Insele Solar Switch

Peak Solar Detection Switch for Improved Solar System Management

Thank you for purchasing the Insele Solar Switch, with this device we will help you to optimise and make the most out of your solar system. The Insele Solar switch is proudly designed and made in South Africa.

Box Contents:

In the box you will find:
1x Insele Solar Switch (DIN Mount)
1x Solar Sensor with loom

Solar Sensor Mounting:

The Solar Senor should be placed as close as possible to the Solar Panels, facing the unobstructed midday sun, where it appears in the winter months (when the sun is the weakest). This is the North facing side of a structure. For optimal readings the sun light must not be obscured by any trees or other structures. The sensor is mounted with 4 screws points. See Figure A
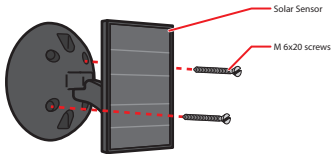

Solar Sensor

M 6x20 screws

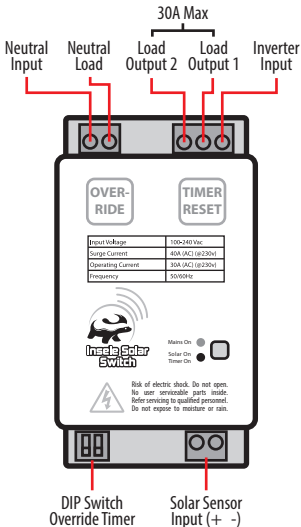Figure A

Solar Switch Installation:

Installation should be done by an authorised installer and should be evaluated by a competent person for installation within the Solar Inverter System.

Connect All Neutral connections to the N bus. Connect the Live from the DB Board & timer to the INV IN Connector. Connect to the load Live wire to the Load Out connector 1 or 2.

The solar sensor must be connected to the Sensor connector with correct polarity: Black wire with white stripe = "+", Black wire only = "−"

Operations:

Operation is extremely simple and only requires that the switch and solar sensor are properly installed. The switch will then connect the Inverter/Solar power to the load unless there is inadequate solar energy.

Neutral Input

Neutral Load

30A Max

Load Output 2

Load Output 1

Inverter Input

OVER-RIDE

TIMER RESET

Input Voltage	100-240 Vac
Surge Current	40A (AC) (@230v)
Operating Current	30A (AC) (@230v)
Frequency	50/60Hz

Insele Solar Switch

Mains On

Solar On
Timer On

Risk of electric shock. Do not open.
No user serviceable parts inside.
Refer servicing to qualified personnel.
Do not expose to moisture or rain.

DIP Switch
Override Timer

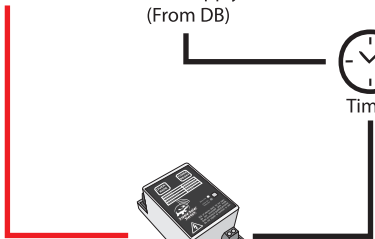Solar Sensor
Input (+ -)

PV Sensor

Solar Supply
(From DB)

Timer

Load

Override Timer Operations:

The override timer is designed to allow the load to run at any time but needs to be configured prior to the installation as in the case of most installations, the selector switches will be concealed behind the face plate of the DB board once installed.

The timer can be set based on the switch positions indicated in the table:

Minutes	SW 1	SW 2	Switch
120	Off	Off	
60	On	Off	
30	Off	On	
24	On	On	

Contact:

For more information on the this product and more please visit our website

www.insele-solar.co.za