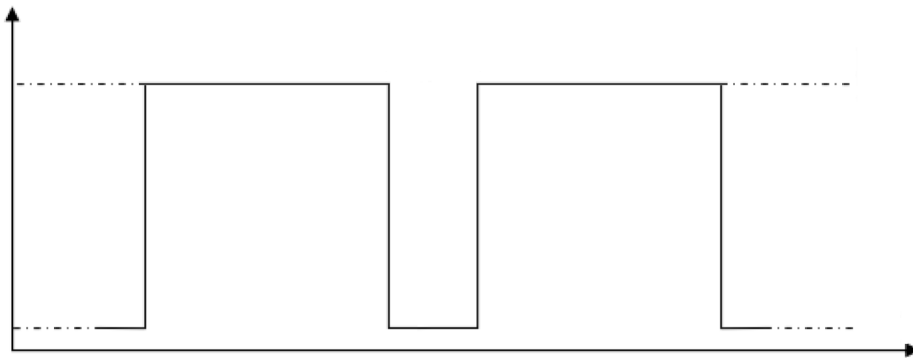


Pierburg CWA Pumps

Pierburg's PWM interface for the CWA pump range.



Input frequency:

50 Hz -1000 Hz

Input level:

- Power supply → $U_b = 8$ to $16V$
- PWM high → Min $0.6 U_b$ / Max $U_b + 3V$
- PWM low → Min $GND - 3V$ / Max $0.4 U_b$

Note:

To ensure the pump awakes correctly an uninterrupted high pulse of 3ms must be applied.

(For example: 50% duty at 150 Hz)

Duty Cycle:

- 0 – 1% → Stop
- 1 – 7% → Emergency running (about 95% speed)
- 8 – 12% → Stop / Error Reset
- 13 – 85% → Controlled operation from min to max speed
- 86 – 97% → Maximum speed
- 98 – 100% → Emergency running (about 95% speed)