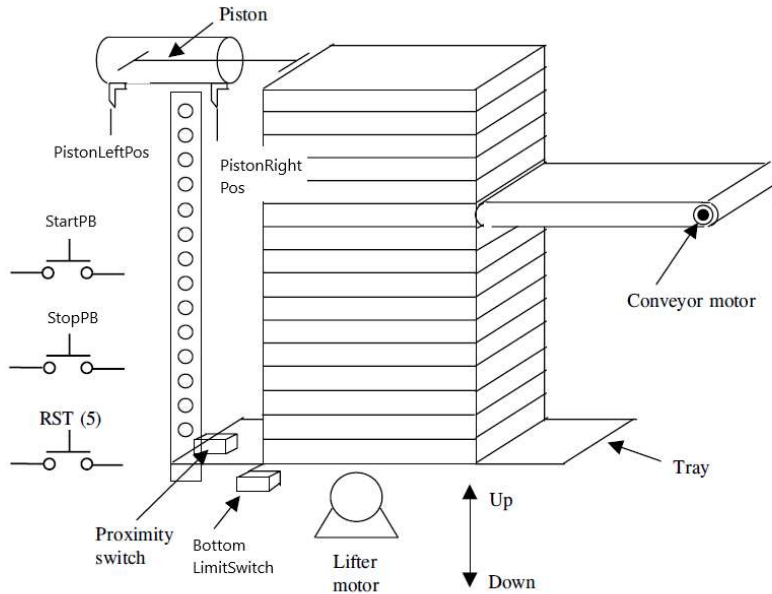


Tray Packing Conveyor



The Lifter motor is used to lift a tray of PCB up, before being pushed by the piston onto the conveyor for packing.

When the start button is pressed, the conveyor motor and the lifter motor will turn on.

The proximity switch will temporarily stop the lifter motor for the piston to push the PCB onto the conveyor belt.

After the PCB is pushed, the piston will retract and the lifter motors starts again.

The whole procedure will repeat itself.

When all PCBs have been pushed onto the conveyor belt, the lifter motor will move down until the limit switch is being activated. Thereafter, the whole procedure can only be started by the start switch.

```

1  PROGRAM MAIN
2  VAR
3      // push buttons
4      StartPB: BOOL;
5      StopPB: BOOL;
6      ResetButton: BOOL;
7
8      // sensors
9      BottomLimitSwitch: BOOL;
10     ProxSwitch: BOOL;
11
12     PistonLeftPos: BOOL;
13     PistonRightPos: BOOL;
14
15     // HW outputs
16
17     ConveyorRun: BOOL;
18     LifterUp: BOOL;
19     LifterDown: BOOL;
20     LifterStop: BOOL;
21
22     PistonMoveLeft: BOOL;
23     PistonMoveRight: BOOL;
24
25     // Aux. objects
26     rtBottomLS: R_TRIG;
27     rtIndexPcb: R_TRIG;
28
29     tondelayLifterUp: TON;
30     tonDelay1sec: TON;
31
32     rtPistonLeftReached: R_TRIG;
33     ctuPistonLeftMovements: CTU;
34 END_VAR
35

```

