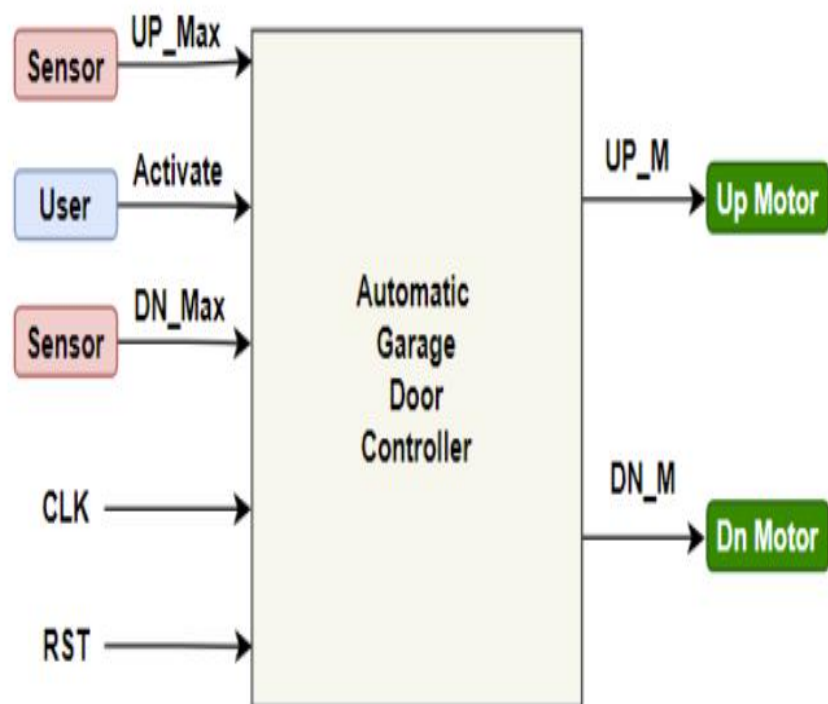


Automatic Garage Door Controller

Block Interface: -



Specifications: -

- The **Controller** has 3 inputs: -
 - **Activate** push button (user) trigger the Up motor when the **Door** down and trigger the Down motor when the **Door** Up
 - UP_Max (Sensor) becomes high when the **Door** is completely open.
 - DN_Max (Sensor) becomes high when the **Door** is completely close.
 - Always the **Door** is completely close or completely open.
 - Finite state machine is initialized to IDLE state using **Asynchronous** reset

States Diagram: -

IDLE state: it is the default state & reset state of the finite state machine.

Mv_Up State: it is the state to enable the up motor to open the garage door

Mv_Dn state: it is the state to enable the down motor to close the garage door

