

## Assembling the peripherals module

### Things you will need

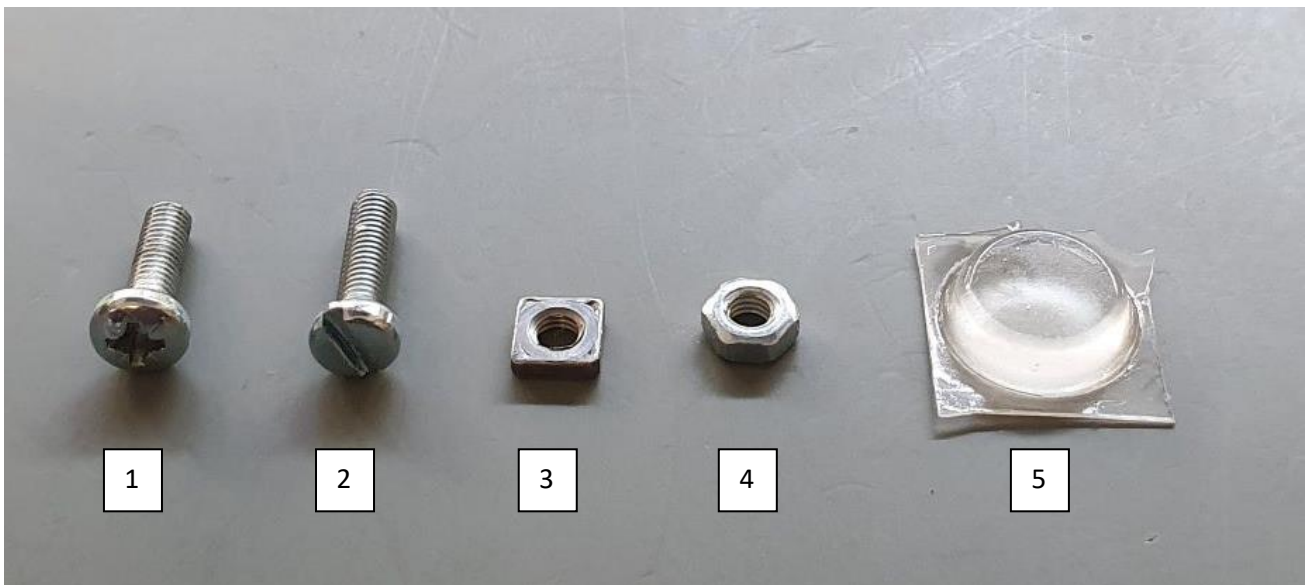
- Assembled board
- GPS module BE-220 or BN-220 (older)
- PIR module HC-SR501
- Connection cables:

ID	Qty	Wires	Comment
GPS	1	4	Board RX to GPS TX, Board TX to GPS RX
PIR	1	3	

⚠ **Double-check the pin order and polarity of all connections before you power up the device.**

- 3D printed case parts
- Additional parts:

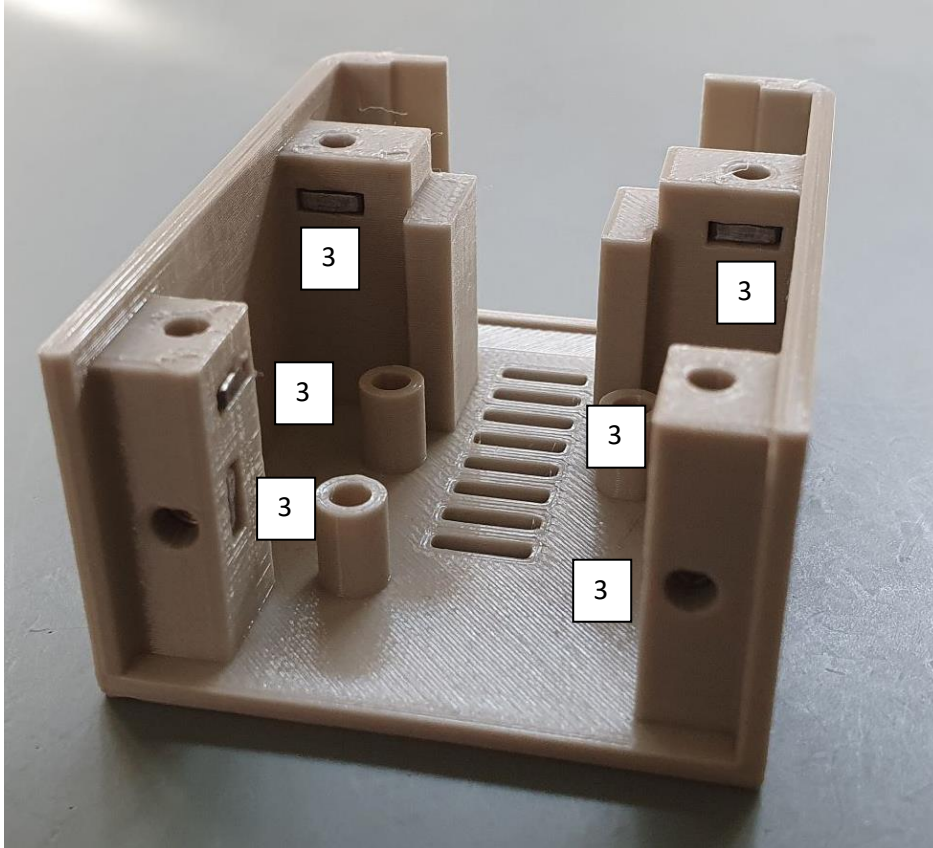
ID	Qty	Description	Comment
1	6	Pan head screw, 10mm, M3	
2	3	Screw, 12mm, M3	
3	6	Square nut, M3, 5.5 x 5.5 x 1.8mm, DIN 562	
4	3	Hex nut, M3, DIN 934	
5	4	Rubber foot	



## Assembly

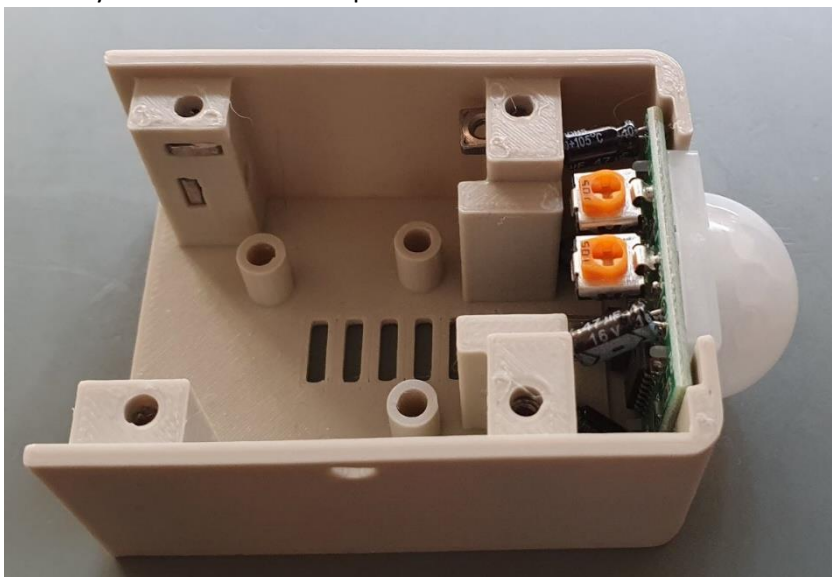
⚠ Make sure you don't overtighten the screws.

Place all square nuts



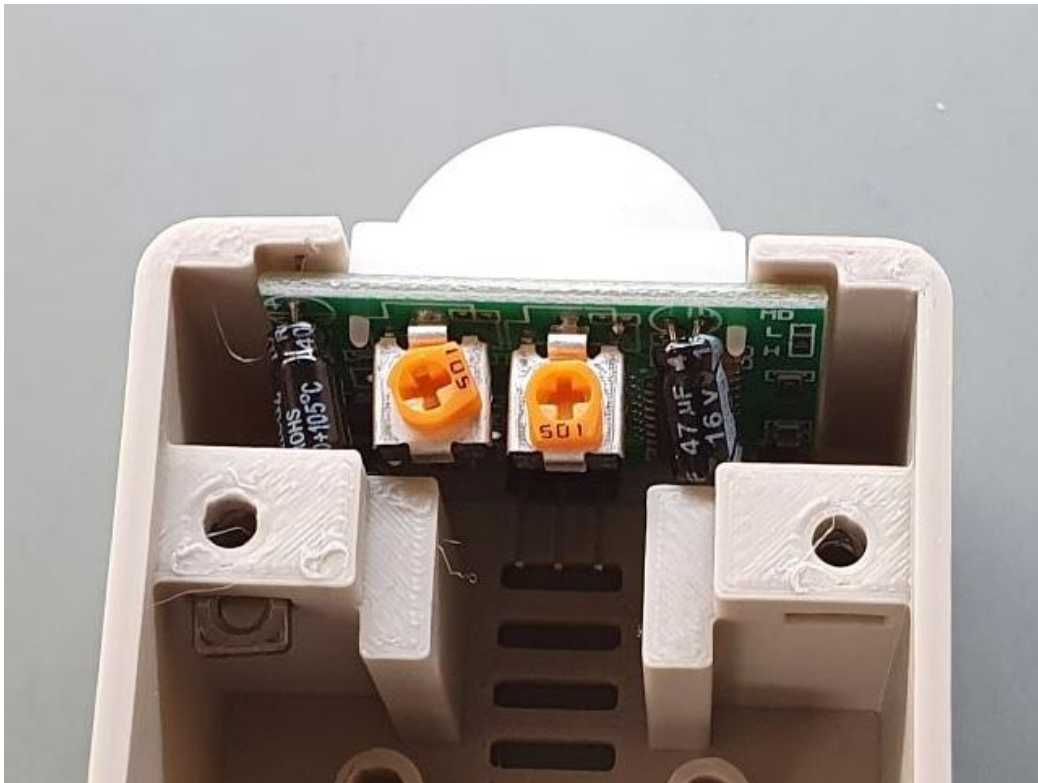
Insert the PIR module

You may need to bend the capacitors a little bit.

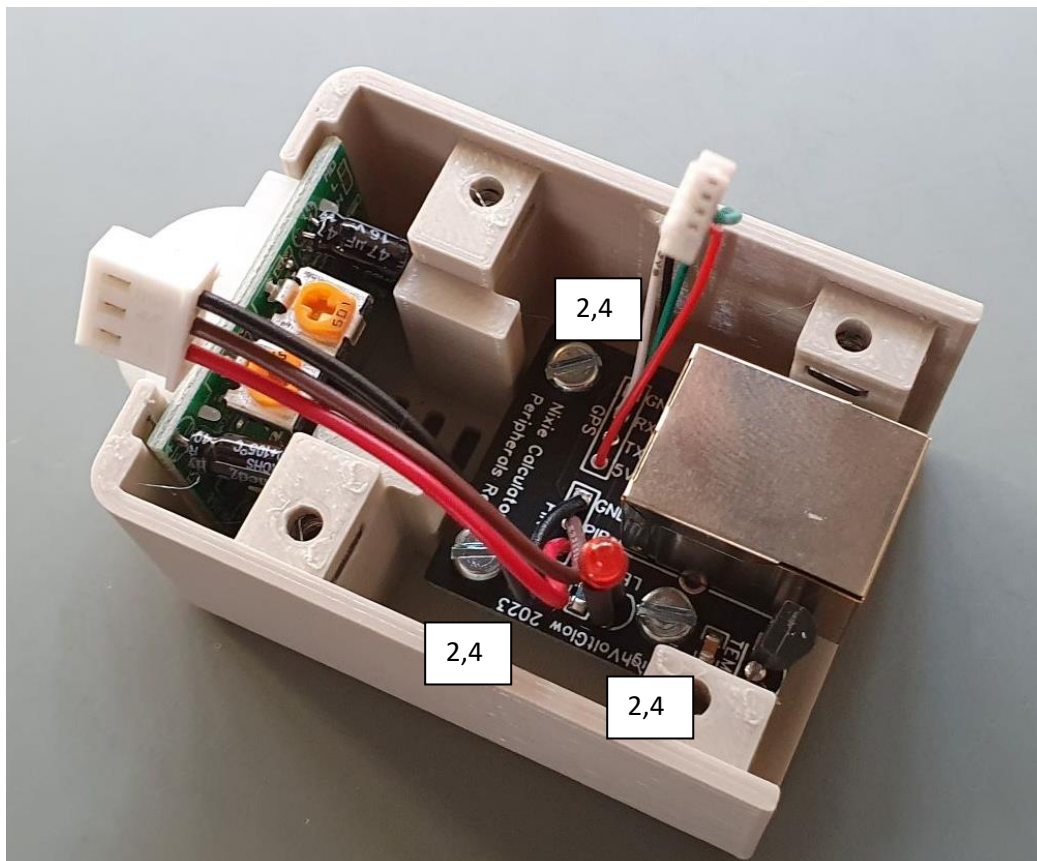


Adjust the variable resistors as shown in the picture

Always adjust the variable resistor on the left for the shortest hold time. The effective hold time is defined in the settings of the calculator. The variable resistor on the right adjusts the sensitivity.

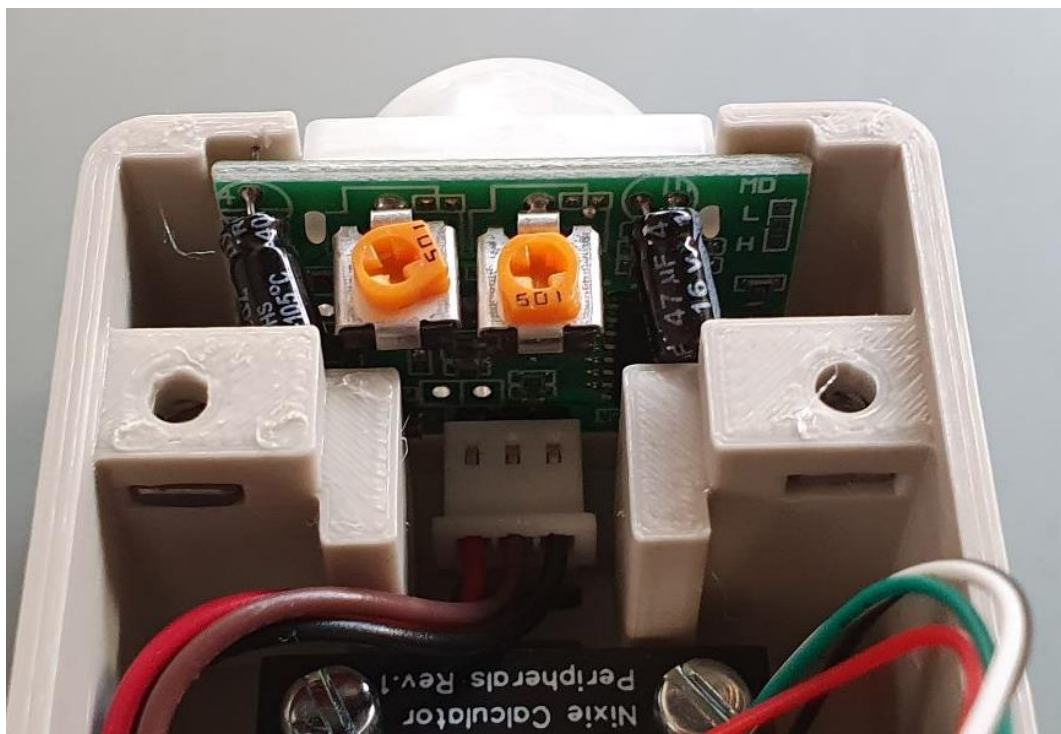


Mount the board

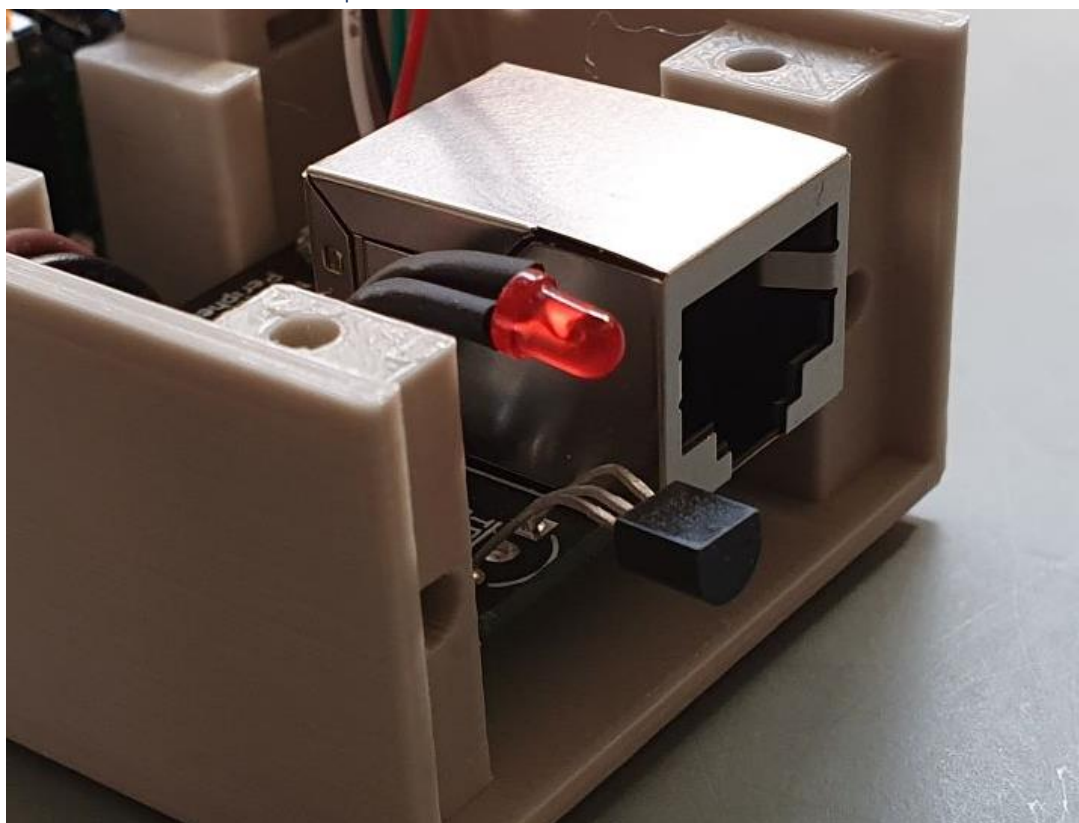




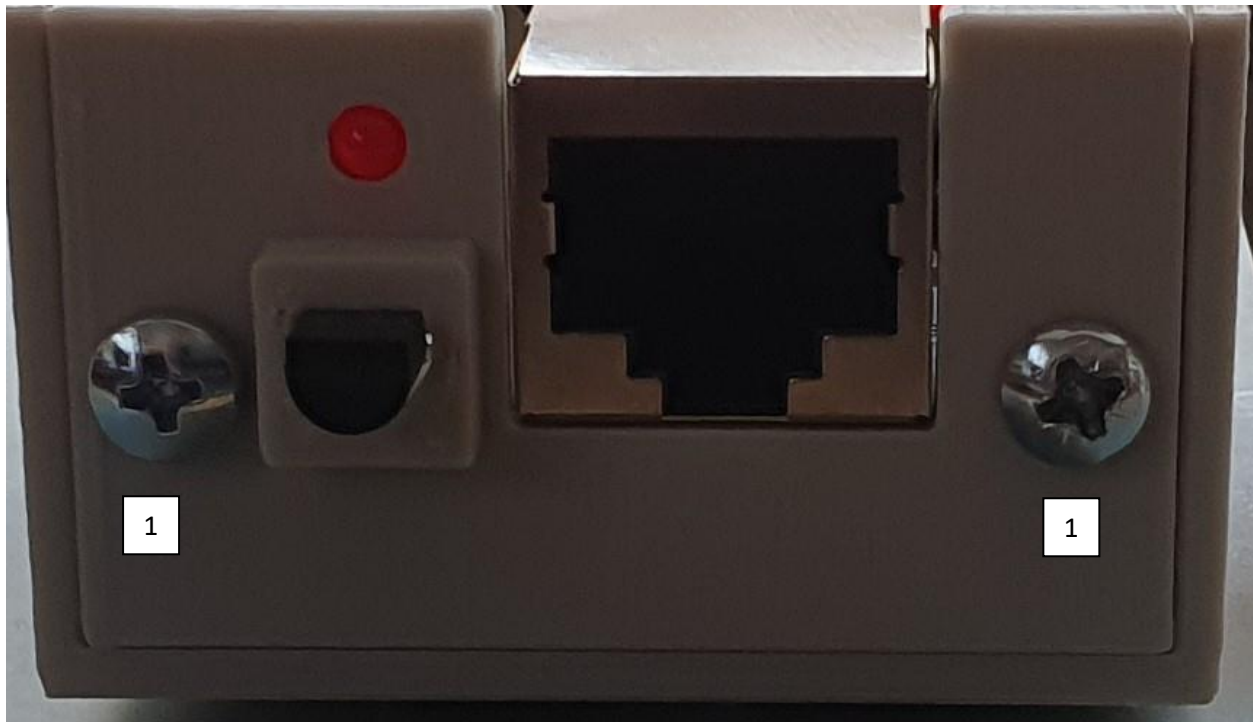
Connect the PIR module



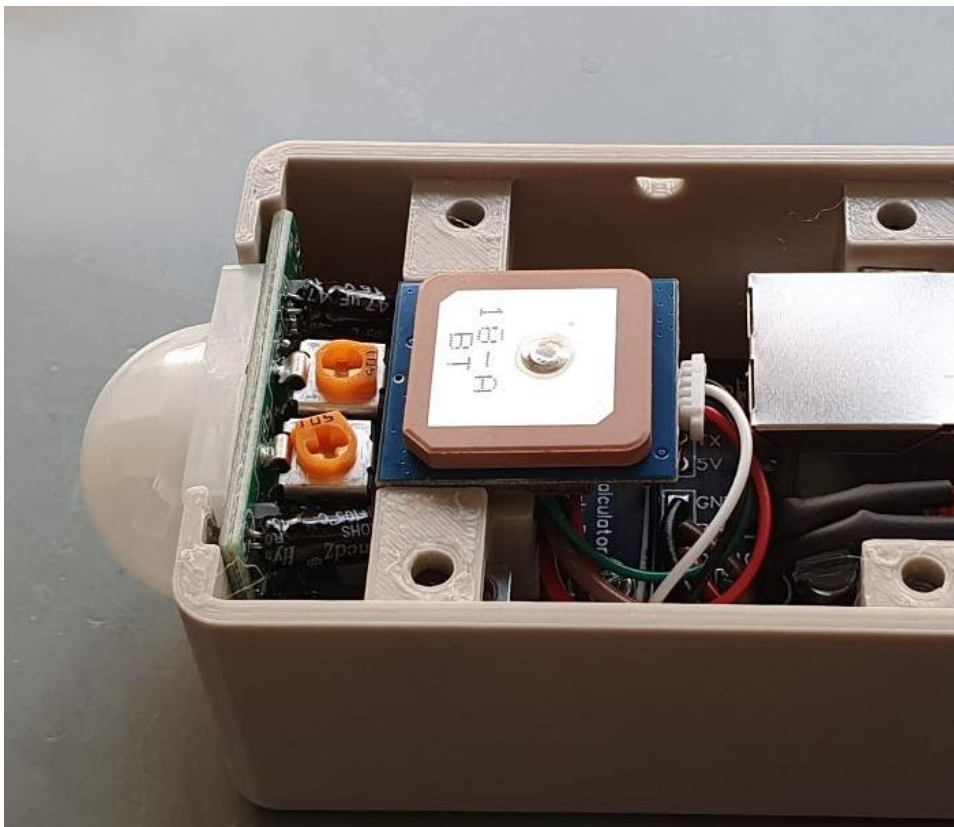
Bend the LED and the temperature sensor



Install the back shield



Connect and place the GPS module



Install the top shield



Place the rubber feet

