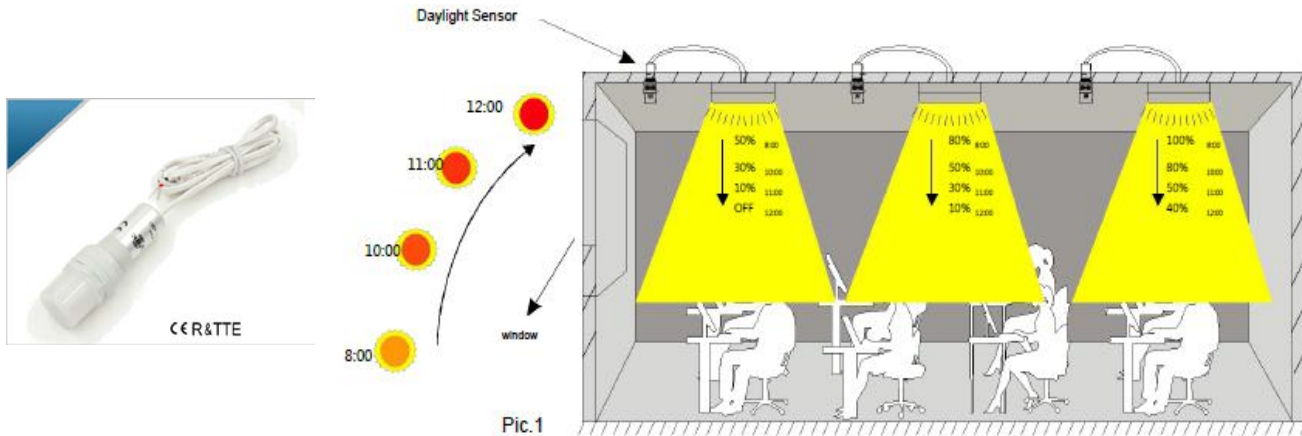


EL-GL-ACC-MDS DAYLIGHT SENSOR

Faced with the skyrocketing cost of energy and environmental concerns, builders, architects and lighting experts are increasingly turning to daylighting 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'.

Emium 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.



Daylight Sensor + 1-10V dimmable ballast or LED driver

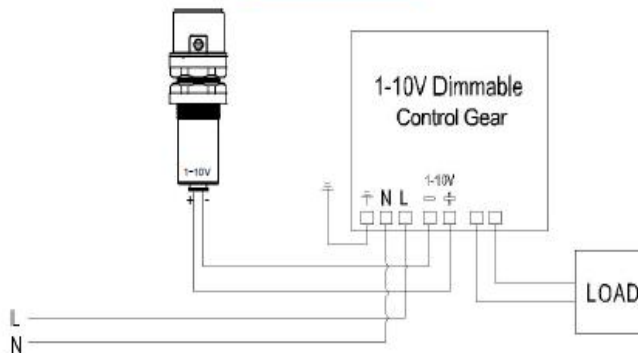


The lamp lights on 100% illumination or dims to maintain the preset illumination level against ambient light.

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 scheme



Dimmable sensor and LED driver



With enough ambient lux (ambient lux > preset lux value), lights don't turn on even though people move in the detection area.



If Ambient lux < preset lux level and people walk in the detection area, lights on; if ambient lux is much less than preset lux level and people move, lights dim brighter by 1-10V dimming control to keep visual comfort.



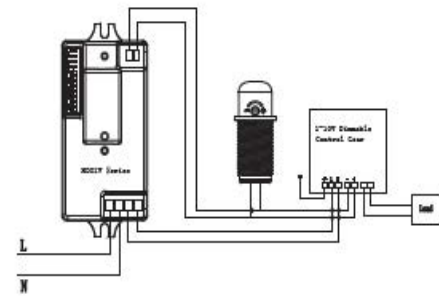
The sensor goes to holdtime after people leave the detection area.



After holdtime, the sensor goes to standby period keeping preset standby dimming level if there's no more movement.

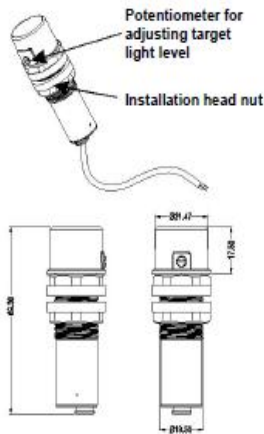


After standby period, the sensor automatically turns off.



Wiring diagram (to Dimmable sensor and LED driver) Pic 3

Daylight Sensor Technical Parameters



Operating voltage	1~10Vdc
Max. current sink	50mA (Maximum rating)
Dimming range	1%-100%
Color coding of cable	Red +, Black -
Cable length	80cm
Detection angle	90°
Operating temperature	-0°C ~45°C
IP rating	IP20

Setting

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

