

LiteSUN Plus EASY

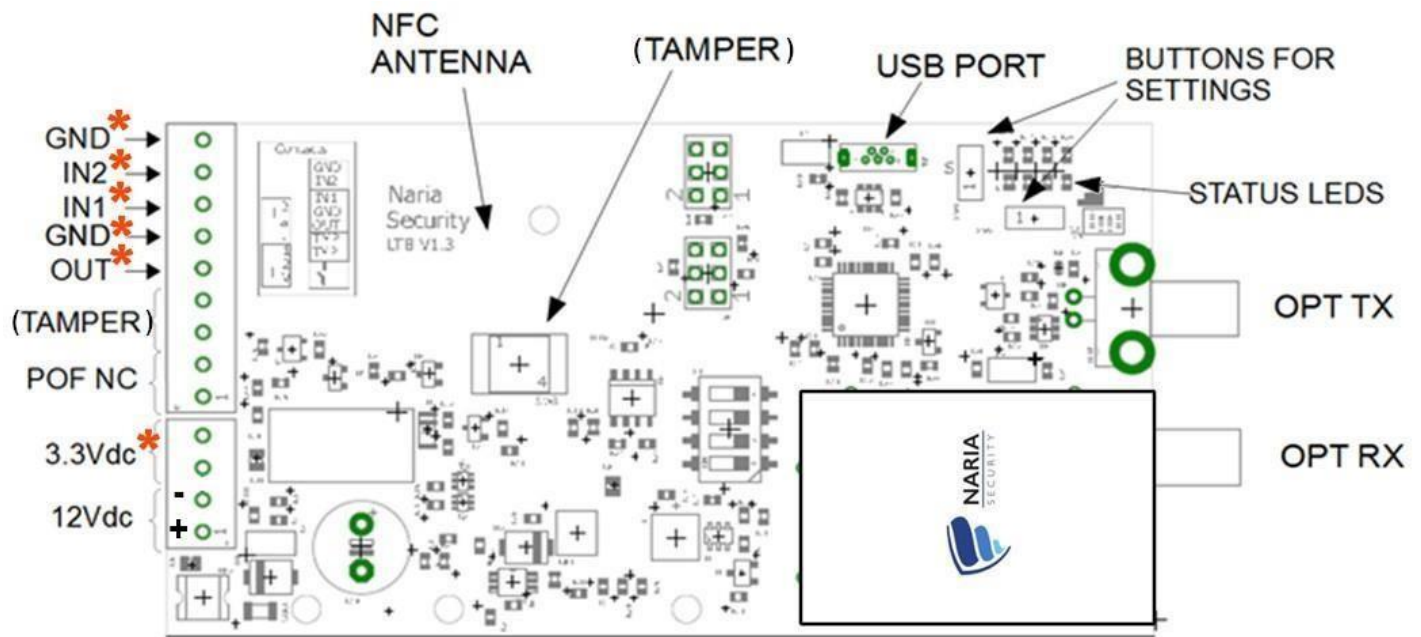
***SECURITY DEVICE OVER PLASTIC OPTICAL FIBER FOR THE
PROTECTION OF SOLAR EQUIPMENT***

DATASHEET



LiteSUN Plus EASY
analyser (Tx+Rx)
LSUN300P11ES

Reference figures



*These connectors are for future functions

The board is normally in an IP55 casing with mechanical opening sensor, so the tamper sensor on the board is not used.

Technical specifications

LiteSUN PLUS EASY

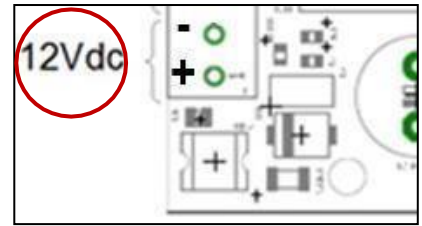
Protection rate	IP55; IK07; glow wire temperature:750°C
Operating range	0-150m (max 15dB) <i>This distance can be reached if the installation is carried out correctly (attenuation of the fiber lower than 0.1dBm at 525nm). Bends, passages on edges, misplaced or over-tightened cable ties and mechanical stresses on the fiber can increase the attenuation of the optical signal, reducing, even considerably, the maximum operating range, even preventing the system from working correctly.</i>
Optical power budget	15dB
Alarm relay output	2A/220 Vdc NC
Power (DC)	12VDC / (120mA peak when switching on)
Operating temperature	-20° +70° C
Humidity	from 5 to 90%
Consumption at 12VDC	70mA
Anti-tampering sensor	mechanical
Weight and dimensions in IP55 casing	670g 210x160x85mm
Optical connector	FSMA connectors
Immunity to EMI/RFI	EMC 2014/30/UE

Power supply must be no more than 15 watt

How to connect the fiber to the board and power it.

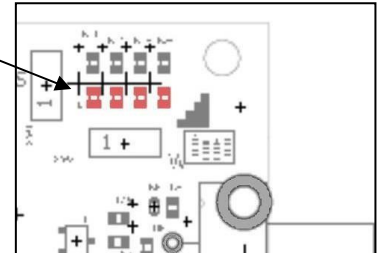
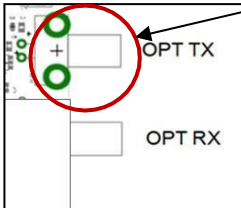
Connect the board to power.

To avoid damaging the board, make sure it is not powered before touching and handling it.



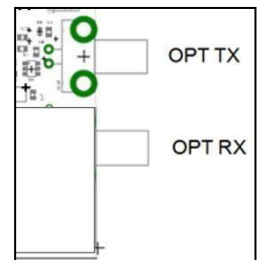
Power: 12Vdc Consumption: 70mA

When you connect the board to power, the status LEDs will twinkle and the LED on the transmission port will glow.



TIP:

First insert one end of the fiber into the TX port: you will see vivid green light coming out of the other end. If not, there will probably be an installation mistake: make sure that the fiber cable is installed correctly, no overtightened cable ties, nothing pressing the fiber, no sharp bends... Then connect the other end to the RX port: the analyser sets up automatically in 30 seconds and is fully operative: all status LEDs are off.



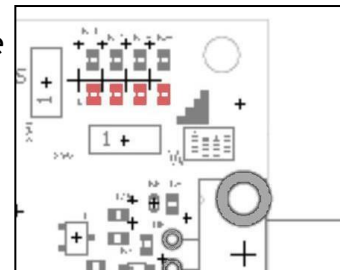
From this moment on, the transmission port (TX) emits a codified light signal which runs through the plastic optical fiber and arrives at the receiving port (RX). The analyser will continually control the power of the signal received. When the device detects a difference in power, due to cable cut or bends on the fiber, an alarm will go off.

Status LEDs

The analyser is in alarm status whenever the fiber is cut, bent or stretched out.

When there is an alarm, the status LEDs twinkle and the alarm lasts 40 seconds (i.e. alarm contact remains open for 40 seconds). If the fiber cable is cut, LEDs will go on twinkling until the cable is repaired and the loop closed.

The status LEDs also twinkle when the fiber loop is not closed. When the board is normally operative, the status LEDs are off.



Buttons for settings

The board parameters are already set: the system is “**plug & play**” and pre-set values are suitable for most cases.

Button “A” controls sensitivity.

Press once to see current sensitivity: a steady LED glows as listed below.

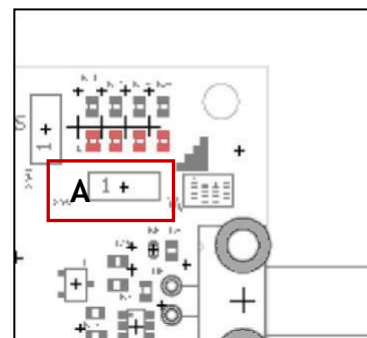
x000= low sensitivity

0x00= medium low sensitivity

00x0= medium high sensitivity (default, used in most cases)

000x= high sensitivity

Press twice to change sensitivity



Button B controls time window.

Press once to see current time window. a LED twinkles as listed below.

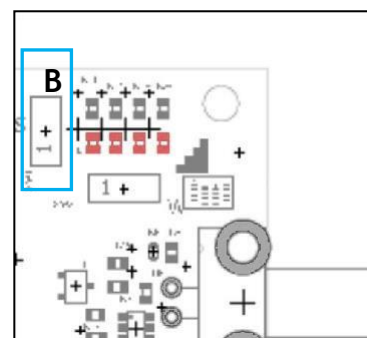
x000= long

0x00= medium-long (default)

00x0= medium-short

000x= short

Press twice to change time window*.



****Before changing any default settings for time window,
please contact Naria Security!***

Naria Security srl

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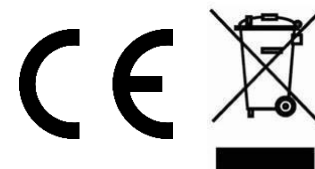
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