

HOMEWORK GROUP 3

Summary:

1. Low Beam requirements:

- Ignition switch must be already ON, then the Low Beam switch turned ON, OR Low Beam switch already ON, then the Ignition Switch turned ON
- Low Beam must be ON within max. 500ms of meeting all conditions and sending the requests

2. Position Lights requirements:

- low beam switch or position light switch is ON
- outputs must be ON in max. 500ms since the requests are sent and all conditions are met

3. Turn Flasher requirements:

- ignition must be ON and flasher input is activated
- if the input is active for more than 3 flashing cycles, the flasher is ON as long as the input is active (with an 800ms period, which has a dark phase of 400 ms)
- if the input is active for less than 3 flashing cycles, the output flashes 3 times only (with an 800ms period, which has a dark phase of 400 ms)

Block Diagram:

