## the FSM for polling of digital input

This is a synchronous Mealy finite state machine

## input dRead=1dRead=0 TimeOut

## **Output**

dOut=1 dOut=0 none startTimer50ms

Act2=startTimer50ms

states state & action table down waitUp Up waitDown dRead=0down/none down/Act2 waitDown/Act3 waitDown/none dRead=1 waitUp/Act5 waitUp/none Up/none Up/none TimeOut down/Act9 up/Act10 up/Act11 down/Act12

