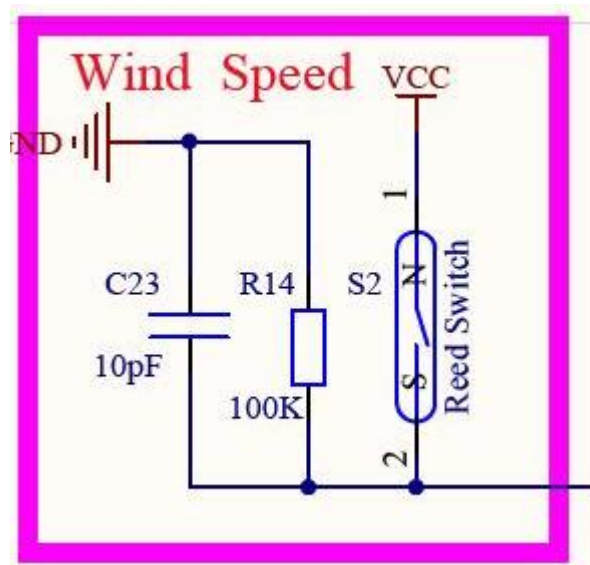# Wind speed sensor

According to the times of the reed switch is turned on to calculate the wind speed.

The magnet inside the Wind speed unit can make the reed switch turn-on, resulting in pulse output. Since the coefficient (C2) of the Wind speed unit and the frequency (F2) of the pulse are already known, then the Wind Speed (V2) is:

$$V2=F2*C2$$

1. if the wind speed data is 5: (1 rotation =2 counts)
   wind speed = 0.34*5 = 1.7m/s
   wind speed mean is current wind speed.
2. if the gust speed data is 6:
   gust speed = 0.34*6 = 2.04m/s
   wind speed mean is max wind speed for a period of time.