Car Park Entrance Lighting Control System (CECS)

Installation Instructions

NOTE: All electrical work must be carried out by a licensed electrician as per the latest AS 3000 wiring regulations.
No user serviceable parts.

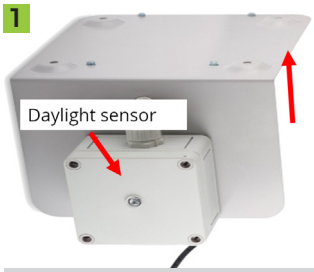
GENERAL INSTALLATION INSTRUCTIONS

Fail-Safe operation: The Nyx luminaires will automatically operate at 100% power if communcation with the CECS controller is lost for >1min. (e.g. if the CECS controller is damaged or disconnected from power). Once the communication is re-established, the system will revert to normal operation.

For optimal operation of the wireless system, ensure all Nyx luminaires are mounted at the same mounting height. The CECS controller should be mounted at about the same mounting height as the Nyx luminaires to ensure optimal signal transmission. Once the Nyx lights and the CECS controller are connected to mains power, the wireless mesh network is established automatically.

CONTROLLER INSTALLATION

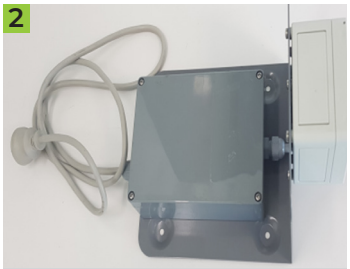
1





Mount CECS unit to surface using 4 screws. Ideally mounted underneath the concrete slab or on the wall of the car park entrance. **Ensure the daylight sensor faces the environment outside the car park.**

2



Connect the CECS controller to mains power using the mains cable supplied.

ADJUSTING SETTINGS ON DAYLIGHT SENSOR

The daylight sensor has been pre-set in the workshop and will work without adjustments in most circumstances.
If adjustments are necessary to customise to local conditions, follow the steps below.

1



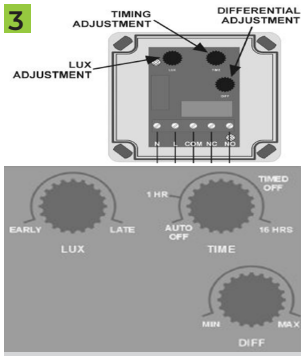
Open sensor box by unscrewing the 4 screws.

2



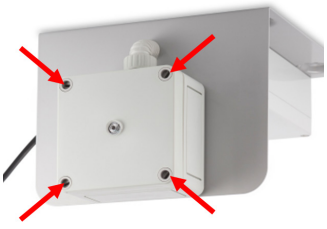
The daylight sensor operates on mains voltage. Take care when opening cover.

3



Adjust settings as outlined on next page.

4

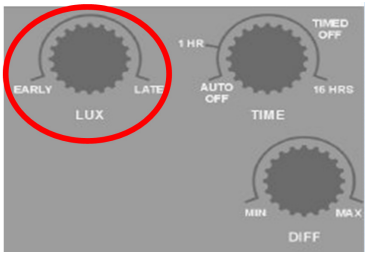


Close sensor box and secure by tightening the 4 screws.

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ADJUSTING THE DAY/NIGHT SWITCHING THRESHOLD

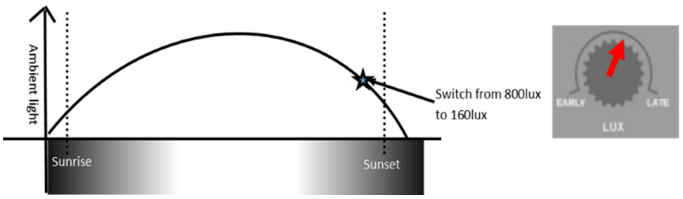


The best time of day to set the **LUX** level is when you wish to have it switch from **day-mode** to **night-mode.**

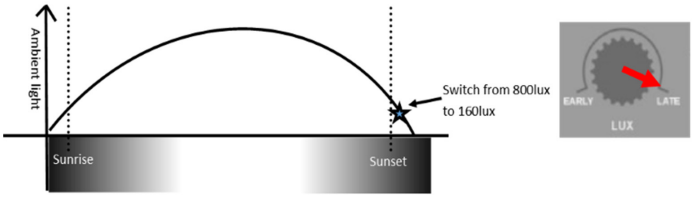
Leave the **TIME** and **DIFF** thumbwheels set as factory settings (***TIME*** set to AUTO OFF and ***DIFF*** to minimum).

Turn the **LUX** thumbwheel very slowly anti-clockwise towards the EARLY position until you hear the relay in the unit switch. Leave at that setting.

Please note: There is a 2 minute time delay to prevent nuisance switching. This is automatically disabled whenever the LUX thumbwheel is turned, and then re-instated automatically after a further 2 minutes.

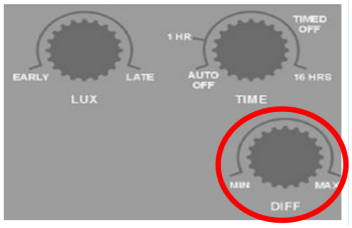


When the LUX Wheel is turned to the mid position it modifies the time of transition to night-mode. Turning the dial towards EARLY means the transition is made at dusk rather than when the sun has set.



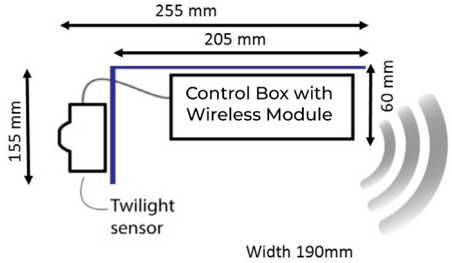
LUX Wheel turned to LATE means the lights only dim to night-mode when the sun has well and truly set.

ADJUSTING THE DIFFERENTIAL



After the unit has switched over to either day or night-mode, the differential (DIFF) is used to determine at what level of measured light the fittings should switch back again. Increasing the differential ensures that when the light levels are at the threshold of change (i.e. dusk/external PE sensor/clouds) constant switching is prevented. It has been pre-set to minimum.

DIMENSIONS



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MOUNTING OF NYX LUMINAIRES

1. Refer to the mounting location guide below for the mounting location of the Nyx luminaires.
2. When installing the wireless modules, use the ones that were supplied in the box of the CECS-NYX-T.
3. Ensure the mounting bracket is installed parallel to the drive way.

1



Secure the mounting bracket to the ceiling.

2



Line up the pins of the wireless module with the socket.

3



Twist controller module into socket on back of fitting.

4



Secure the fitting to the mounting bracket and connect fitting to power.

CONFIRMING CORRECT OPERATION

To check correct operation of the wireless network, during the daytime, cover the sensor with black tape. After 2min, all the Nyx fittings should slowly start to dim. Remove the tape and observe all fittings ramping up to full brightness after 2min.