



SOLAR PANEL ALARM

FEATURES

It is especially useful for photovoltaic solar panels, although it can also be used in other applications. In the case of the panels, the idea is to place an electric cable between a group of panels through the holes in the frames and connect them to the terminals 3 and 4. You can use a cable with cross-section between 0.2 and 1 mm².

When connected at 12 volts of continuous electrical current, the program evaluates the cable characteristics that need to be installed. The intermittence of the green led light indicates is proper functioning. In this way, if a sudden variation of the characteristics should occur (the cable is cut off or a jump start is made), the device will detect it and activate the alarm. The red led light will lighten up with intermittence and the relay will be activated for a capacity of 2 amps where what is desired can be connected.

The alarm device and its supply must be in a non humid, safe place so that it can not be deactivated. It has an approximate consumption of 0.15 W (3.6 W per day).

There is also the alternative of having an inverse logic which means that the relay is connected permanently until the alarm goes off. To achieve this, we must connect the “jumper” located in the centre of the panel which is disconnected most of the time. Since the red led indicates that the relay is connected, this led will always be lighted.

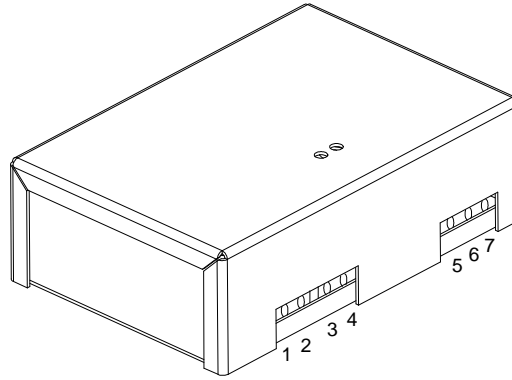
INSTALLATION SUMMARY

1- From the connection terminals 3 and 4, place a cable with cross-section between 0.2 and 1 mm² and have it go through all the frames of the panels so that the panels cannot be removed without cutting the cables.

2- Connect from the terminals 5 and 7 whatever will function as the alarm (light, telephone to the police, siren, central alarm....). If you have it on inverse logic, connect it to the terminals 6 and 7. Maximum connection intensity: 2A.

3- From a normal power supply of continuous electrical current of 12 volts, connect the negative and positive cables to the terminals 1 and 2 respectively.

The alarm has been properly connected and it will be activated if the circuit is opened or when jump start is made. One it has gone off you can deactivate it by unplugging it and return to plug in.



Things to take into consideration

It is not recommendable to supply it directly from a charger or a power source. The use of a battery is preferable for providing at all times the power required.

It is not recommendable to put more than 80 meters of cable in the loop.

It is not recommendable to place the loop cable in the same tube or next to other cables. This may induce an electrical current, provide inappropriate measures and therefore activate the alarm.

Trackers Feina,
Fàbrica el Molinet s/n
08250 Sant Marti de Torruella
(Barcelona)
Tel:93 8361827 / 93 8751001
feina@tracker.cat
<http://www.tracker.cat>

