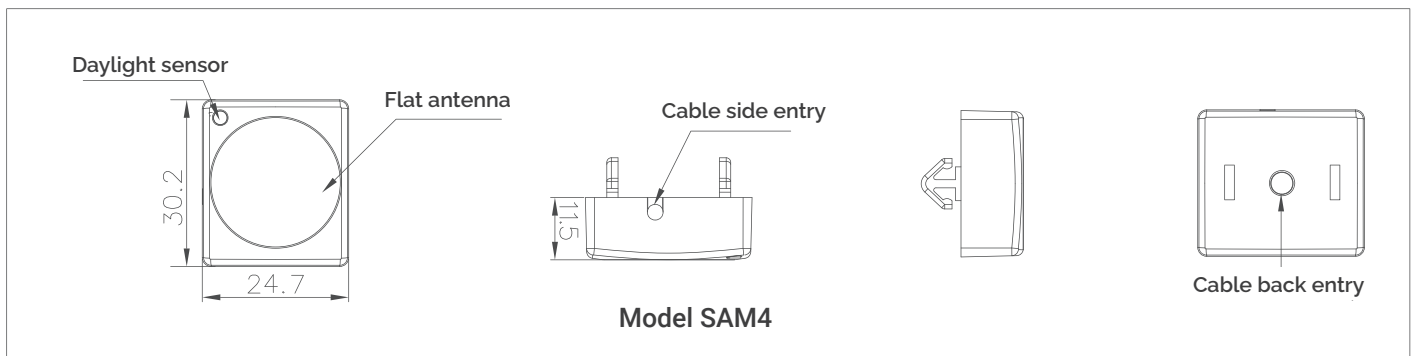
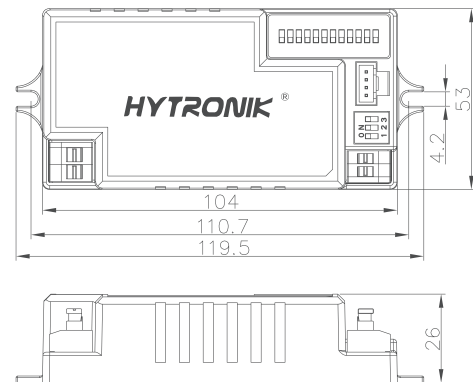
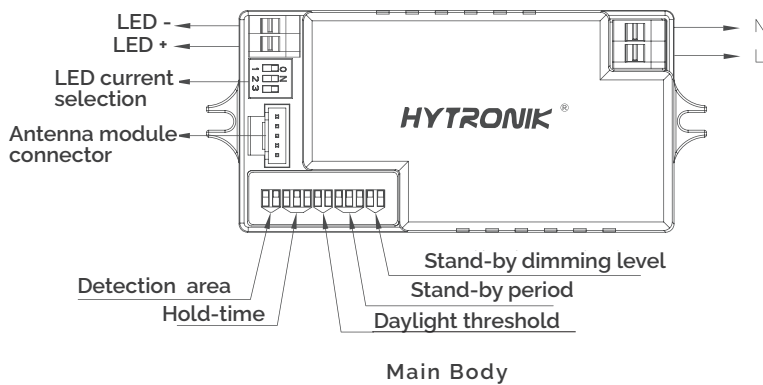
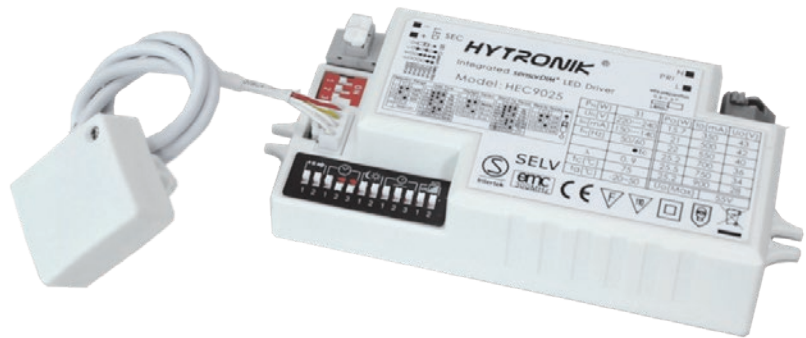
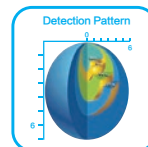
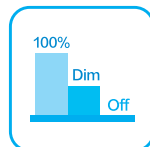
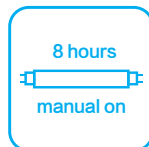
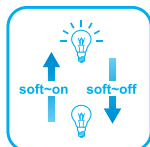


Integrated Sensor DIM LED Driver Model: HEC9025



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



Sensor+driver, 2 in 1. save space. save assembly work, hassle-free and cost effective! 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.

Integrated Sensor DIM LED Driver

FUNCTION AND OPTIONS

1) Ambient daylight threshold

With simple operation, rapidly turn off/on the fixture 2 cycles within 2 sec:

- The fixture blinks twice.
- The daylight sensor measures and remembers the surrounding lux for 1 sec.
- The fixture is on for 10s to indicate the success of learning.

* This feature enables the fixture to function well in any real application circumstance, as the daylight penetrated into fixture may vary a lot.

* The latest surrounding lux value overwrites previous lux value learned.

* Both the settings on DIP switch and the learned ambient lux threshold can overwrite each other. The latest action stays in validity.

2) 8H manual on mode for LED lamp

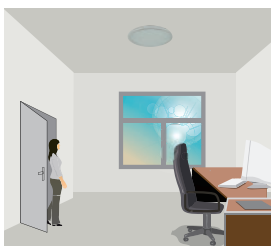
With simple operation, rapidly turn off/on the fixture 3 cycles within 3 sec. (the green LED on the sensor flashes and the fixture blinks 3 times to indicate the success of setup), lamp will be 100% on for 8 hours, and then automatically goes to sensor mode after 8 hours. Useful when sensor function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

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

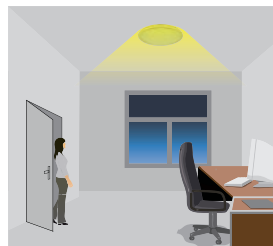
3) Three Steps Dimming Control (Corridor Function)

Same as Tridonic excel ballast, Hytronik builds this function inside HEC9025 to achieve 3 steps dimming control, for some areas that require a light change notice before switch-off.

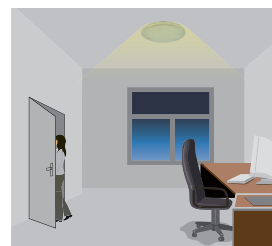
It offers 3 levels of light: 100% -> dimmed light (10%, 20%, 30%, 50% optional) -> off; and 2 periods of selectable waiting time: motion holdtime and standby period; selectable daylight threshold and freedom of detection area.



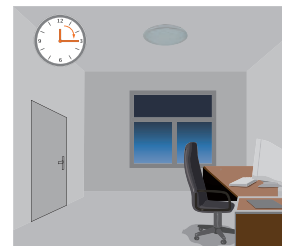
With sufficient natural light, the light does not switch on when presence detected



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

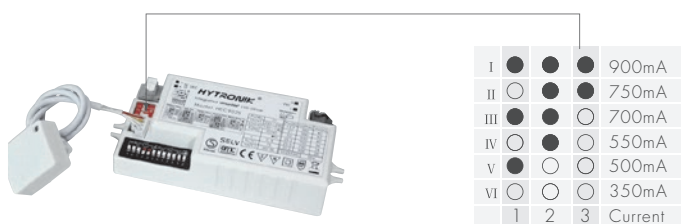


People left, light dims to 10%/20%/30%/50% (options) stand-by level after the hold time



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

4) LED current selection



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

Integrated Sensor DIM LED Driver

FUNCTION AND OPTIONS (Cont'd)

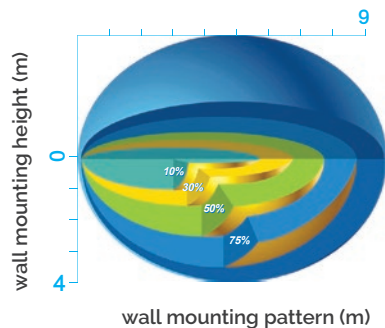
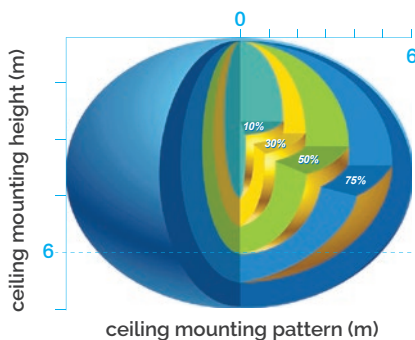
5) Max.Load and Voltage

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)	10~28V (900mA)

DETECTION PATTERN



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 2 steps 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 – +∞

Integrated Sensor DIM LED Driver

SETTINGS (Cont'd)

4) 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/1 min/5min/10min/20min/30min, can be customized		
Daylight threshold	2lux/10lux/50Lux /disable, can be customized		
Standby period	0s/10s/1 min/5min/10min/30min/1H/+∞, can be customized		
Standby 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	≥0.96		
Efficiency	85% (Max.)		
Operating temperature	-20°C ~ +50°C TC:75°C		
Abnormal protection	Output short-circuit protection with auto-reset		
EMC standard	EN55015	EN61547	
Safety standard	EN61347-1	EN61347-2-13	
Certification	Semko, EMC, CE, R&TTE, SAA		
Dielectric strength	Input→output:3750VAC /5mA/1min		
IP rating	IP20		