Hello Hai

We received the proposal from the customer on Car Hit Detection. These will overwrite ITX5 and ITX6 so you do not need to work on ITX5/6.

1) The customer has request to remove the seconds counter display and replaced by 2 & 3 described below. Additionally, the last character of the second line on LCD will display "C" permanently when calibration is done.

2) Car Reverse Switch (We assume that the car hit is working here)

DIP SW5 is turn off (PIO0\_11 is high). Car hit will make the barrier move up till LM\_UP is reached. Once the down or SEN2 signal is detected, the barrier will move down.

DIP SW5 is turn on (PIO0\_11 is low). The 6th & 7th characters of the first line on LCD will display "CR". Car hit will make the barrier move up till LM\_UP is reached. It will stay up until 2 down or 1 SEN2 signal is detected. Then it will move down.

3) Sensor Reverse Switch

DIP SW6 is turn off (PIO0\_2 is high). This is for the SEN1 detect. This setting is for existing behaviour.

DIP SW6 is turn on (PIO0\_2 is low). The 4th & 5th characters of the first line on LCD will display "SR". After SEN1 is detected, the lever will move up till LM\_UP is reached. The barrier will only goes down after the SEN1 is released and another new down signal is detected.

Example for above 2 & 3

2x16 LCD

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| U | P |  | S | R | C | R |  | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| **x** | **.** | **x** | A |  | 3 | S |  | N | **-** |  | s | N | O |  | C |

4) Press SW3 will reset the cycle counter. I understand you do not need SW3 for programming, right?

5) Press SW1 will initiate the calibration process for the car hit current. Press and hold SW1 for more than 5s will reset the calibration process. Detail please refer to the attached

6) Attached is the proposed car hit algorithm from the customer. Customer wants to use VR7 to reduce the sensitivity of the car hit by "increasing" the current difference; actually by "fooling" the software. Explanation is given in the attached. So you need to mount VR7 and recalculate the resistor bridge such that the mcu which is a 3V3 part can handle the higher voltage. During production, VR7 will be set to the highest resistance. CK has sent you the variable resistors last time but I think it is a 100K part. Please check if you can use this or need to change to other values. Please let us know if the proposal is feasible.

Can you provide a date when you can release the new software for above requests please?

Thank you.