**Conductivity sensor**

**Power**
2 AA batteries and holder. Use double sided tape to stick to trunking.

**Electrical trunking 100x38x25 (LxWxH) NOT SELF ADHESIVE STUFF!**

**Holes**
2 x 5mm holes 25mm and 1 x 3mm hole 15mm from this end.
You can use a drill bit or a number 1 & 2 cork borer.

**Carbon fibre rod electrodes**
Same as you find in kites 2-3mm in diameter about 85mm long.

**Red LED**
At least a 5mm LED but 12mm LED is a nicer size. Hint! If the LED isn’t lighting when it should check the polarity, long leg is positive.

**4mm Panel sockets**
Solder wires to washer washer like connector

**Resistor**
Cut one lead short (25mm) and solder a 47ohm resistor to it if you are using a red LED.

**Parts list:**
- Electrical trunking 100x38x25 (LxWxH) NOT SELF ADHESIVE STUFF!
- AA batteries x2, holder and double sided tape
- 47 ohm 1/4W resistor x 1
- Carbon fibre rods - 2-3mm dia 85mm long
- Crocodile clips and leads - x2
- Self locking connector or 3A terminal block
- M3 x 20mm screw and locking nut
- LED at least 5mm but 12mm is better
- 4mm Panel sockets x 2

**Wire**
Use the other end of the cut wire to make negative connection

**Connector**
Self locking connector or 3A terminal block
Links

Electrical trunking 100x38x25 (LxWxH) NOT SELF ADHESIVE STUFF!
https://www.toolstation.com/mini-trunking-3m/p12544

AA batteries x2, holder and double sided tape

47ohm 1/4W resistor x 1

Carbon fibre rods - 2-3mm dia 85mm
https://tinyurl.com/yeryc6et

Self locking connector or 3A terminal block
https://www.rapidonline.com/truconnect-3a-12-way-terminal-block-21-0100
https://tinyurl.com/ypcjr8wc

M3 x 20mm screw and locking nut
https://www.toolstation.com/phillips-pan-head-machine-screw/p81190
https://www.toolstation.com/nylon-lock-nut/p93093

LED at least 5mm but 12mm
https://www.rapidonline.com/kingbright-l-813id-10mm-red-led-high-intensity-55-0300
https://www.rapidonline.com/Catalogue/Search?Query=5mm%20led&Size=20&Tier=5mm%20LEDs

4mm Panel sockets
https://tinyurl.com/5bx4s3x6