SMART ESCALATOR OPERATION FLOWCHART

Press Start button to begin the operation.

Proximity Sensor 1, Proximity Sensor 2, and Motor is active and on standby condition

If Proximity Sensor 1 detect people walking, it send signal (HIGH). If not, it does not send signal (LOW)

Indicator Lamp will lights up and the motor will runs.

If emergency button is pressed, it send signal (HIGH) and turn off the motor and the indicator lamp. If not, it does not send signal (LOW)

If Proximity Sensor 2 detect people walking, it send signal (HIGH). If not, it does not send signal (LOW)

If stop button is pressed, it send signal (HIGH), turn off all the system, and end the operation. If not, it does not send signal (LOW)

START

Press START BUTTON (H)

Two sensors & motor standby (L)

First Sensor detect people
No (L)
Yes (H)

Motor and Indicator Lamp ON (H)

Emergency Button is pressed?
Yes (H) → Indicator Lamp & Motor OFF (L)
No (L)

Second Sensor detect people
No (L)
Yes (H)

Wait for 5 second

Stop Motor (L)

Stop button is pressed?
No (L)
Yes (H)

END