

# **EUS01**

### **Daylight Sensor**

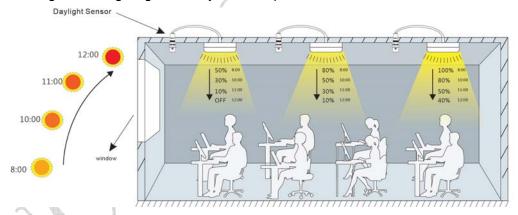
# The same of the sa

#### Introduction

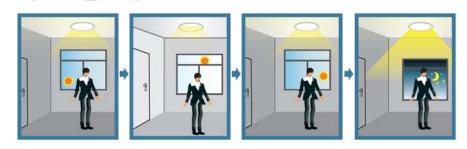
Faced with the skyrocketing cost of energy and environmental concerns, builders, architects and lighting experts are increasingly turning to day lighting as a primary source of illumination, and proper daylight can increase the comfort. To take full advantage of daylight integration, buildings should have automated controls that either turn off or dim artificial light in response to the available daylight in the space, this is called 'daylight harvesting'. EUS01 supplies a simple and effective solution for daylight harvesting, connecting to 1-10V interface and using photocell to measure ambient lux level and automatically calculate how much artificial light is needed, and then convert the amount of light to 1-10V dimmable control gears (ballasts or LED drivers). 1-10V dimmable control gears adjust the lighting output according to the signal from the daylight sensor.

#### **Product Features**

- Provides an energy saving without sacrificing visual comfort.
- With ambient light dependent control.
- Directly connected to 1-10V interface.
- Simple setting of the target light level by mean of potentiometer.



# Daylight sensor (EUS01) + 1-10V dimmable control gears (Any brand)







The lamp lights on 100% illumination or dims to maintain the preset illumination The lamp dims to level against ambient light.

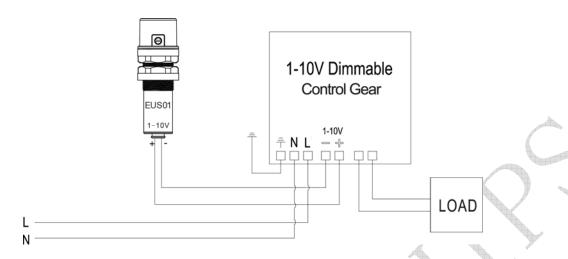
The lamp dims to maintain the preset illumination in the lamp dims to minimum light level against ambient light.

The lamp dims to minimum light level but never turn off even if with

sufficient ambient light.
Users can switch off the light manually.



#### **Wiring Diagram**



# Daylight sensor (EUS01) + ON-OFF function sensor (EUC030S) + 1-10V dimmable ballast or LED driver (Any brand)













preset illumination level (Set by 1-10V daylight sensor), the lamp keeps off.

Ambient light larger than Ambient light below than The lamp lights on 100% illumination or dims to maintain the preset illumination level, preset illumination level against ambient light. the lamp switches on when motion is detected.



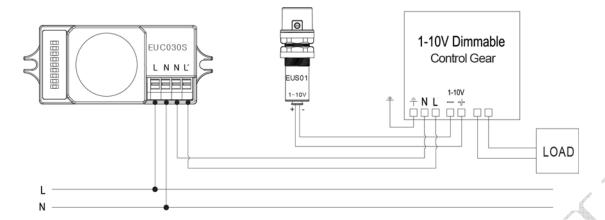
The lamp dims to minimum light level but never turn off even if with sufficient ambient light.



When no motion is detected, the lamp switches off after hold time.



#### **Wiring Diagram**

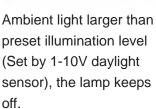


# Motion detector (EUC049V) + Daylight sensor (EUS01) + 1-10V

## dimmable ballast or LED driver (Any brand)

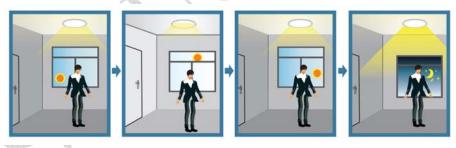
When used with motion detector EUC049V, the system has automated controls that either turn off or dim artificial light in response to the movement and available daylight in the space.







Ambient light below than preset illumination level, the lamp switches on when motion is detected.



Ambient light below than The lamp lights on 100% illumination or dims to maintain the preset illumination level, preset illumination level against ambient light.



If with sufficient ambient light, the lamp turns off at once, even with motion trigger.

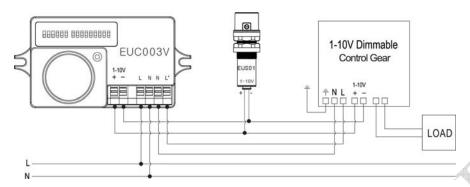




If with insufficient ambient light, the lamp dims to a stand-by dimming level (Set in the motion sensor) when no motion detected during hold time, and then switches off after stand-by period.

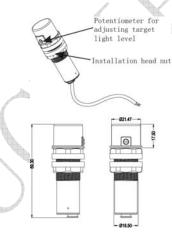


# **Wiring Diagram**



# **Technical Parameters**

1-10Vdc
50mA (Maximum rating)
1%-100%
Red +, Black -
80cm
90°
0℃~45℃
IP20



# **Summary**

	Function			
	Automatically switch on	Dimming	Dimming level at	Automatically
	when motion is detected	Range	standby period	switch off
EUS01 + 1-10V dimmable ballast or LED driver	N	1%~100%	N/A	N
EUS01 + ON/OFF function sensor + 1-10V dimmable	Y	1%~100%	N/A	Υ
ballast or LED driver				
EUS01 +Dimming function sensor + 1-10V dimmable	Υ	1%~100%	Preset on	Υ
ballast or LED driver			sensor	

# **Setting**

For best result, target light level shall be 40%-80% of total lux of luminaries.

