HiSPEC
LIGHTING • FIRE & CO DETECTION

NIAGARA Adjustable Wall Mounted Photocell

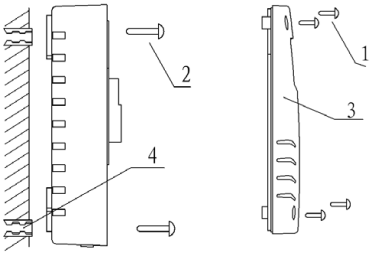
HSPC5

INSTRUCTION MANUAL

This product is an automatic photocell switch for lamps. When the ambient-light darken to the LUX level that you set in advance, the light will turn on. The light will turn off at the preset time or when the ambient-light is more than the LUX level setting.

SPECIFICATION

Ingress Protection:	IP44
Power Source::	220-240V/AC
Rated Current:	10A
Power Frequency:	50Hz
Ambient Light:	<3 - 500LUX (adjustable)
Working Temperature:	-20°C - 45°C
Rated Load:	Max: 1000W Tungsten/Halogen Max: 300W LED
Working Humidity:	<93% RH
Built in Timer:	1, 2, 3, 4, 5, 6, 7, 8, 9 Hours, or Dusk till Dawn

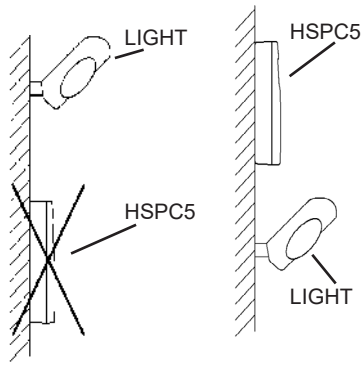


FUNCTION

- LUX setting: turn LUX knob anti-clockwise to "3"position, the photocell will only work in the dark (less than 3LUX). If you turn it clockwise to the "500" position, it will work when the ambient light is less than 500 LUX (dusk). The lower the LUX level, the darker it is.
- Time setting: you can set the number of hours the photocell stays on for as needed. For example, setting it to 3 hours would mean it would turn on at the preset LUX level and turn off again after 3 hours.

INSTALLATION

1. Switch off the power.
2. Undo the four screws on the cover and take it off.
3. Install the product with the enclosed screws and wall plugs.
4. Connect the wires with the product as in the wiring diagram overleaf.
5. Put the cover back on, switch the power on and then test it.



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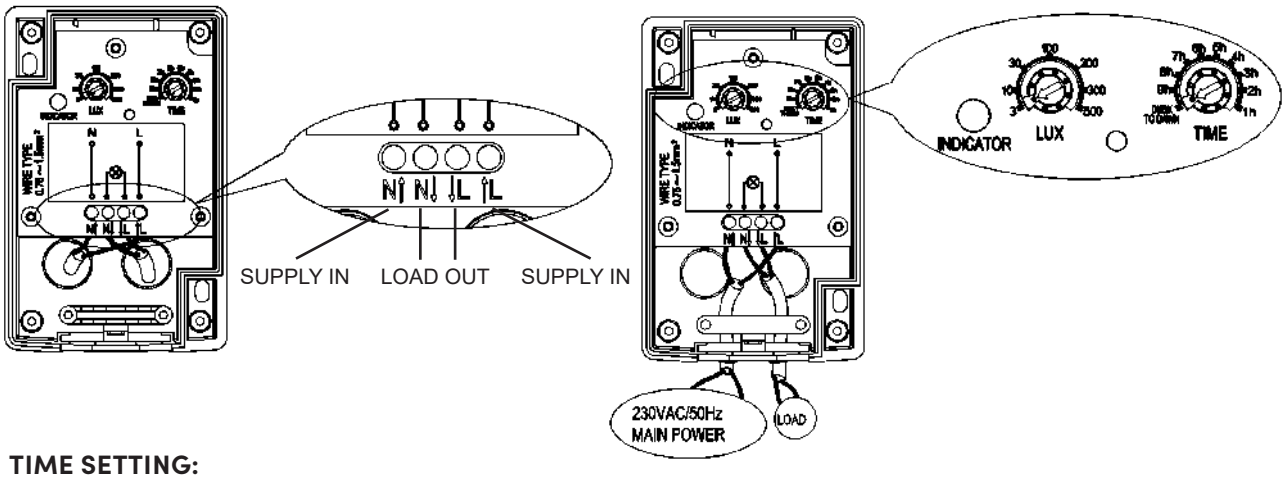
WIRING DIAGRAM



TIME SETTING:

The LED indicator inside the sensor will flash to display the preset times as following:

1. 1 hour: flash one time
2. 2 hours: flash two times
3. 3 hours: flash three times
4. 4 hours: flash four times
5. 5 hours: flash five times
6. 6 hours: flash six times
7. 7 hours: flash seven times
8. 8 hours: flash eight times
9. 9 hours: flash nine times
10. dusk to dawn: rapidly flash ten times

TEST

- Set the LUX knob to “500” position and set time knob to “1h”position.
- When you test in daytime. you should cover the product with a black opaque cloth, after 1 minute, the lamp will be turned on
- When the cloth obstructs the detection window of the photocell, the ambient light of the photocell is less than 500 LUX, the lamp will be on for one hour.
- When you take away this cloth, the lamp will be off automatically.

NOTE

- In front of the photocell, there should be no obstructions affecting natural light, inlcuding swaying objects such as trees.
- Don’t install the photocell underneath the light or in a place where the light will be irradiated to the photocell e.g. due to reflection off a wall.
- When light is on and another light source reaches the photocell (and this light lasts for more than one minute) the photocell will turn off and the electronic timer will stop counting. The timer will recount from the beginning when the photocell turns on again.
- The electronic timer will reset when the power is off over 2~5 seconds.

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