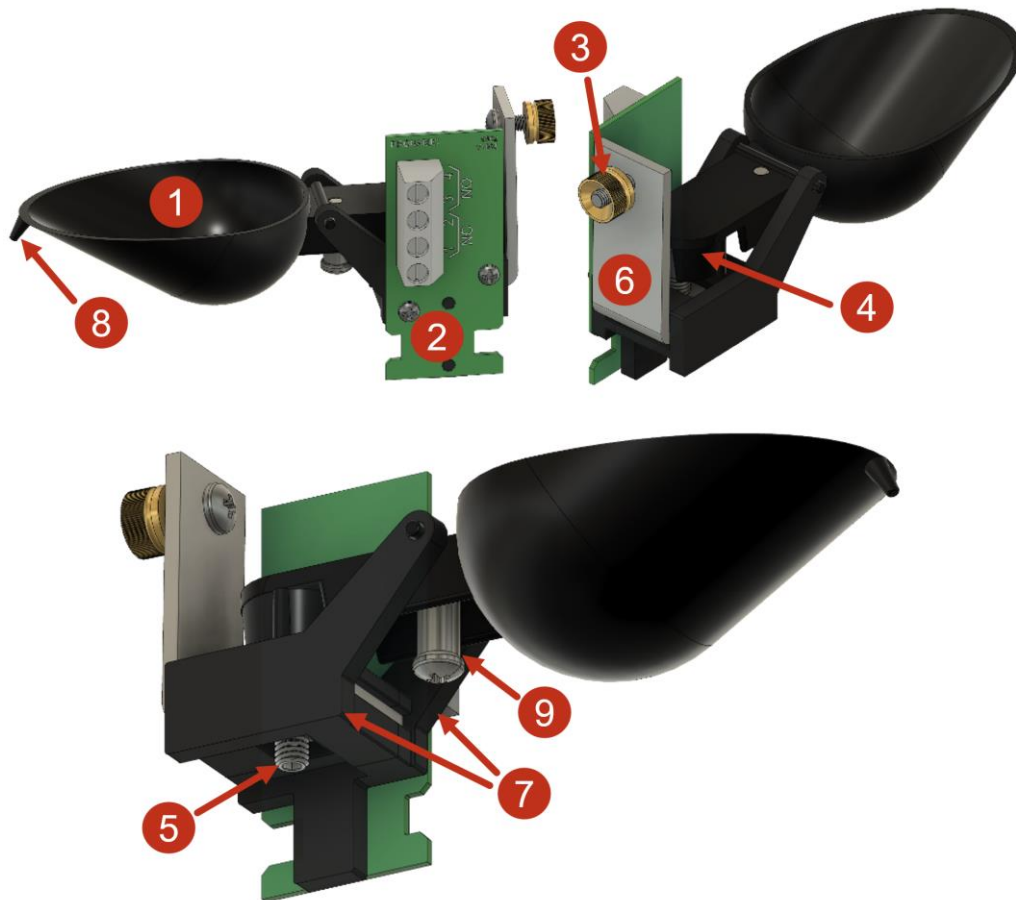


Single Spoon Tipping bucket

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 repellent 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.

Single Spoon Tipping bucket

The PCB comes in two versions:

PCB No. 9601

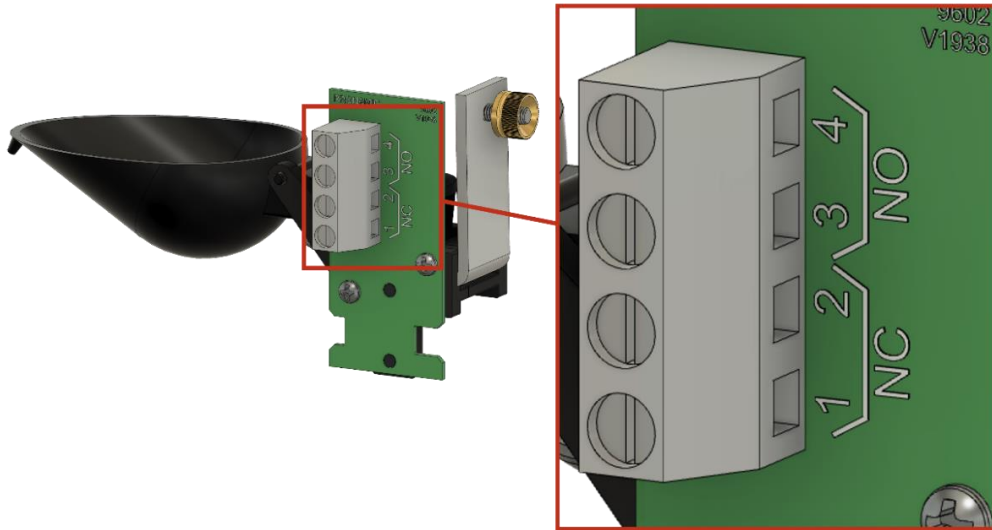
(NC—normally closed) has male spade connection and 1 reed switch with a 1K resistor in series.

Spade connector size:

Width: 2.8 mm Thickness: 0.8 mm

PCB No. 9602

1/2 = NC—Normally closed, 3/4 = NO—Normally open. Terminal strip with 4 connections/2 outlets and Two reed switches with a 1K resistor in series. Two TVS diodes in series as overvoltage protection.



Typical switching times for PCB 9602

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

σ = Standard deviation

Filter design: Max 200msec recommended.

Accuracy:

+/- 2%