

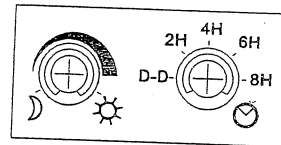
D21 (Light Sensitive Timer)

1) Features:

This Light Sensitive Timer has a controller which will automatically turn the lights of other connected devices on at dusk and off at day break. It has a time delay circuit so that it is not affected by a sudden or brief change in light level caused by intermittent cloud cover, reflections, vehicular light or lightning. It is ideally suitable for the control of lights at the front door, garden, garage, etc.

2) Specifications:

1. Dimensions: 105mm x 79mm x 36mm (H x W x D).
2. Supply voltage: 220V-240VAC 50 Hz.
3. Setting: D-D (Dusk-Dawn), 2, 4, 6 and 8 hour remain ON time after dusk according to Lux control setting.
4. Lux control: 3 Lux-1000 Lux.
5. Max load: 1000W Max (RESISTIVE LOAD), 500W Max (INDUCTIVE LOAD).
6. Consumption: < 1.8W.
7. Enclosure: IP55.



3) Installation:

1. Wall mounting as Fig. 1

Make sure that the supply power is off and double check with a voltage tester. Drill holes in the wall and insert plastic plugs. Remove the D21 front cover, connect insert cables through the rubber washer as indicated below (Fig.2). Fasten the D21 on the wall,

2. Wiring as Fig. 2

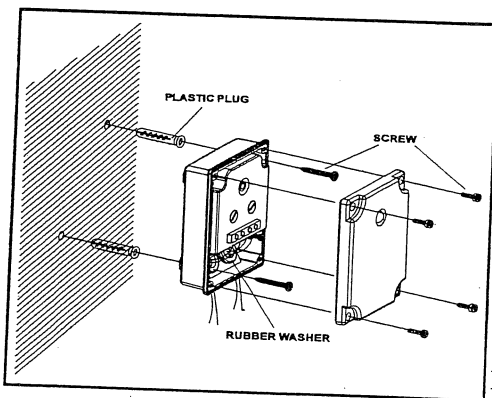


Fig. 1

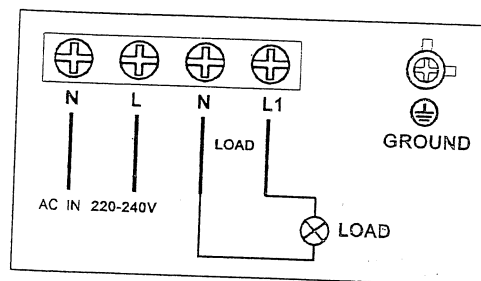


Fig. 2

3. Testing:

Turn switch to "D-D" position then turn on supply power. Light will not turn on under bright light environment. Cover the photocell window and the light will turn on after 3 seconds. Uncover it and the light will go off after 30 seconds.

4. Twilight setting:

Adjust the light sensitive level from 3 lux to 1000 lux as an on/off threshold.

5. Operation / Function:

D-D (DUSK-DAWN): Automatic on and off according to the twilight setting 2/4/6/8hr; will automatic turn off the light/device 2/4/6/8hr after dusk (according to twilight setting).

Example:

Timer set at 2 hours. Unit will turn on at dusk and turn off after 2 hours if there is no other normal light source interference. The unit will turn off if it senses light for 30 seconds continuously and if the light source is then removed, the D21 will switch back on again. The timer remains activated and so the D21 will react in the same manner until the timing period is completed.

4) Warning:

1. Make sure that the supply voltage is correct. This unit's supply voltage is 220V-240VAC 50 Hz.
2. Install unit in an environment where day/night light condition is different.
3. Do not mount the unit where light may shine on the D21 unit as adjacent to a permanent light source. Unit may not turn on.
4. Do not load the unit over the specified maximum load.

5) Troubleshooting:

Malfunction	Remedy
Unit does not switch on.	Check connections.
Unit turns on and off when connected to a light source.	Make sure that light does not shine on unit.
Unit does not switch off.	Check if CDS window is being obstructed.