State Machine Diagram for elevator subsystems.

Idle

door open
press floor button
light the corresponding lamp

—press down[waiting door open]—

—press up[waiting door open]→

door open
press floor button
light the corresponding lamp

—colse door[nobody press down again]/close—

—colse door[nobody press up again]/close—

Door Closed

Started

Moving

Keep Moving To Requested Floor

Approached Requested Floor / Stop

Stopping

Stopped/ Open door

Door opening

Turn the lamp off

Door opened/ start timer

At Floor

After[Timeout]/ Check Next Destination

Checking

Down Request

UP Request

No more Request

Idle