ENSA™

Energy Saving Devices

Daylight Harvesting Control Systems

Harvest ambient light to maximise your energy efficiency and power savings

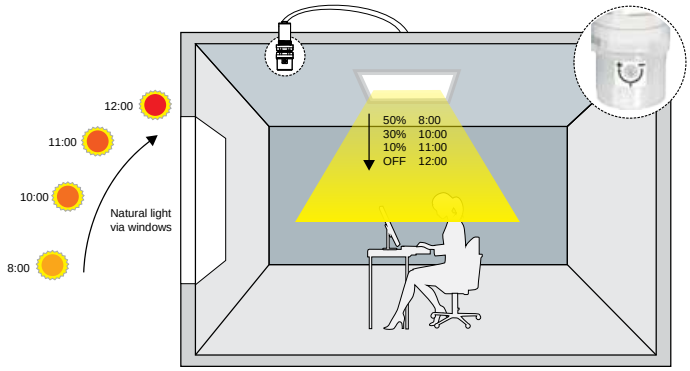
As the cost of energy rises, more builders and architects are incorporating natural light as a primary source of illumination in modern buildings. Using natural light is an excellent way to increase energy efficiency and can create more comfortable living and work spaces.

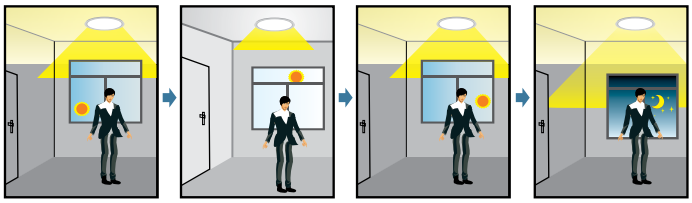
ENSA™ daylight harvesting control systems are designed to take full advantage of the natural light sources in your building to deliver optimal lighting performance and reductions in power costs. Implement automated lighting controls that dim or turn off your artificial lighting in response to available daylight in the space.

- Boost your efficiency by maximising use of natural light.
- Add daylight harvesting to any dimmable lighting system.
- Set target light levels to automate light dimming.
- Compatible with most dimmable LED drivers (ENSA-DR1).

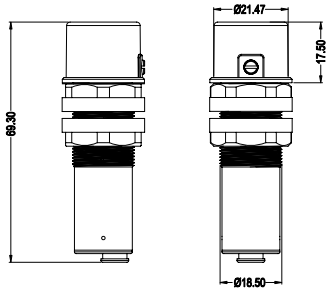
Daylight Harvesting Light Sensor

Once installed with a compatible 1~10VDC dimming LED driver, the ENSA-LC2 daylight sensor can be set to dim or brighten your lights as per a set target light level. This is performed easily via a potentiometer on the sensor.



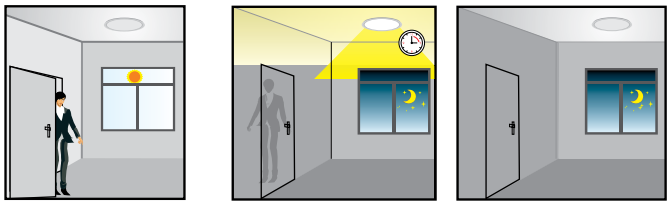


As ambient light levels rise and fall during the day, the ENSA-LC2 controls the brightness of artificial lights to reach target light levels set via the potentiometer sensor.

Model	ENSA-LC2
Product Image	
Electrical	
Input Voltage	1 ~ 10VDC
Dimming Range	1 ~ 100%
Max. Current Sink	50mA (maximum)
General	
Ingress Protection	IP20
Operating Environment	0° ~ 45°C
Installation Height	4m
Dimensions	Ø22 x 70mm (800mm cable)
Diagrams	
Dimensions	

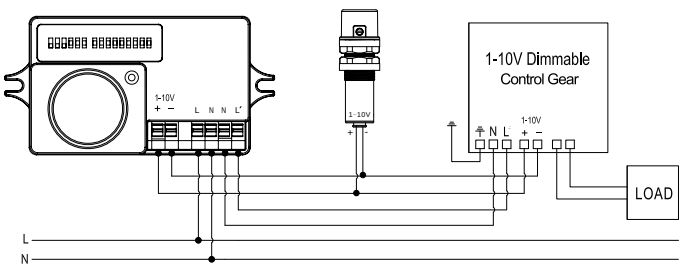
Integrating Motion Detection

The ENSA-LC2 can be augmented by an ENSA-MS4 microwave motion sensor to include motion detection control and standby dimming, alongside daylight harvesting control.



If the ENSA-LC2 detects sufficient ambient light levels, controlled lights remain off, regardless of motion detected by the ENSA-MS4.

When ambient light levels fall below the set target, the ENSA-MS4 switches the light on upon detecting movement. If ambient light levels are below the set target, after the last detected motion the ENSA-MS4 will switch off after a standby period. The standby delay period and standby brightness levels are configurable on the ENSA-MS4.



Model	ENSA-MS4
Product Image	
Electrical	
Input Voltage	220 ~ 240VAC 50 ~ 60Hz
Power Consumption	0.5W (standby) / 1W (operation)
Max. Rated Load	1200W (resistive) / 800W (inductive)
Detection Adjustments	
Daylight Sensing	5lx / 10lx / 30lx / 50lx / Disabled
Motion Detection Range	Ø16m x 10m
Motion Detection Angle	150° (wall) or 360° (ceiling)
Motion Detection Speed	0.5 ~ 3.0m/s
Detection Sensitivity	100% / 75% / 50% / 25% / 10%
On-timer Delay	10s / 30s / 90s / 3min / 20min / 30min
Stand-by Period	5s / 5min / 10min / 30min / 60min / Disabled
Stand-by Dimming	10% / 20% / 30% / 50%
General	
Ingress Protection	IP20
Operating Environment	-35° ~ 70°C
Installation Height	Max. 10m
Dimensions	101 x 52 x 26mm
Diagrams