

GUIDE TO LIGHT RELAY CONNECTION

D1 Arm gate Board has a 12VDC output on the Lamp Relay Terminal. Left terminal is negative and right is positive.

This output is to energise an EXTERNAL 12VDC relay which in turn can be used to turn on /off a higher rating electrical item such as a Pillar Light.

Warning: All 240v wiring MUST be done by a qualified electrical person.

1. Set Dip Switch [3] and [4] to OFF Position. Active for 1min.
2. Connect a 12VDC relay as is shown in Figure 1.

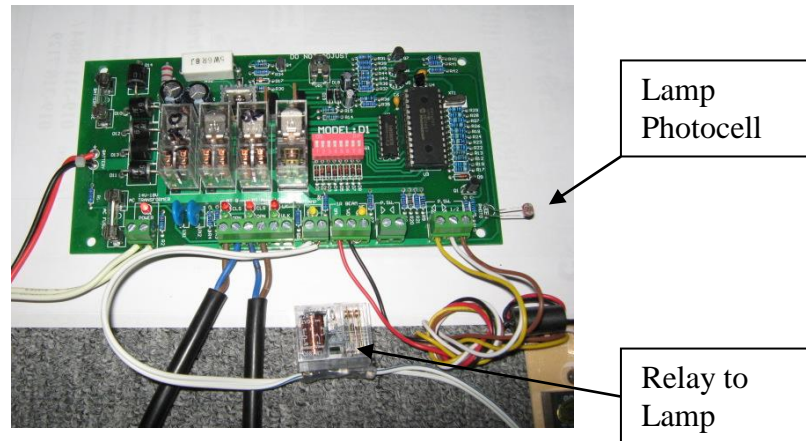


Figure 1: Connection of 12VDC Relay

Note:

D1 board is designed with a Lamp Photocell (bottom right side of D1 board), so that Lamp Relay can be activated only in a dark ambient environment.

Figure 2 below shows that the Lamp Relay is not activated in the Opening Cycle of the ARM (Green LED). This is due to the fact that the Lamp Photocell is exposed to significant lighting.

When connected to Pillar Lights, this design prevents the Pillar Light from turning ON during the Day.

If USER requires that the Pillar Lights be turned on, irrespective of the ambient lighting, use a Dark Tape to cover the Lamp Photocell or turn the Photocell inwards when mounted in the Control Box.

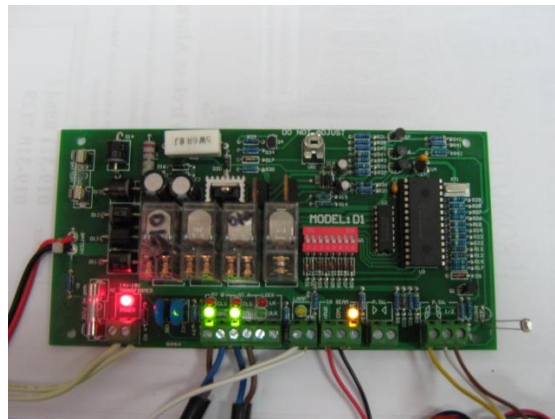


Figure 2: Lamp Relay is Not Activated when Lamp Photocell is exposed to Light.

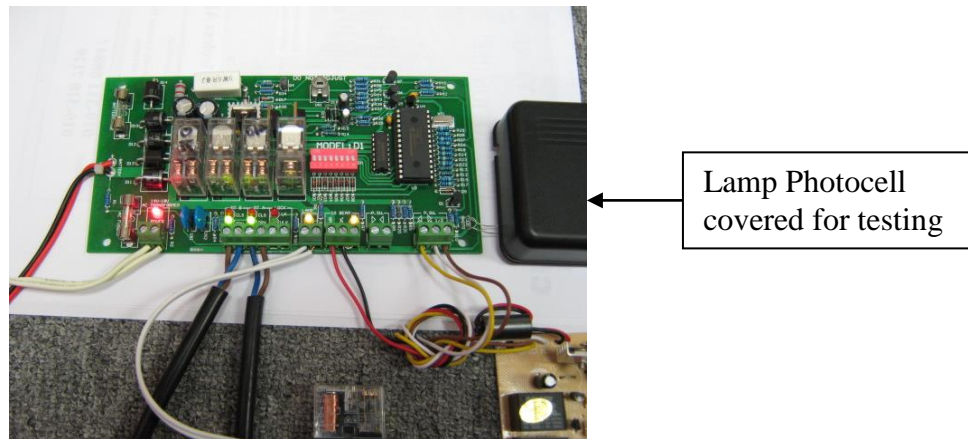


Figure 3: Lamp Relay Activated when Lamp Photocell is covered.

Typical placement of the Lamp Photocell is shown in Figure 4. Please note however, that due to the different lighting intensity, direction of lights, reflection etc in the Control Panel Box, it is possible that that Lamp Relay is activated even if the external ambient is significantly bright.



Figure 4: Point Lamp Photocell to the Side Gills of the Supplied Box for Ambient Light Detection.

DIP 3 [ON], 4 [ON] == Lamp Deactivated (for solar setup power saving).

DIP 3 [ON], 4 [OFF] == Lamp Permanently ON. You can have your gate-pillar lights stay ON at night then turn OFF when sun comes up.

One method to verify of the LAMP output is ok, is to Set DIP #3 to [ON] and DIP #4 to [OFF] position. Power up the D1 board with the Backup Battery / Transformer Then cover the Lamp Photocell with a BLACK cover ensuring complete darkness at the photocell. (a marker pen cover closing the sensor is a suggestion) The LED at the Lamp Relay should then Light Up.