

# Conversion of a Sonoff ZBMINI ZigBee 230V switch to 5V supply with potential-free relay contact

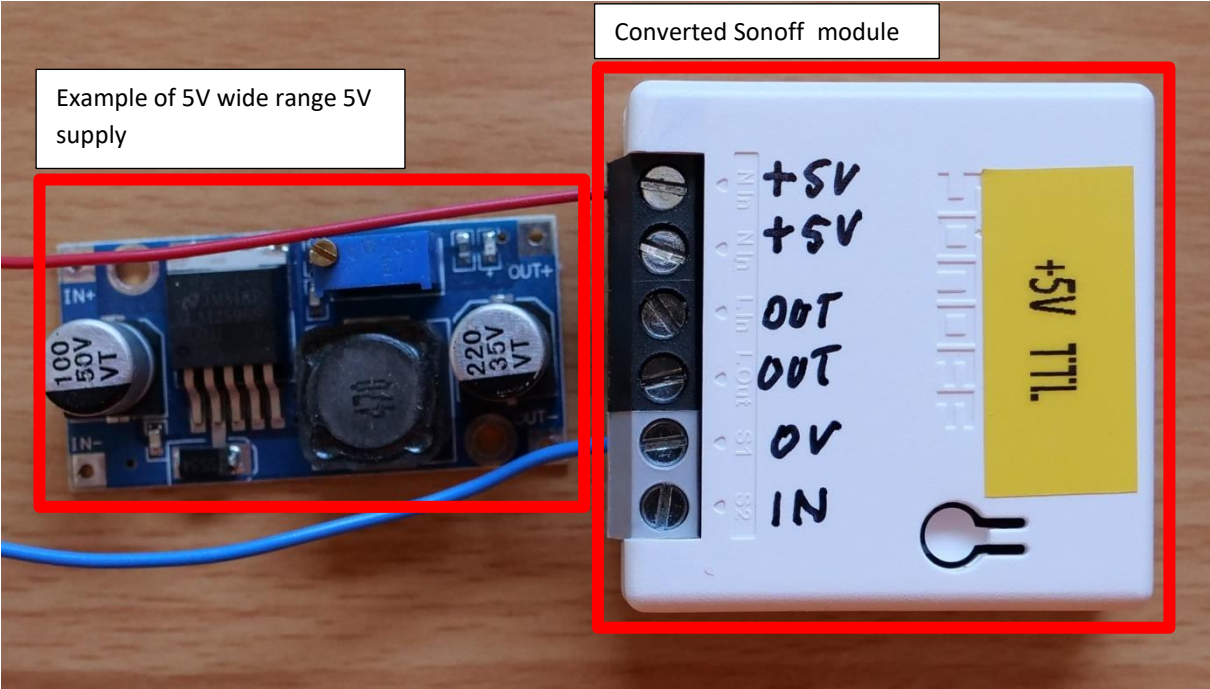
The ZigBee switch should no longer be supplied with 230V AC and switch its 230V AC supply to the output for power supply. Instead, the module should be supplied with 5V and switch a potential-free contact.

**ATTENTION: The module must then NO longer be supplied with 230V!** However, it can still switch up to 230V via the potential-free contact.

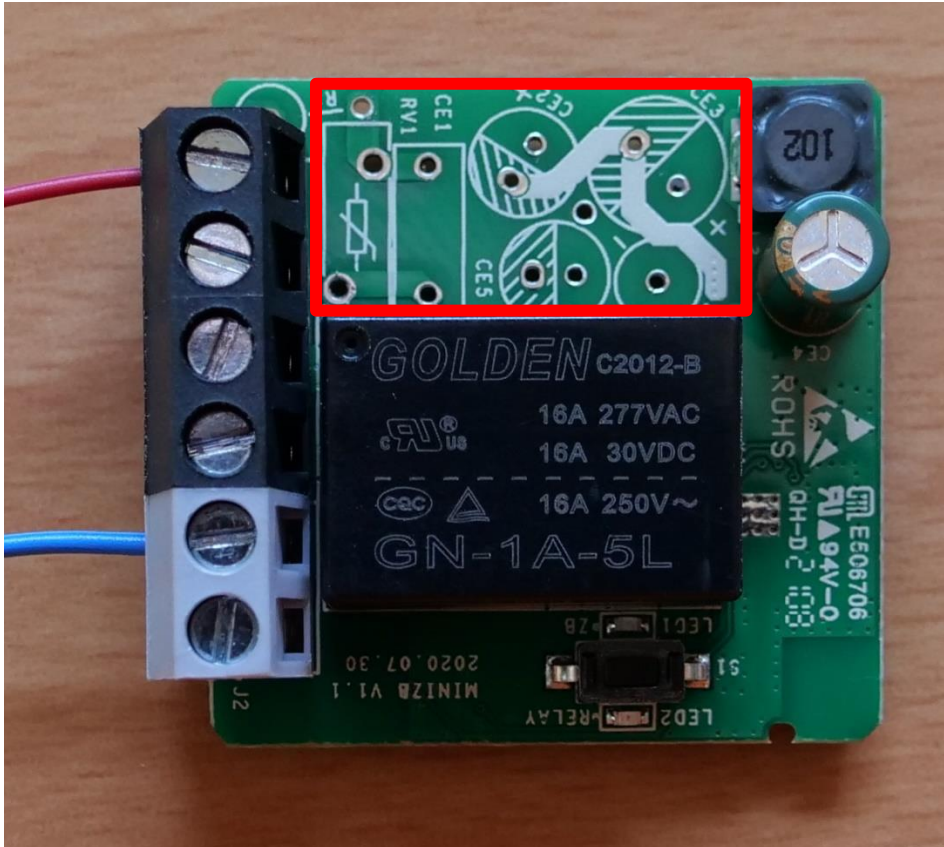
The Sonoff ZBMINI module :



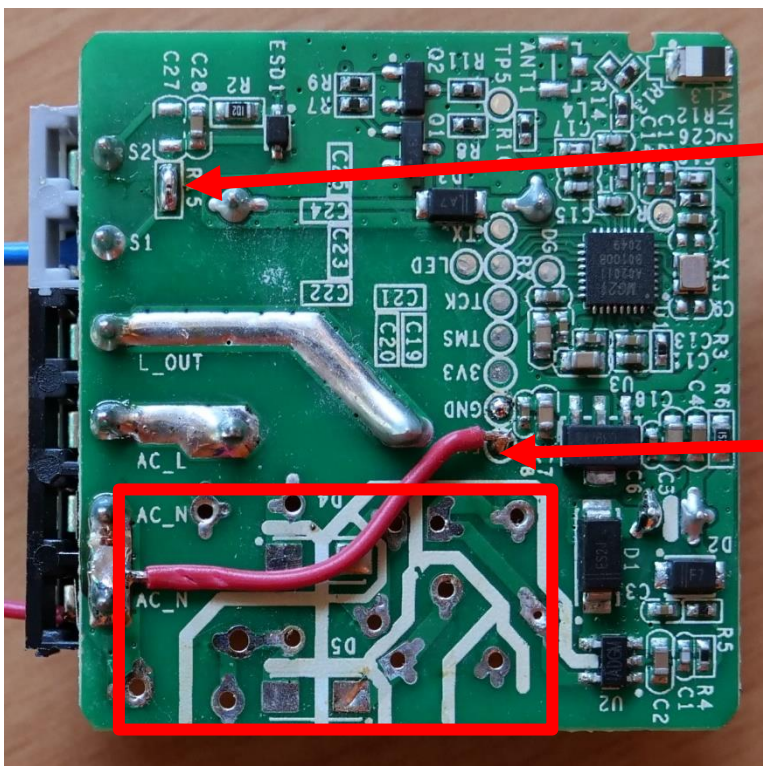
The module AFTER the conversion to 5V supply.



Removal of all components concerning the 230V connection on the TOP side of the board.



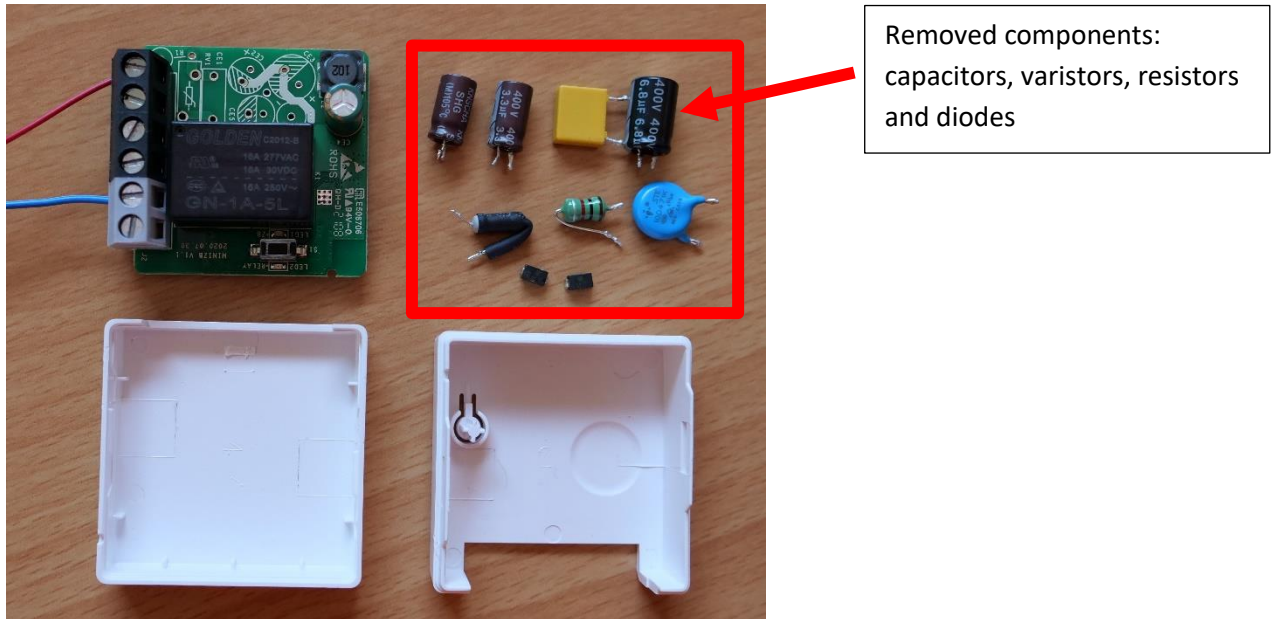
Remove the two diodes on the BOTTOM side of the board



Remove the 10R resistor and replace it with 0 ohms, because the 0V power supply is connected here.

Connect the 5V power supply line to the two AC\_N terminals by a red wire.

Removed components:



Removed components:  
capacitors, varistors, resistors  
and diodes

New assignment of the module:

terminal	function
1	+5V, VCC (max. 100mA)
2	+5V, VCC (max. 100mA)
3	OUT1
4	OUT2
5	0V, GND
6	IN

**Power consumption:**

5V, 13mA / relay not switched

5V, 55mA / relay switched

OUT1 and OUT2 represent the potential-free relay output contact.

The contact is not connected to the power supply!

With each pulse against 0V on IN, the output contact toggles.

Otherwise, the module behaves as originally described.