

Connecting the Blocks

Left Motor Control

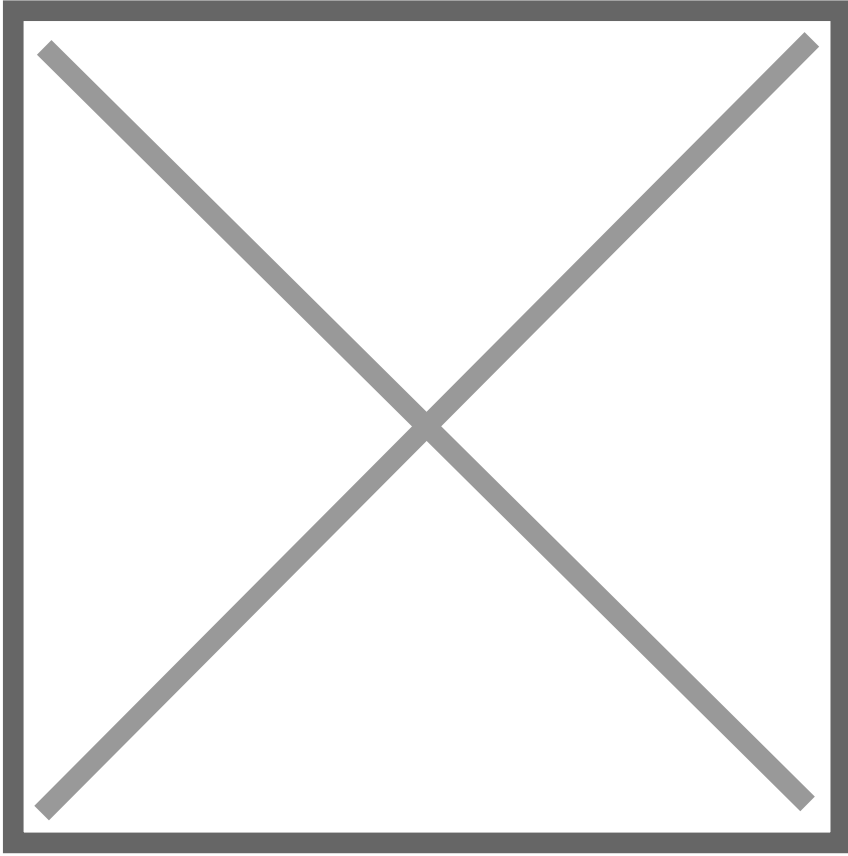
- Input:
 - IO69 (left line sensor) connects to the select input of the first demux2.
 - The constant value 1 is connected to the in input of the demux2.
- Outputs:
 - outa: Connected to IO57.
 - outb: Connected to IO56.
- How it works:
 - If the left sensor detects no line (select = 0), the constant 1 goes to outa (IO57).
 - If it detects the line (select = 1), the signal is routed to outb (IO56).

Right Motor Control

- Input:
 - IO68 (right line sensor) connects to the select input of the second demux2.
 - The constant value 1 is connected to the in input of the demux2.
- Outputs:
 - outa: Connected to IO55.
 - outb: Connected to IO54.
- How it works:
 - If the right sensor detects no line (select = 0), the constant 1 goes to outa (IO55).
 - If it detects the line (select = 1), the signal is routed to outb (IO54).

General Behavior

- The demux blocks determine which motor action is taken depending on the line detection:
 - outa and outb can be configured to drive the motor forward, reverse, or stop depending on the control logic applied externally (e.g., H-bridge control).



Revision #1

Created 17 March 2025 12:28:25 by Caroline

Updated 17 March 2025 12:29:22 by Caroline