart integration of microwave motion sensor and LED driver with multiple current selections. Sensor and driver 2 in 1, save space, save assembly work, hassle-free and cost effective!

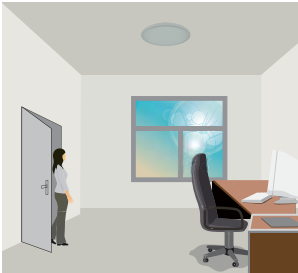
Thanks to the detached sensor antenna, it requires very little space on the LED panel, and gives pre-selected constant current to drive the LEDs to work based on movement detection. After the hold-time, it dims the light to pre-set dimming level, and eventually turns it off in long absence.

Functions and Options

1 Tri-level Dimming Control (Corridor Function)

Same as Tridonic excel control gear, Hytronik builds this function inside HEC9025 to achieve tri-level dimming control, for some areas that require a light change notice before switch-off.

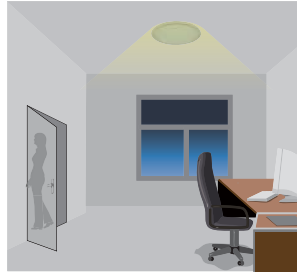
It offers 3 levels of light: 100%→dimmed light (10%, 20%, 30%, 50% optional)→off; and 2 periods of selectable waiting time: motion hold-time and stand-by period; selectable daylight threshold and freedom of detection area.



With sufficient natural light, the light does not switch on when presence detected



With insufficient natural light, it switches on the light automatically when person enters the room



People left, light dims to 10%/20%/30%/50% (options) stand-by level after the hold-time



Light switches off automatically after the stand-by period elapsed.

2 Ambient daylight threshold

Switch the power supply to the sensor two times within 2 seconds, the sensor can set the ambient lux level as the new threshold. Both the settings on DIP switch and the ambient lux threshold learned can overwrite each other.

This feature enables the daylight sensor to be commissioned to the environment in which it is installed. The latest action controls. (More details of the operation procedure please refer to user manual).

3 8H manual on mode for LED lamp

With simple operation, rapidly turn off/on the fixture 3 cycles within 3 sec. (the green LED on the sensor flashes and the fixture blinks 3 times to indicate the success of setup), lamp will be 100% on for 8 hours, and then automatically goes to sensor mode after 8 hours. Useful when sensor function is not needed in special occasion.

This 8H manual on feature can be cancelled by turning off/on the fixture 1 cycle within 1 sec.

4 LED current selections



I	●	●	●	900mA
II	○	●	●	750mA
III	●	●	○	700mA
IV	○	●	○	550mA
V	●	○	○	500mA
VI	○	○	○	350mA
1	2	3	Current	



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

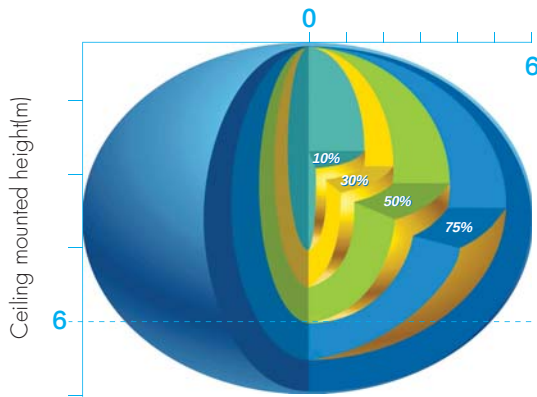
5 LED maximum load and voltage

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

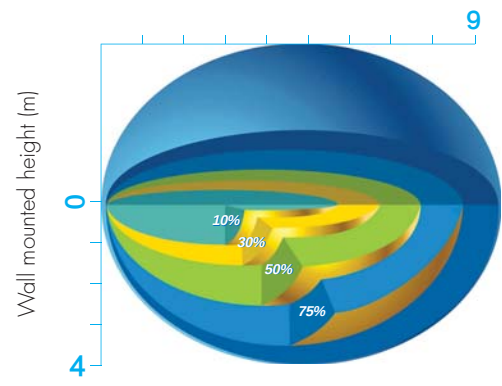
Maximum load @ different currents:	3.5~15W (350mA)	5~21W (500mA)	5.5~22W (550mA)
	7~25W (700mA)	7~25W (750mA)	9~25W (900mA)

Maximum voltage @ different currents:	10~43V (350mA)	10~42V (500mA)	10~40V (550mA)
	10~36V (700mA)	10~34V (750mA)	10~28V (900mA)

Detection Pattern



Ceiling mounted detection pattern (m)



Wall mounted detection pattern (m)

Settings

1 Detection area

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

Note: By choosing "Sensor OFF", it becomes an ordinary driver without sensor mode.

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



I – 100%
II – 75%
III – 50%
IV – Sensor OFF

2 Hold-time

Hold-time means the time period you would like to keep the lamp on 100% after the person has left the detection area.

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



I – 5s
II – 30s
III – 1min
IV – 5min
V – 10min
VI – 20min
VII – 30min

3 Daylight sensor

The daylight threshold can be set on DIP switches, to fit for particular application.

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



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

4 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.

Note: "0s" means on/off control;
"+∞" means bi-level dimming control, fixture never switches off.

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



I – 0s
II – 10s
III – 1min
IV – 5min
V – 10min
VI – 30min
VII – 1h
VIII – +∞

5 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.

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



I – 10%
II – 20%
III – 30%
IV – 50%

Technical Data

Operating voltage	220~240VAC		
Input current	0.15A		
Input power	31W (Max.)		
Warm time	20s		
Detection area	Sensor OFF/50/75/100%, can be customized		
Hold-time	5s/30s/1min/5min/10min/20min/30min, can be customized		
Daylight threshold	2lux/10Lux/50Lux /disable, can be customized		
Stand-by period	0s/10s/1min/5min/10min/30min/1H/+∞, can be customized		
Stand-by dimming level	10%/20%/30%/50%, can be customized		
Microwave frequency	5.8GHz+/-75MHz		
Microwave power	<0.2mW		
Detection range	Max. (øxH): 12m x 6m		
Detection angle	30°~150°		
Mounting height	Max.6m		
Output LED current	350mA/500mA/550mA/700mA/750mA/900mA		
Output LED voltage	10~43V (350mA)	10~42V (500mA)	10~40V (550mA)
	10~36V (700mA)	10~34V (750mA)	10~28V (900mA)
Output LED power	3.5~21W (350mA)	5~21W (500mA)	5.5~22W (550mA)
	7~25W (700mA)	5.5~25W (750mA)	9~25W (900mA)
Empty load voltage	75V		
Power factor	≥0.9		
Efficiency	85% (Max.)		
Operating temperature	-20°C ~ +50°C TC:85°C		
Abnormal protection	Output short-circuit protection with auto-reset		
EMC standard	EN55015 EN61547		
Safety standard	EN61347-1 EN61347-2-13		
Certification	Semko,CB, EMC, CE, R&TTE, SAA		
Dielectric strength	Input→output:3750VAC /5mA/1min		
IP rating	IP20		