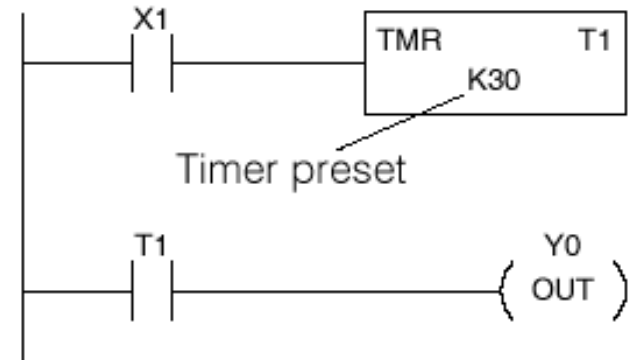
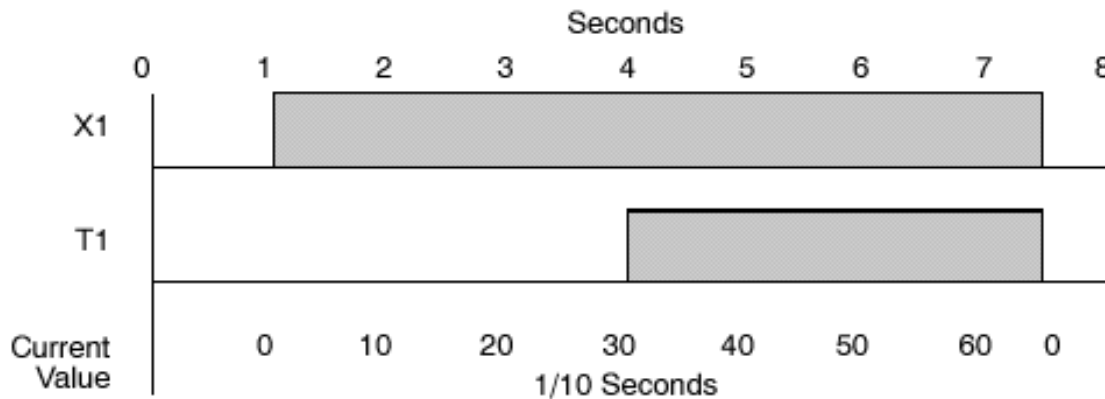


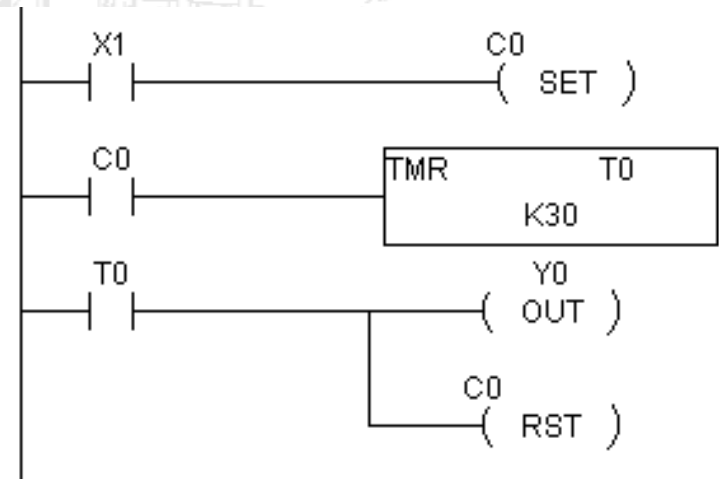
TIMERS - TMR AND TMRF



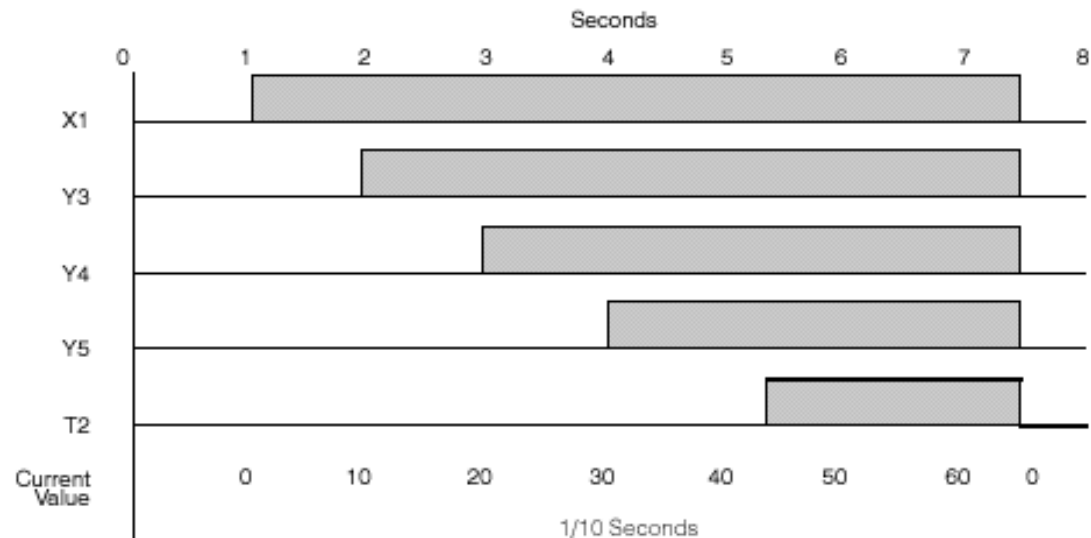
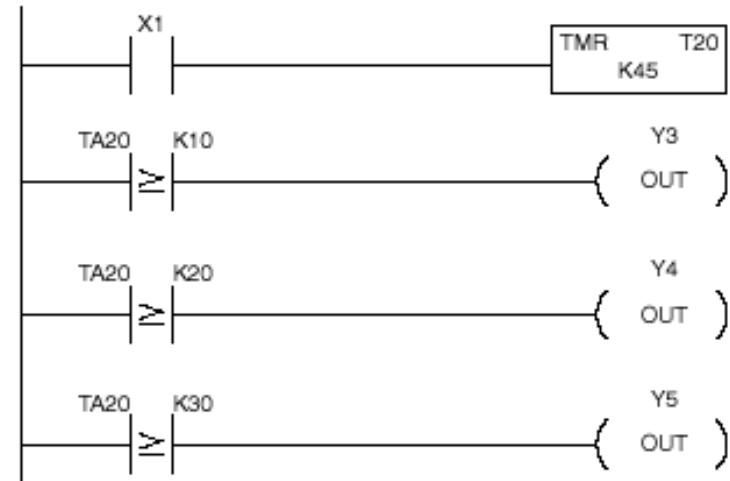
Latch timer input if it may go low before timeout!

TMR: 0.1s to 999.9s

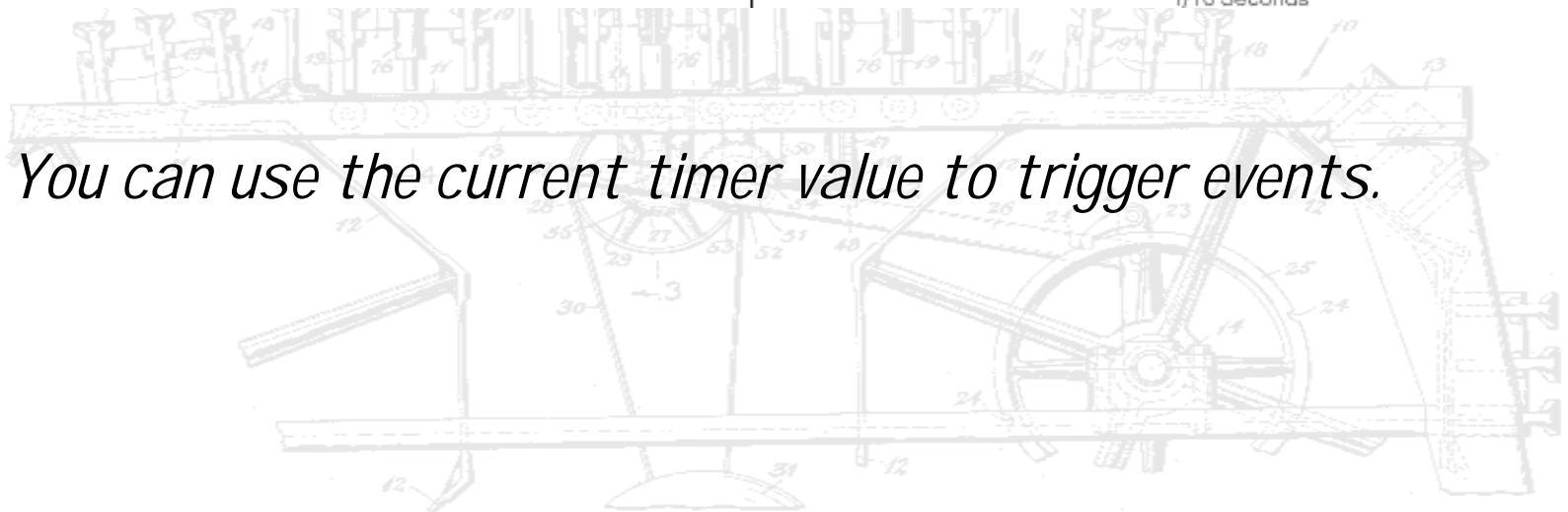
TMRF: 0.01s to 99.99s



TIMERS - TMR AND TMRF



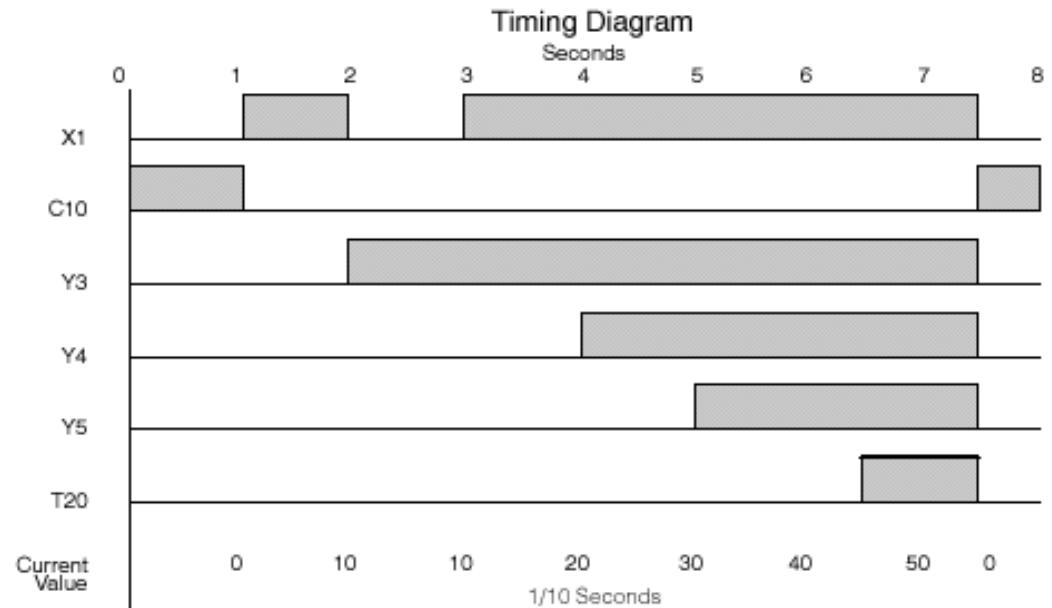
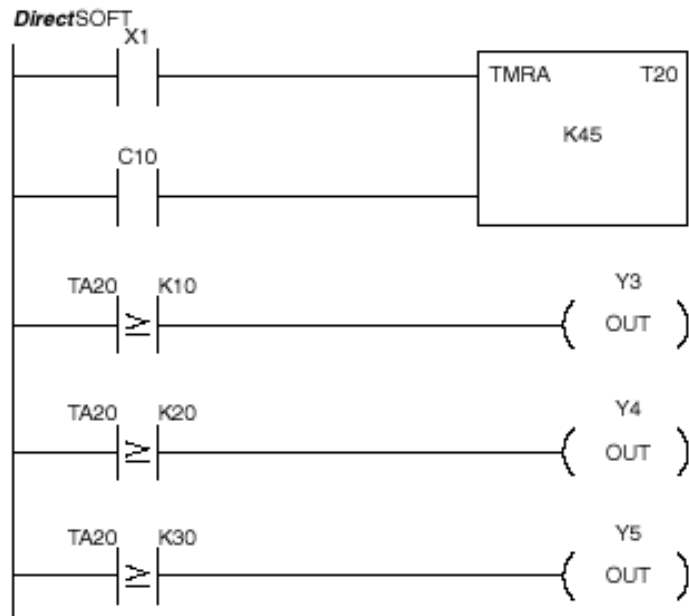
You can use the current timer value to trigger events.



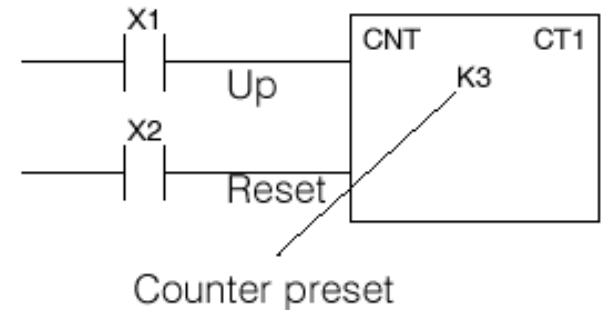
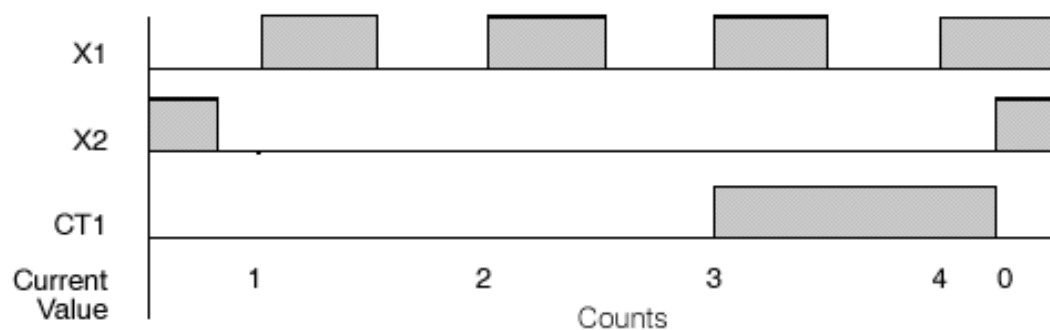
TIMERS - TMRA AND TMRAF

Accumulative Timer (TMRA)

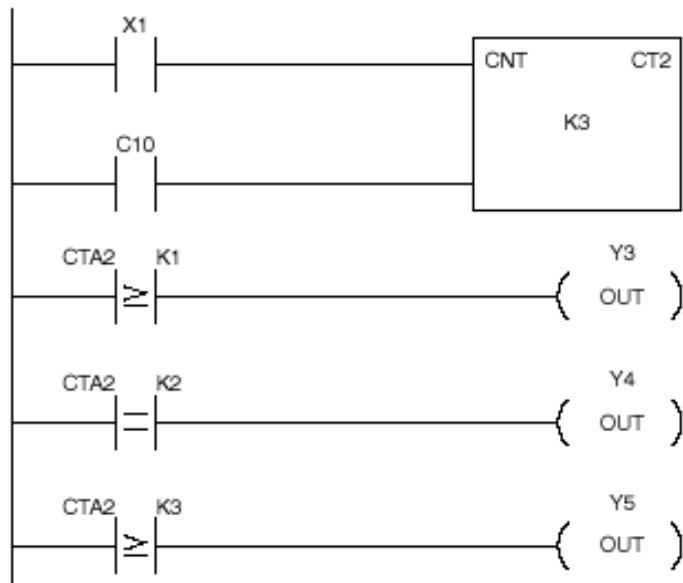
- Can be started, stopped and reset



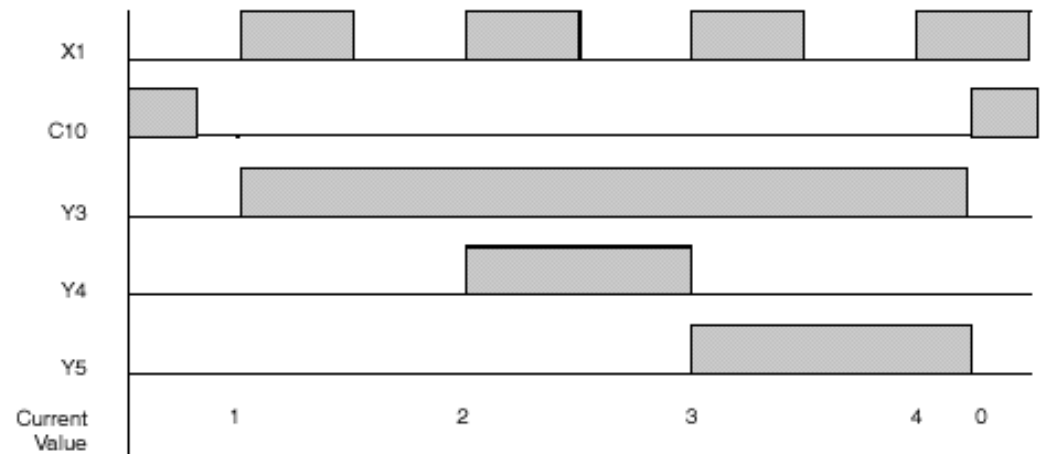
COUNTERS - CNT



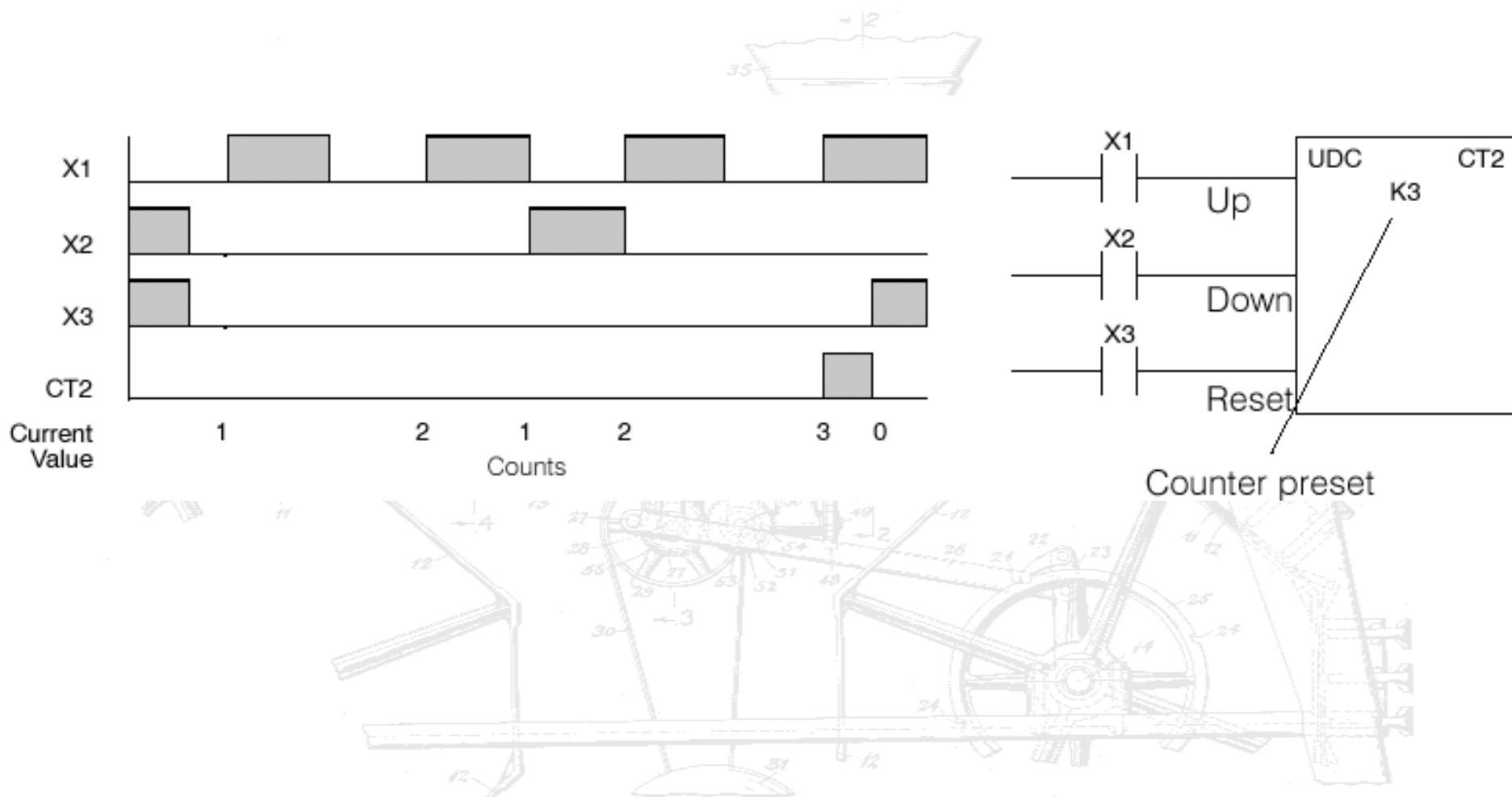
DirectSOFT



Counting diagram

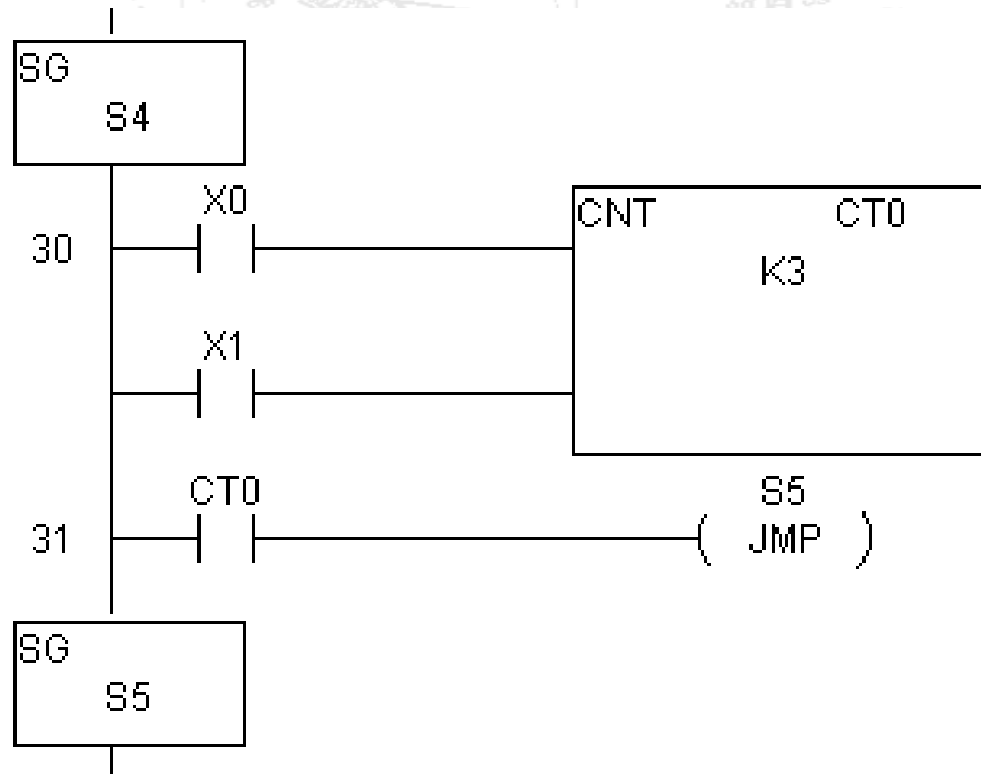


COUNTERS - UDC



COUNTERS - SGCNT

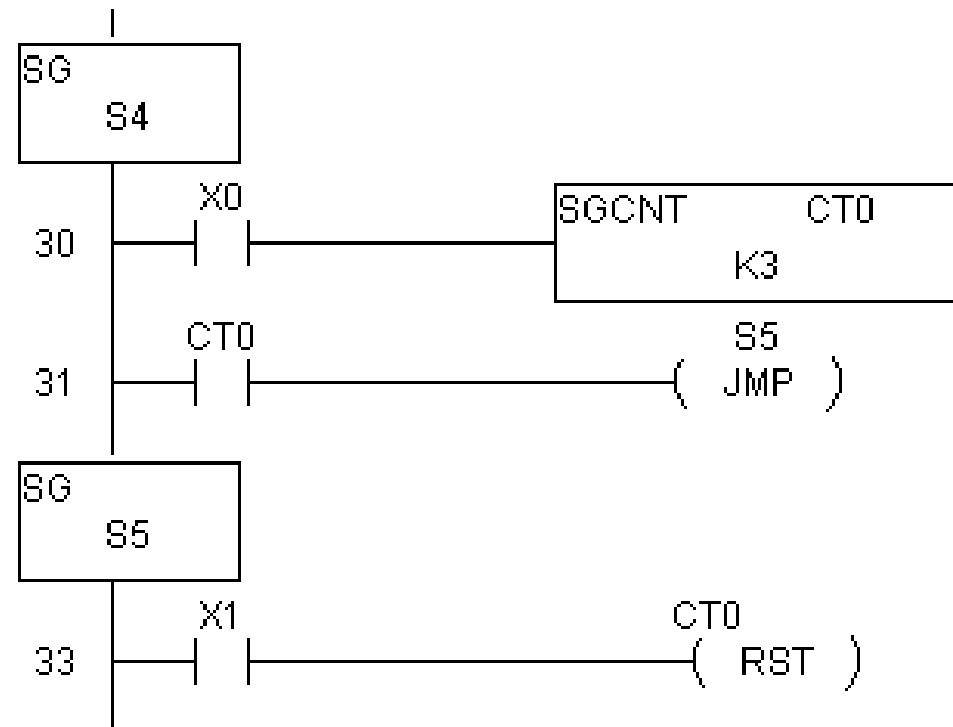
What if you need to reset a counter after you have left the stage?



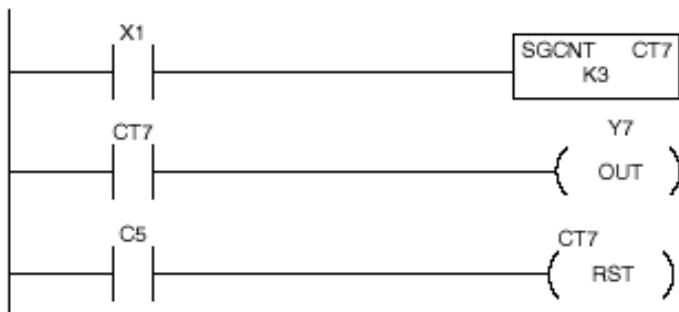
COUNTERS - SGCNT

Stage Counter

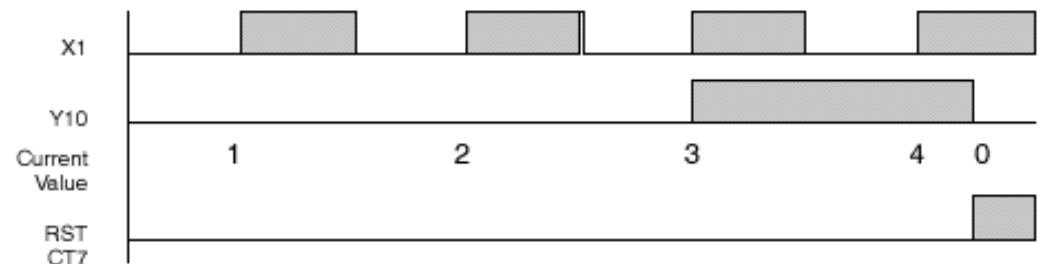
*-Reset with a special
RST coil.*



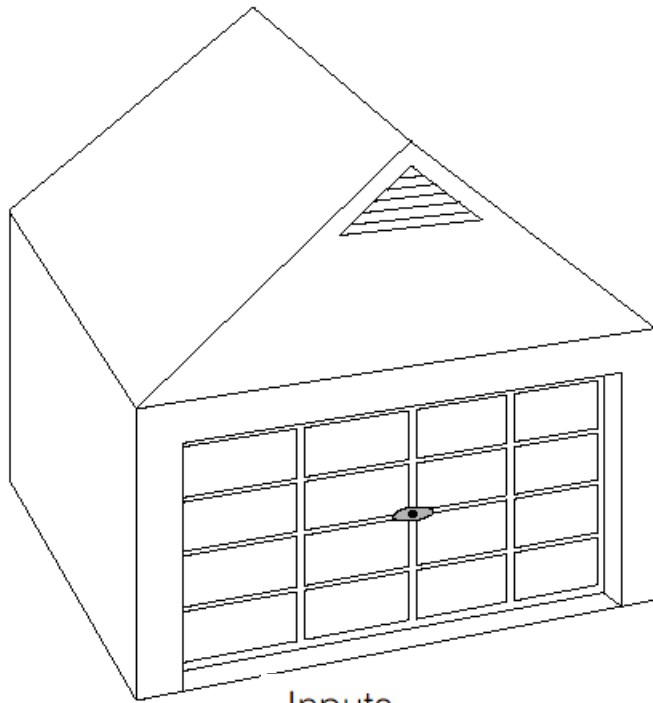
DirectSOFT



Counting diagram



GARAGE DOOR OPENER EXAMPLE



Inputs

Toggle
X0

Up limit
X1

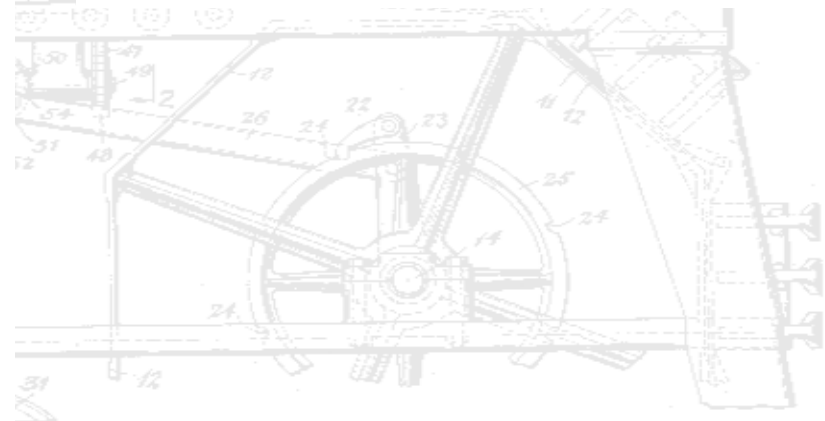
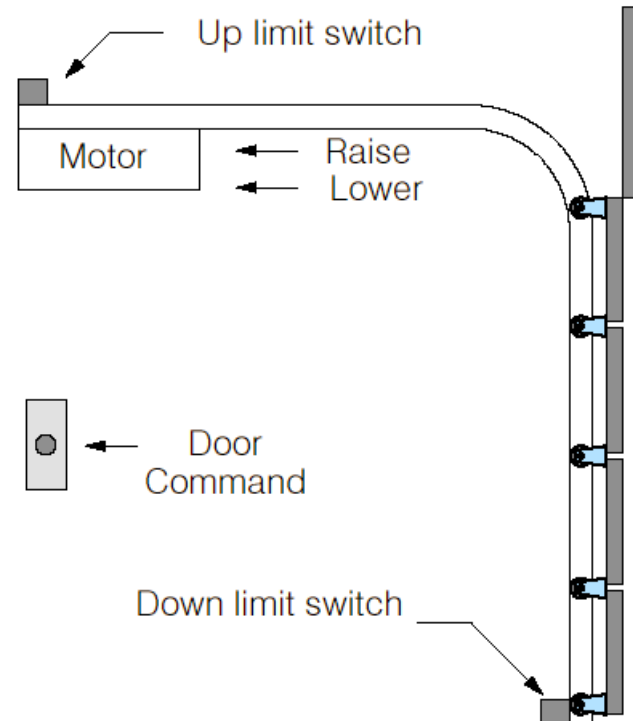
Down limit
X2

Ladder
Program

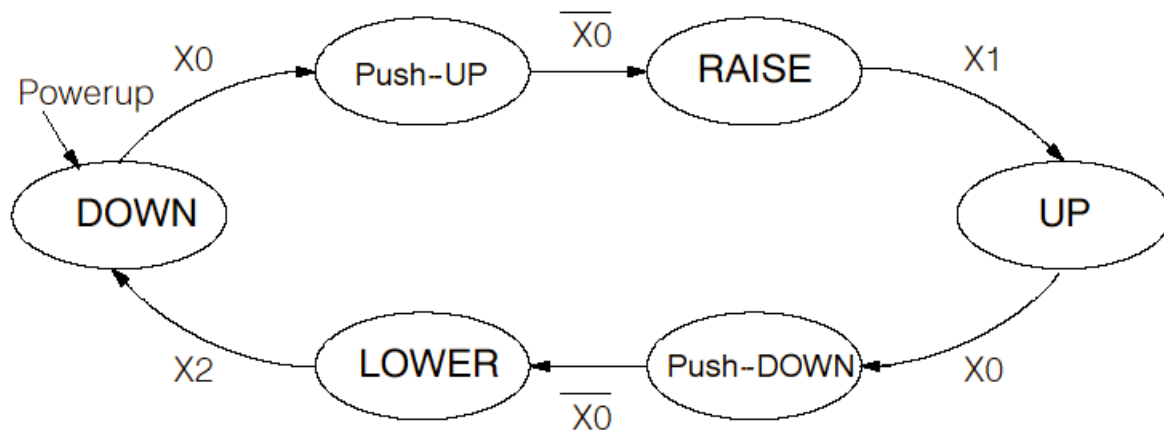
Outputs

To motor:
Y1 → Raise

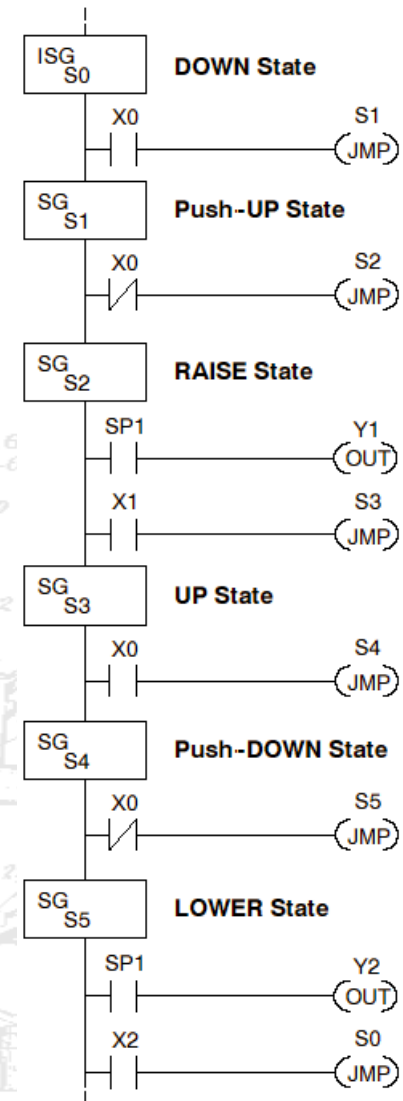
Y2 → Lower



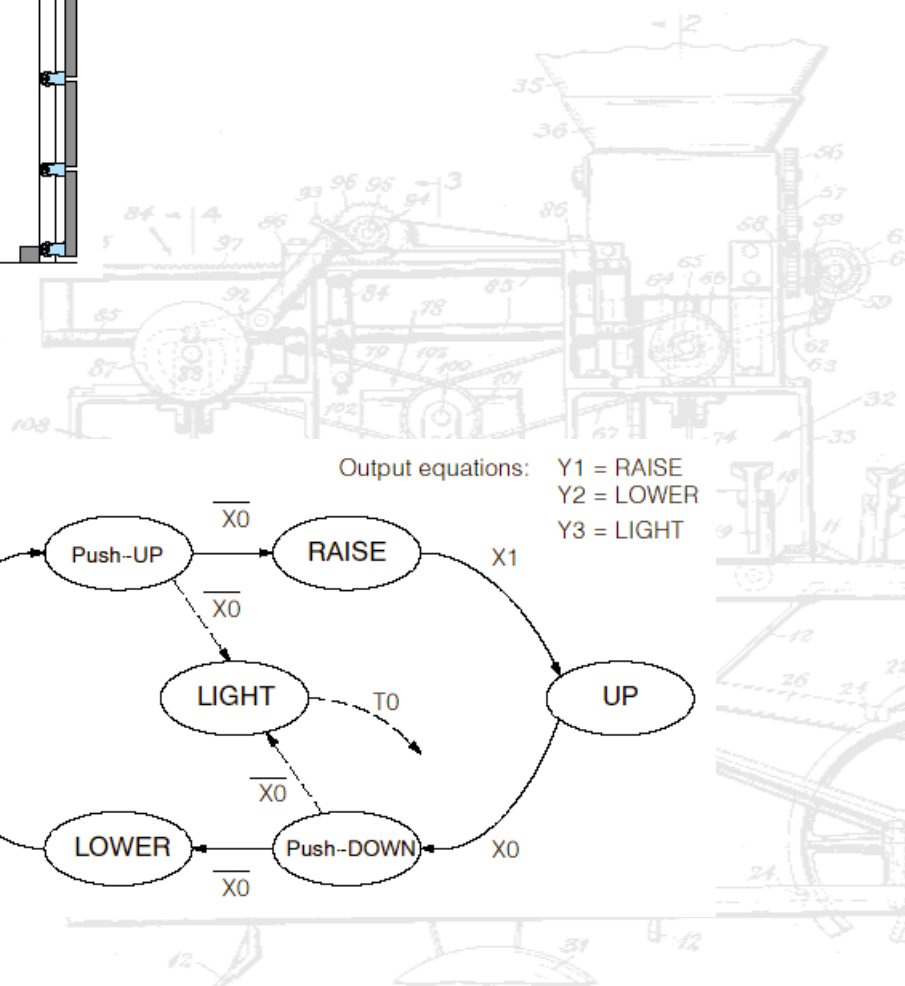
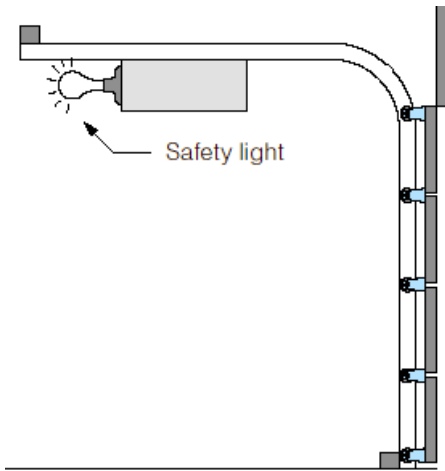
GARAGE DOOR OPENER EXAMPLE



Output equations: $Y1 = \text{RAISE}$ $Y2 = \text{LOWER}$



GARAGE DOOR OPENER EXAMPLE



Output equations: Y1 = RAISE
Y2 = LOWER
Y3 = LIGHT

