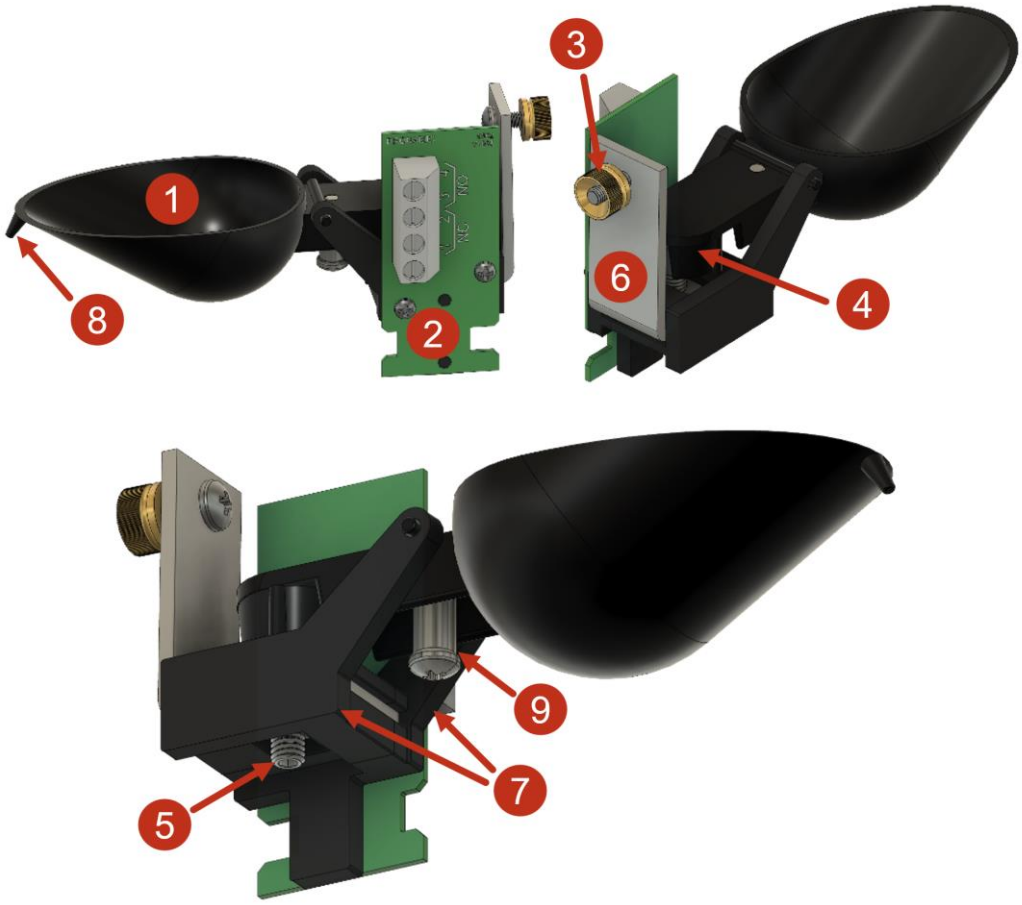
Single Spoon Tipping bucket

General description of the Single Spoon Tipping Bucket



1. Self-emptying bucket made of POM
2. PCB with reed switch
3. Screw to hold the entire unit
4. Magnet
5. Adjustment screw
6. Angle brackets
7. Holder for bucket
8. Drip catcher
9. Counter-weight

POM

The spoon is made of POM (polyoxymethylen). This is used due to its water repellant properties, for ensuring the best performance.

PCB

The electronic printed circuit board with individually tested and high-quality reed switches protected against extreme weather conditions such as extreme frost or heat. This include corrosion from salt water due to the PCB is coated with weather-resistant varnish.

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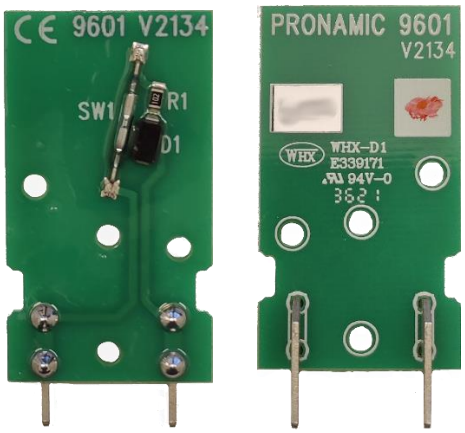
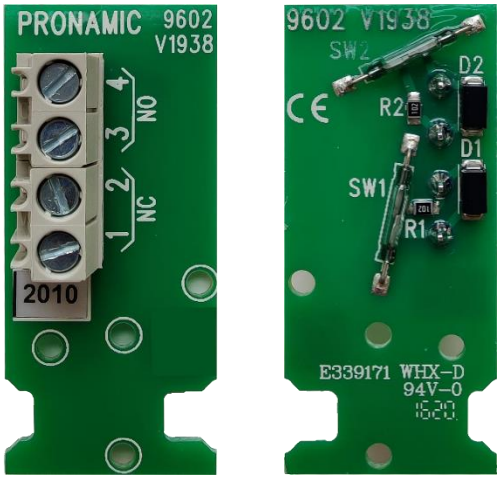
The PCB comes in two versions:

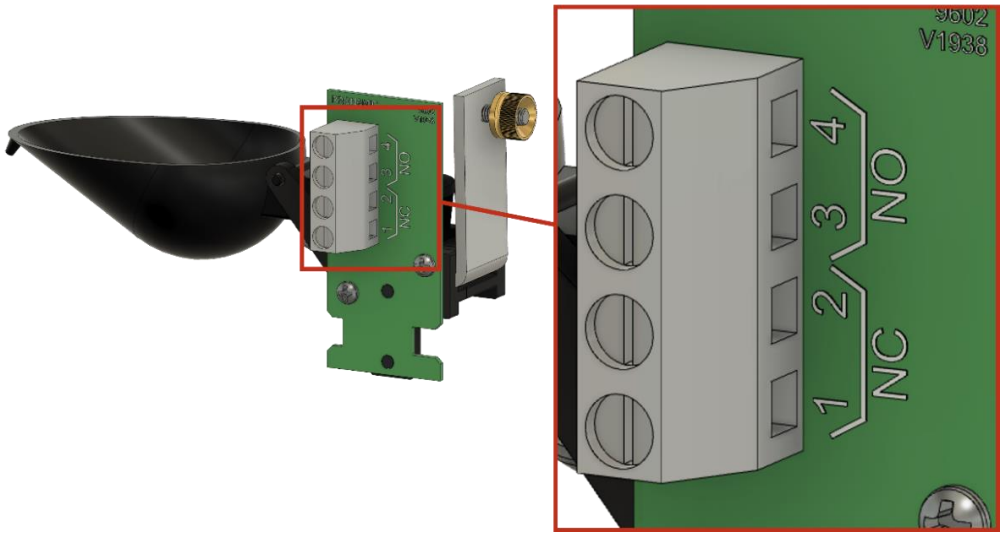
PCB No. 9601
NC: normally closed. Two male spade connecters and 1 reed switch connected in series with a 1K ohm 1/4W resistor and a TVS-diode in parallel.

Spade connector size:
Width: 2.8 mm Thickness: 0.8 mm

PCB No. 9602
One Screw Terminal with 4 connections:
1-2 NC: Normally closed 3-4 NO: Normally open.
Two separated circuits. Each with one reed switch connected in series with a 1K Ohm 1/4W resistor and a TVS-diodes in parallel.







Typical switching times for PCB 9602

Spoon	Terminal 1-2 NC	Terminal 3-4 NO
2ml	443ms, σ =14mS	352ms, σ = 14mS
4ml	307ms σ, = 12mS	278ms, σ = 12mS
5ml	326ms σ = 11mS	301ms, σ = 12mS
10ml	322ms, σ = 7mS	305ms, σ = 8mS

σ = Standard deviation

Filter design: Max 200msec recommended.

Accuracy:

+/- 2%