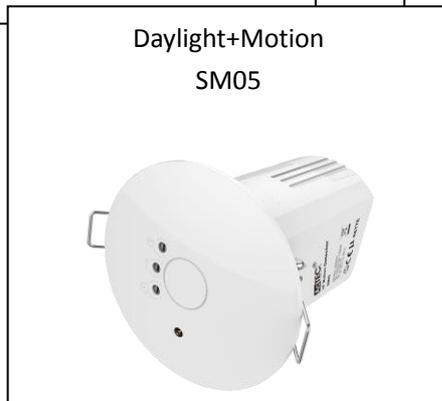
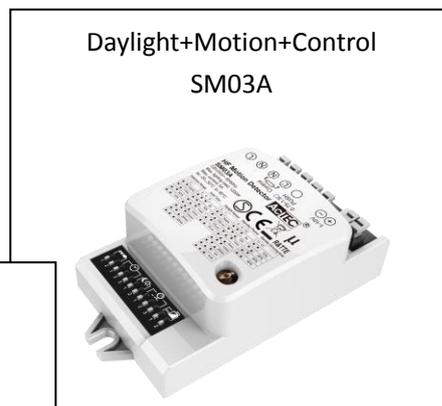


Lighting Control

Sensor	Daylight	2
	Daylight+Motion	3
	Daylight+Motion+Control	4
	Daylight+Motion+Control IP67	5



With the increasing interests of lighting control to achieve the best possible energy saving and smart lighting, AcTEC has set up a team of highly qualified engineers specialized in developing new products in this respect since 2015. Our efforts are exerted mainly on Sensor, Dimmer, and Smart lighting control devices.

You are presented below with AcTEC Sensors of

- Daylight
- Daylight + Motion
- Daylight + Motion + 1-10V control

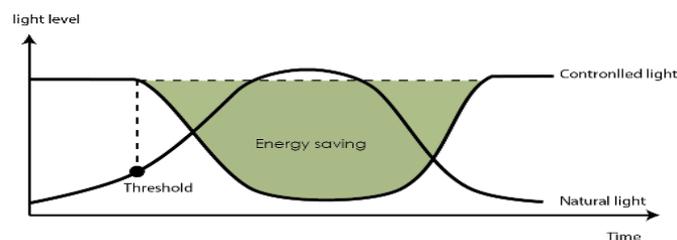
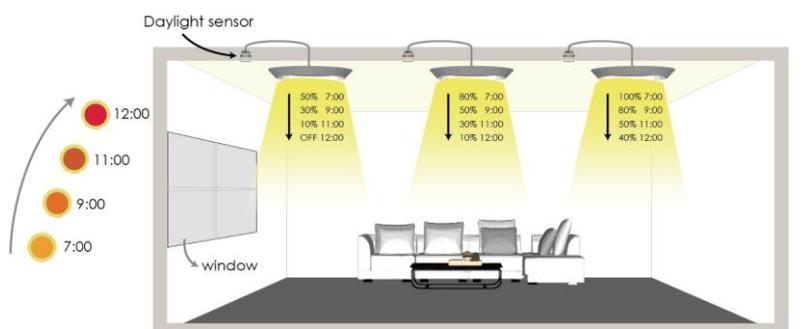
Daylight Sensor is designed to measure the surrounding light levels. It transforms the light signal into electrical signal (1-10V) that would be fed into dimmable ballast or LED driver. Hence, the ballast or driver would automatically make the light brighten or dim according to how much light the Sensor detects.

As part of energy saving solution, daylight sensor is widely used in daylight harvest that automatically adjusts light luminance to a user-defined level. This energy saving solution is best suit for installation in rooms with windows and open spaces receiving natural light.

Key specifications and features of products are shown in below.

 <p>Daylight sensor SL01A</p>	<ul style="list-style-type: none"> ● No input power required ● Output: 1-10V control ● Max 50mA output current (capable to control up to 40 pcs of 1-10V dimmable ECGs) ● Accessories provided for various mounting methods : Surface mount, recessed mount, and Nuts lock ● Adjustable Ambient light threshold setting: 16 - 470 lux
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Example for Daylight harvest



Natural & Controlled light interactive diagram

Energy saving with light harvest

Daylight + Motion Sensors are designed to combine motion detection & light level detection in one unit to allowing automation scenario to turning ON and OFF the lights in respond to the ambient brightness and presence of motion detected.

When the ambient light level is brighter than the pre-set threshold level, the motion detection is disabled. Only when the ambient light level is lower and motion is detected, the lights would be turned ON. The lights would be OFF after timeout that can be set from 5s to 30 mins.

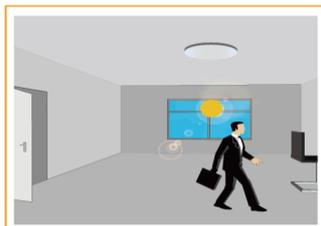
Key specifications and features of products are shown in below.

 <p>SM05</p> <p>SM02 HF Motion Detector</p>	<ul style="list-style-type: none"> ● Rated supply voltage: 220V – 240V ● Load wattage: 1200W ● Switches all lighting loads: incandescent, halogen, CFL, LED, fluorescent ● Adjustable Timeout: 5s to 30 min ● Adjustable Sensibility: 10% -100% ● Adjustable Ambient light threshold setting: 5 lux-2000 lux
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SM02 can be installed inside a luminaire invisibly;

SM05 can be installed separated from luminaire.

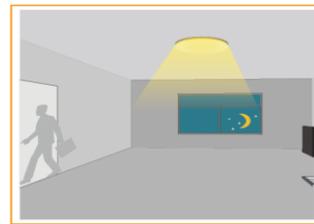
Example for automatic switch control



The lamp turns off when ambient light is higher than preset illumination level



The lamp switches on when ambient light is lower than preset illumination level and motion is detected.



The lamp remains ON before timeout.

Daylight + Motion + 1-10V control Sensors are designed to combine motion detection & light level detection in one unit and also equipped with 1-10V output control. On top of the ability to turning ON the lights in respond to the ambient brightness and presence of motion detected. It also allows automation scenario to turning OFF the lights in two steps, Hold and Standby, before OFF.

For example, if 20% dimming level is set for the standby period and standby time is set to be ∞ , this allows automation scenario to keep the lights at a 20% level when the ambient brightness is below threshold. The lighting level would be increased to 100% after detecting motion, remained ON for the hold-time set, and then back to standby 20% brightness when no motion is detected. This automatic control is commonly referred as corridor lighting function.

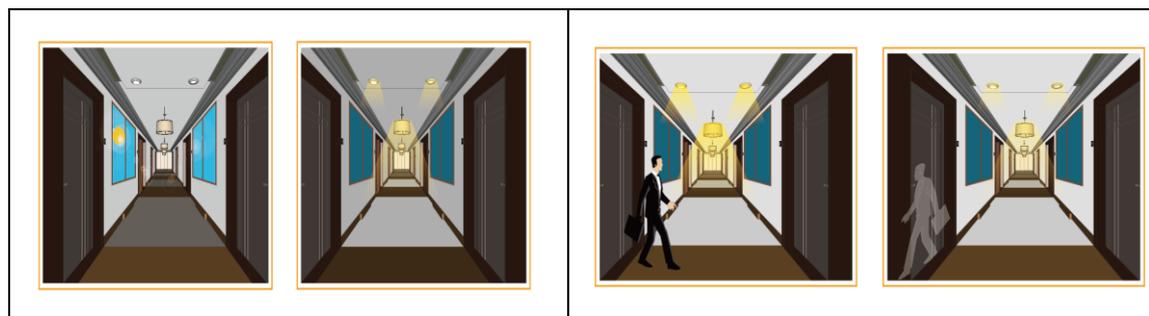
Key specifications and features of products are shown in below.

 <p>SM03A</p> <p>SM04A</p> <p>HF Motion Detector with 1-10V output</p>	<ul style="list-style-type: none"> ● Rated supply voltage: 220V – 240V ● Load wattage: 1200W ● Switches all lighting loads: incandescent, halogen, CFL, LED, fluorescent ● Adjustable Hold time: 5s - 30 min (after motion activated) ● Adjustable Sensibility: 10% -100% ● Adjustable Ambient light threshold setting: 5 lux - 50 lux + disable ● Adjustable Standby time: 0s - ∞ (after Hold time) ● Adjustable Standby dimming level: 10% - 50%
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Detection head is inside SM03A and detached in SM04A.

There are a few designs of detection heads available for SM04A. Please contact us.

Example for corridor lighting function



Lights off when ambient

Light above daylight threshold

Lights on 20% when ambient

light is insufficient

Lights ON 100% when motion

is detected.

Lights back to standby level

After the hold time

IP67 Daylight + Motion + 1-10V control Sensor is designed for IP67 application. It combines motion detection & light level detection in one unit and equipped with 1-10V output control that allows automation scenario to turning ON the lights in respond to the ambient brightness and presence of motion detected. It also allows automation scenario to turning OFF the lights in two steps, Hold and Standby, before OFF.

Key specifications and features of products are shown in below.

 <p>SM06A IP67 HF Motion Sensor</p>	<ul style="list-style-type: none">● Rated supply voltage: 220V – 240V● Load wattage: 500W● Switches all lighting loads: incandescent, halogen, CFL, LED, fluorescent● Adjustable Hold time: 5s - 30 min (after motion activated)● Adjustable Sensibility: 50% -100%● Adjustable Ambient light threshold setting: 50 lux or disable● Adjustable Standby time: 0s - ∞ (after Hold time)● Adjustable Standby dimming level: 10% - 50%
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This Model is designed to fit with an outdoor High Bay. AcTEC is able to develop different housing cases to suit with different installation and applications.