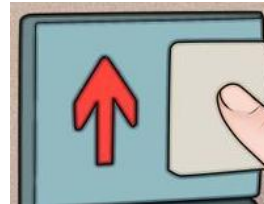


Two Floor Simple Elevator System (Basic)

Assumptions:

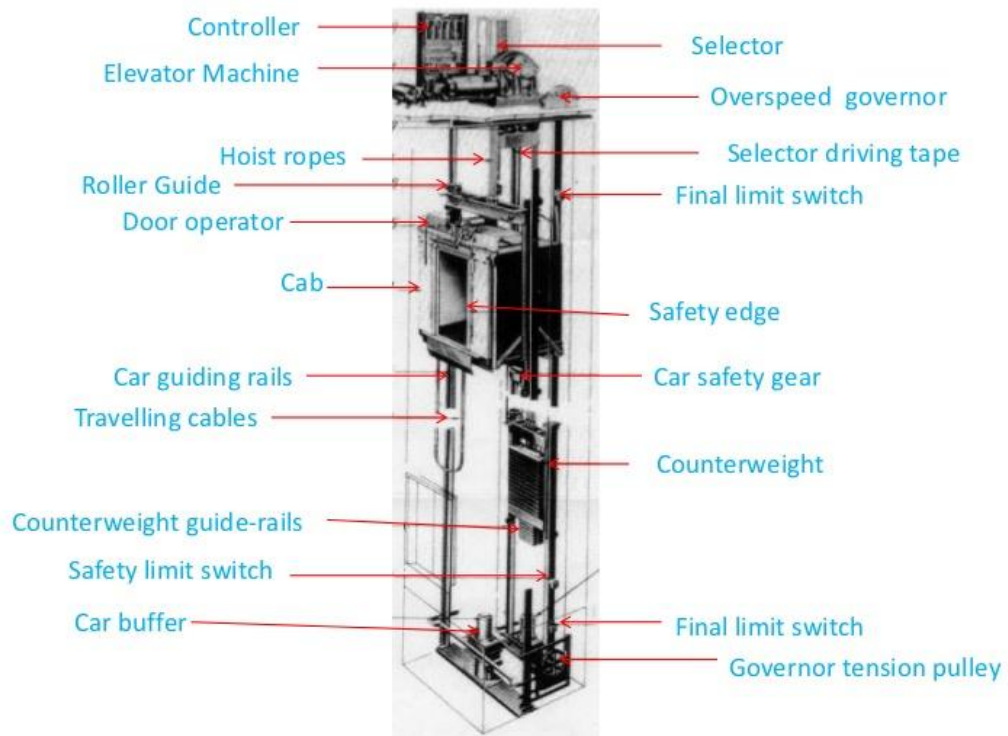
- Lift door is manual sliding type. A door switch is provided to ensure the door is properly closed.
- In first Floor there is only Down Call Button



- Inside Lift, there are Both up and down buttons
- In Ground Floor there is only Up Call Button



Elevator Diagram: A Typical Overhead Traction Elevator



PLC Ladder Diagram

Inputs:

Function	Address
Up Call Button at Ground Floor	I:1/0
Down Call Button at First Floor	I:1/1
Up Button inside Elevator	I:1/2
Down Button inside Elevator	I:1/3
Door Switch (closed when door closed)	I:1/4
Elevator up limit switch	I:1/5
Elevator down limit switch	I:1/6

Outputs:

Function	Address
Lift Motor Upward Direction	O:1/0
Lift Motor Downward Direction	O:1/1
Ready to open door indicator Ground Floor	O:1/2
Ready to open door indicator First Floor	O:1/3
Ready to open door indicator inside Lift	O:1/4

