**Part 1:**

Maximum pulse rate:

RPMMotor: 129 (155 RPM @ 6V)

RPSMotor: = 2.15

Time of Revolution: = 0.465 s

Time of Revolutionwith Gear: = = 0.00465 s

Encoder Reflectors: 14

Encoder Puls Time (between Highs): = 332.23 µs

**Encoder Puls Rate** = = 3009.96 Hz

Encoder Puls Change Time = = 166.115 µs = **Minimum Time between samples**

**Messungen:**

**8 periods from 265 us to 5850 us =685 us**