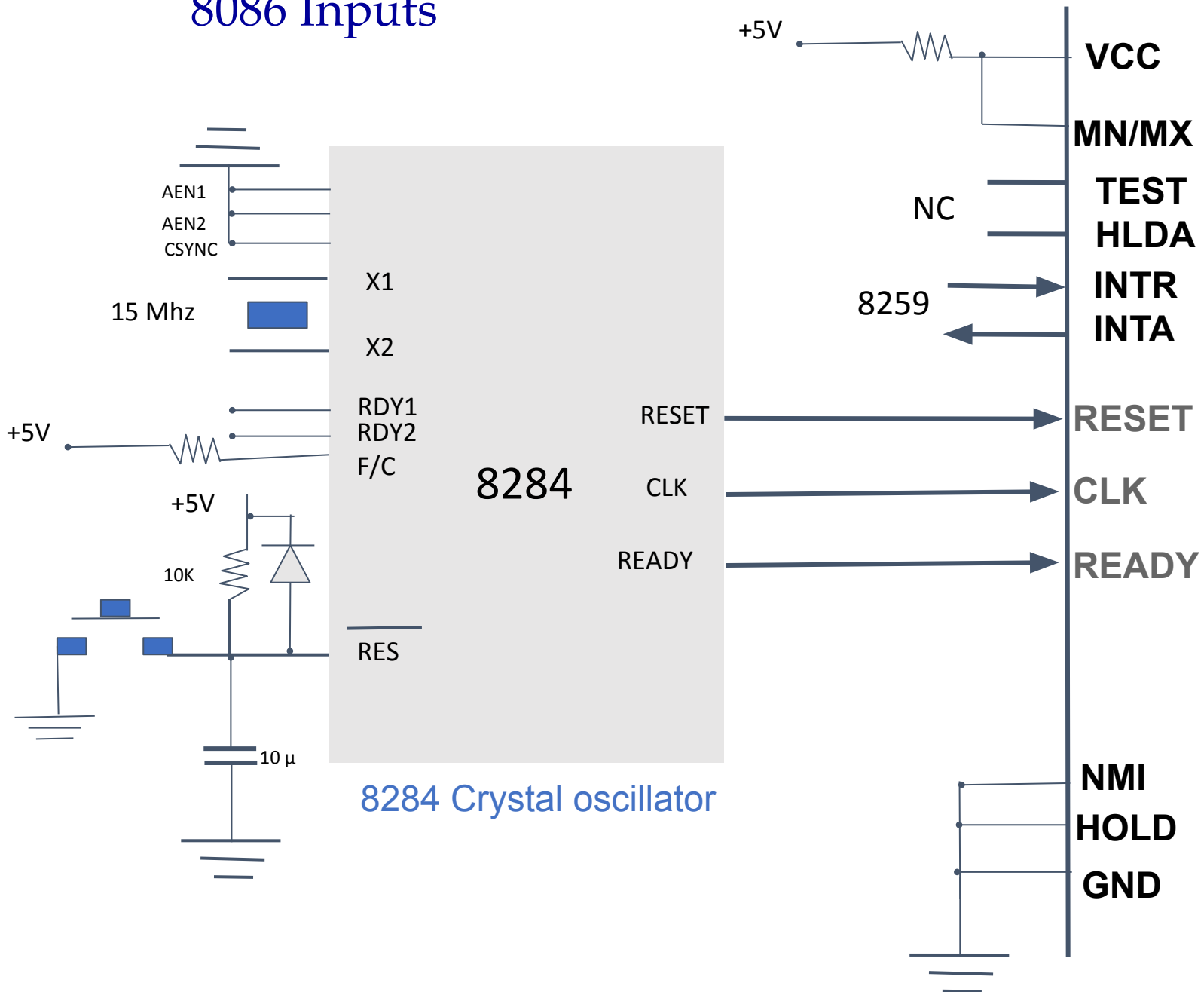
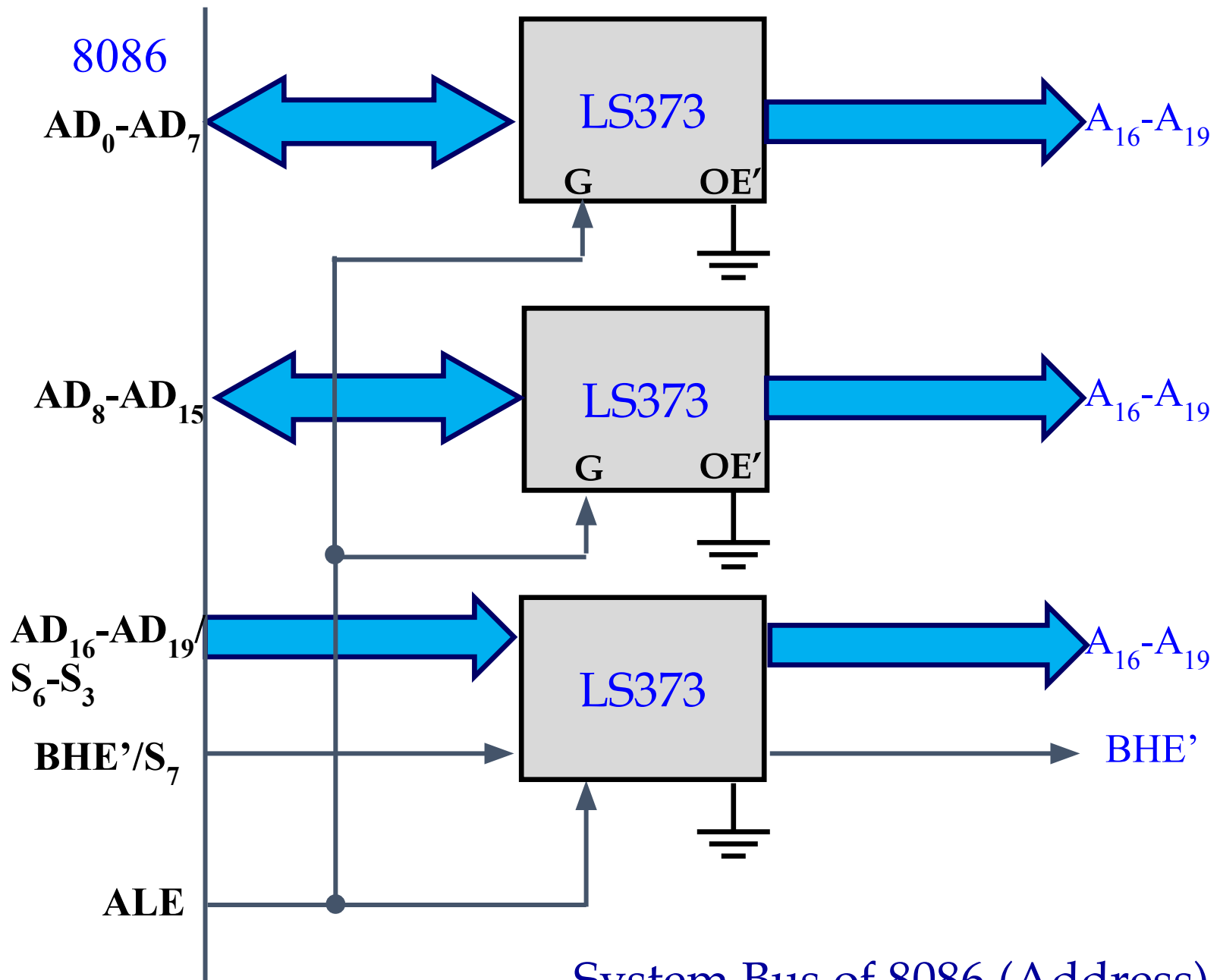
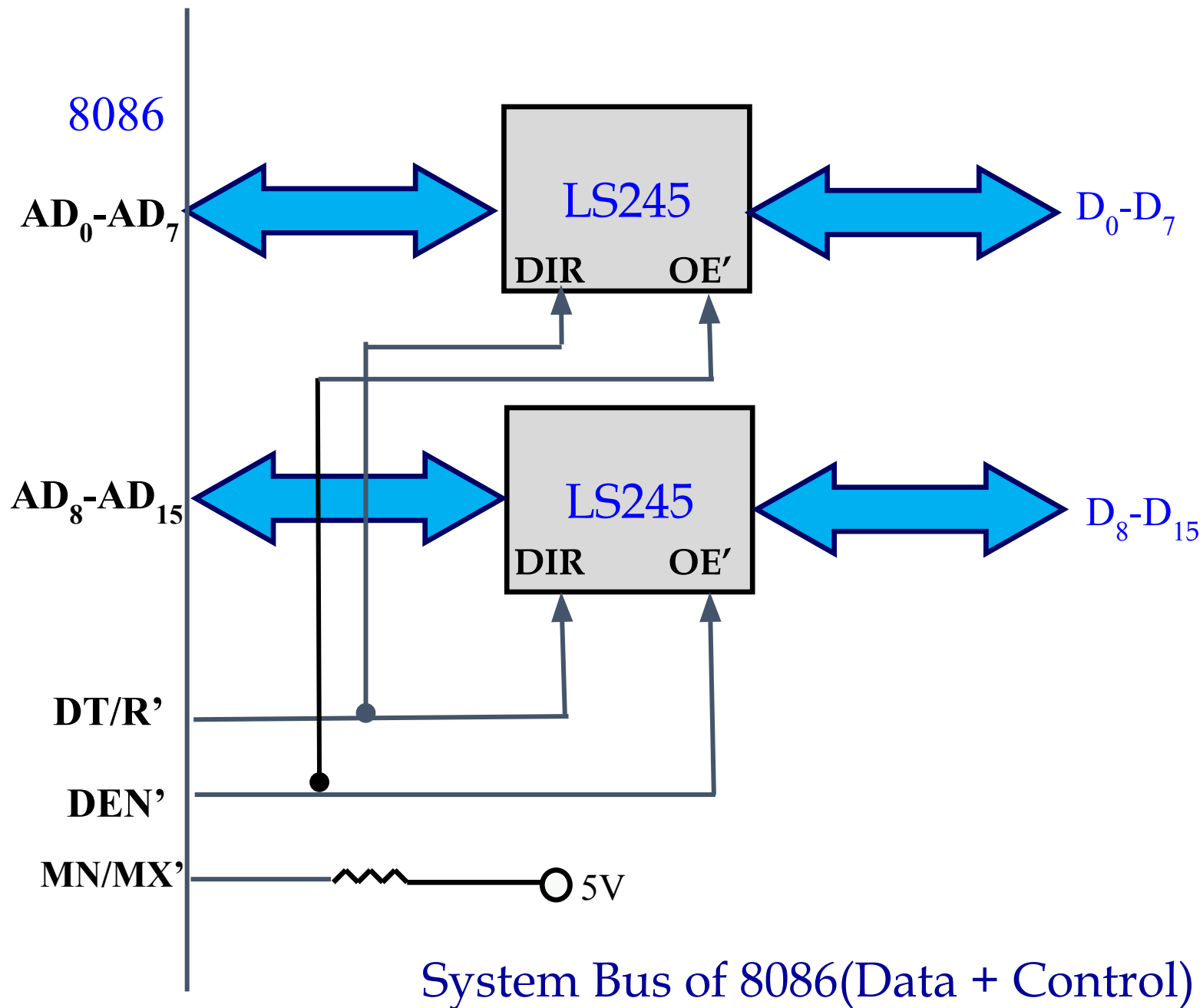
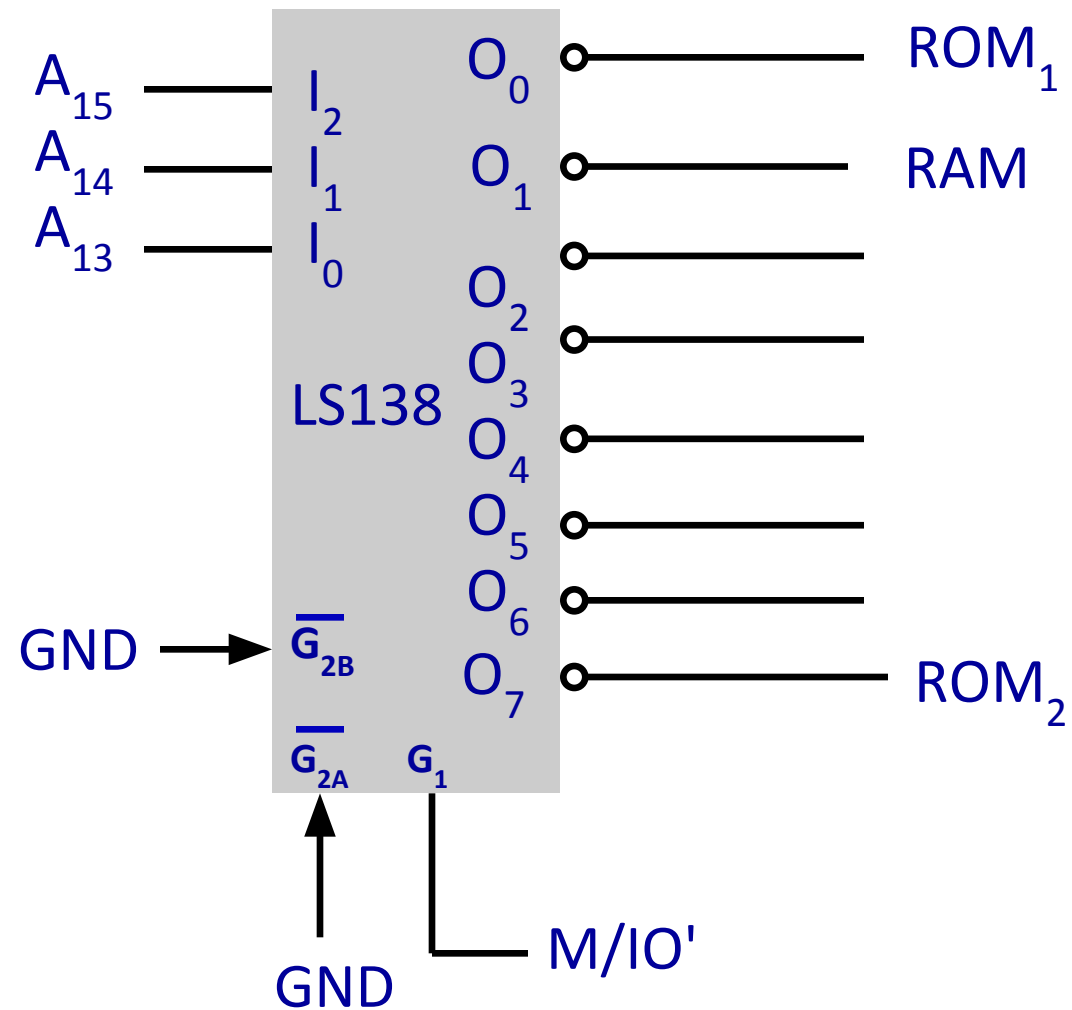


# 8086 Inputs

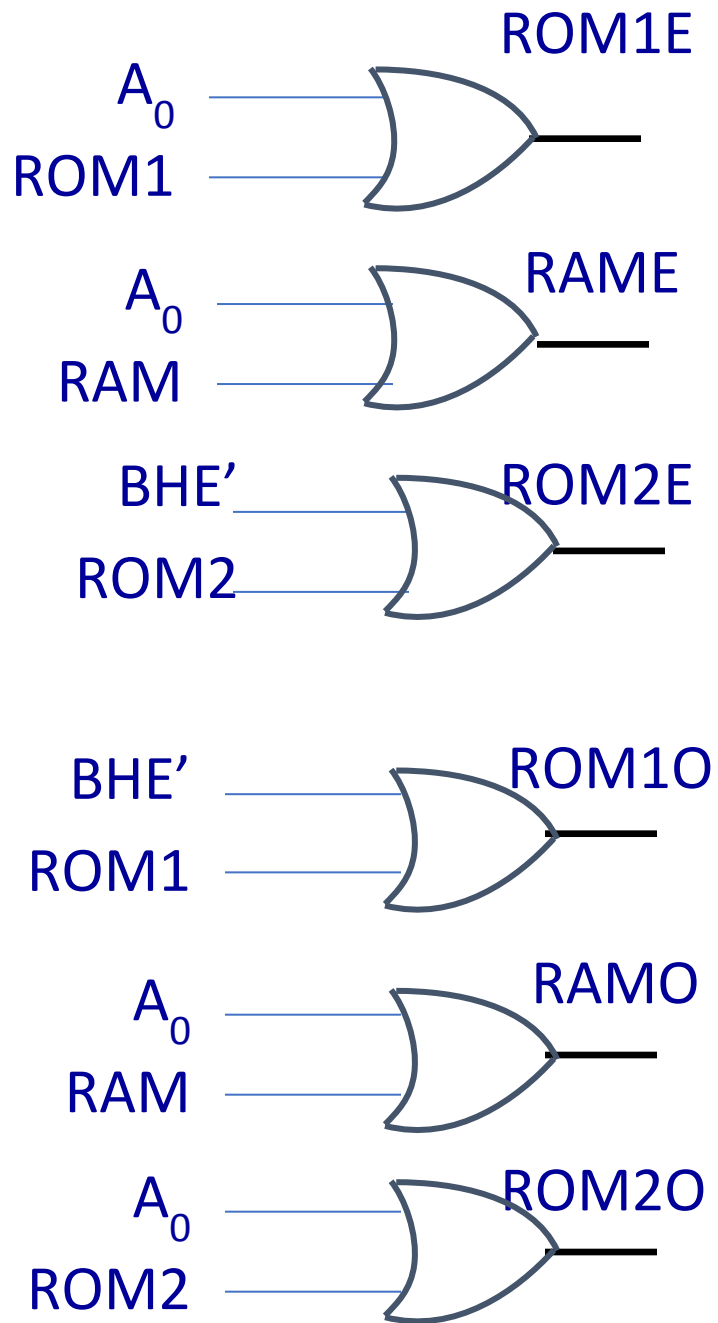


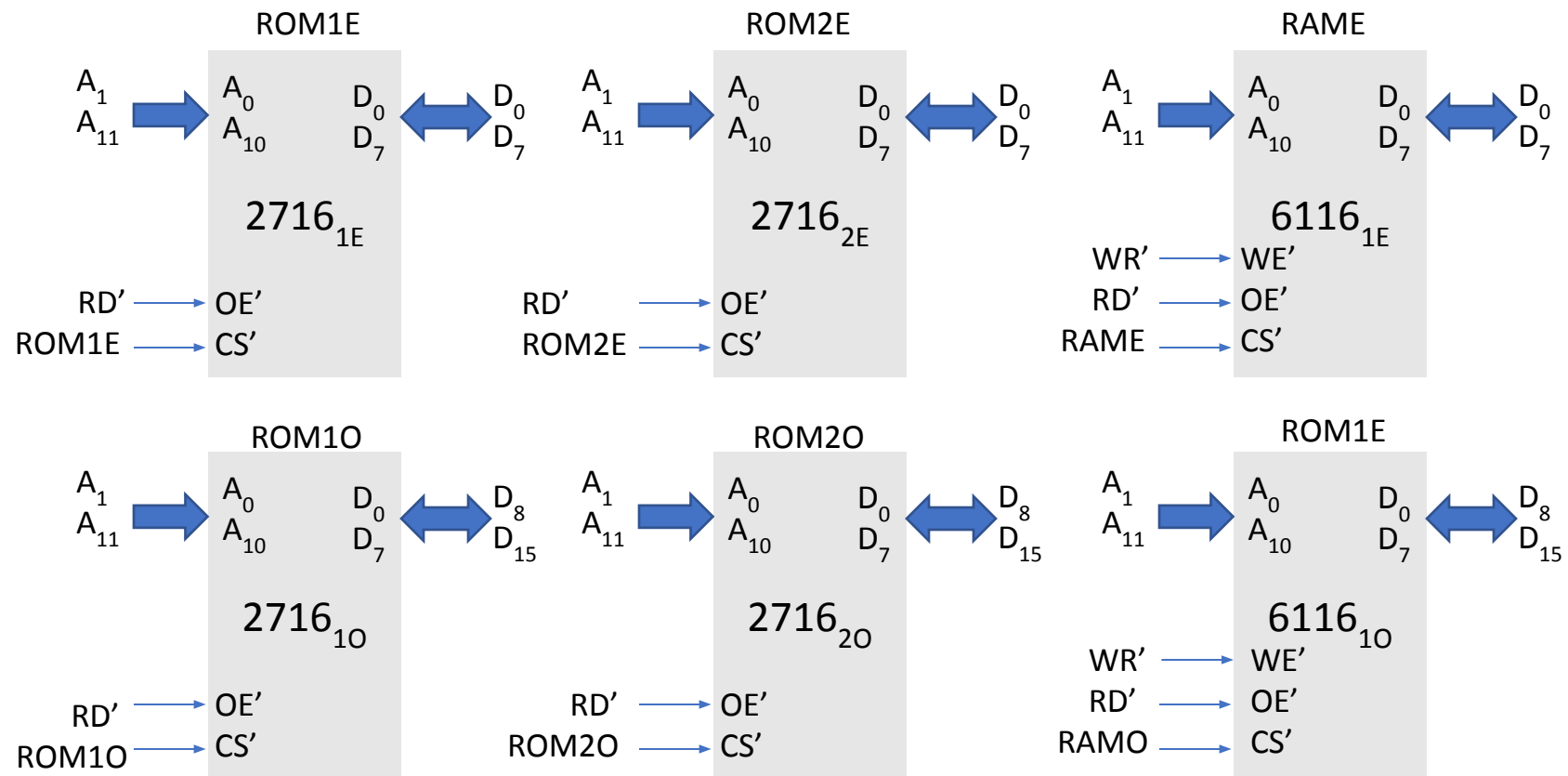




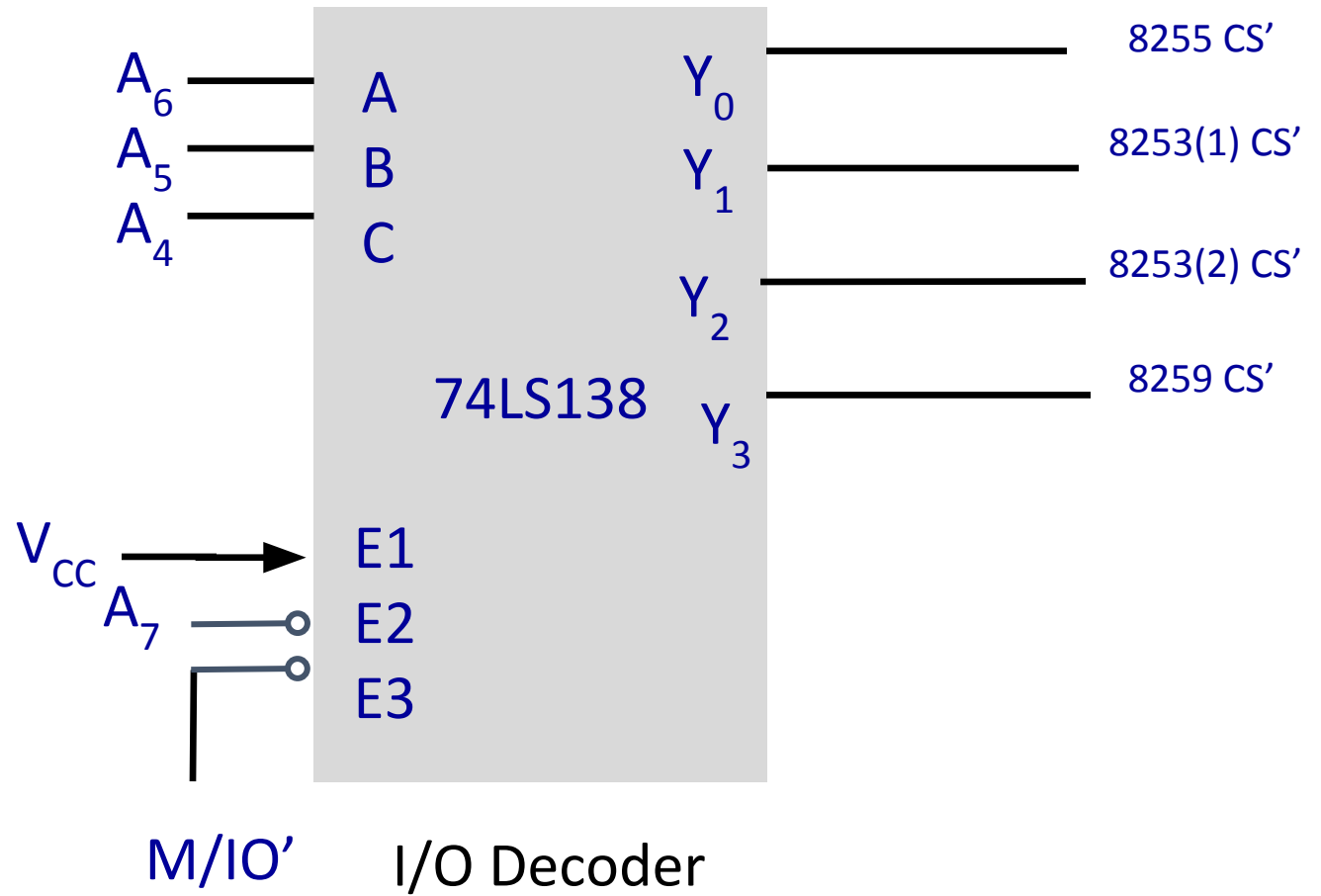


Memory Decoder

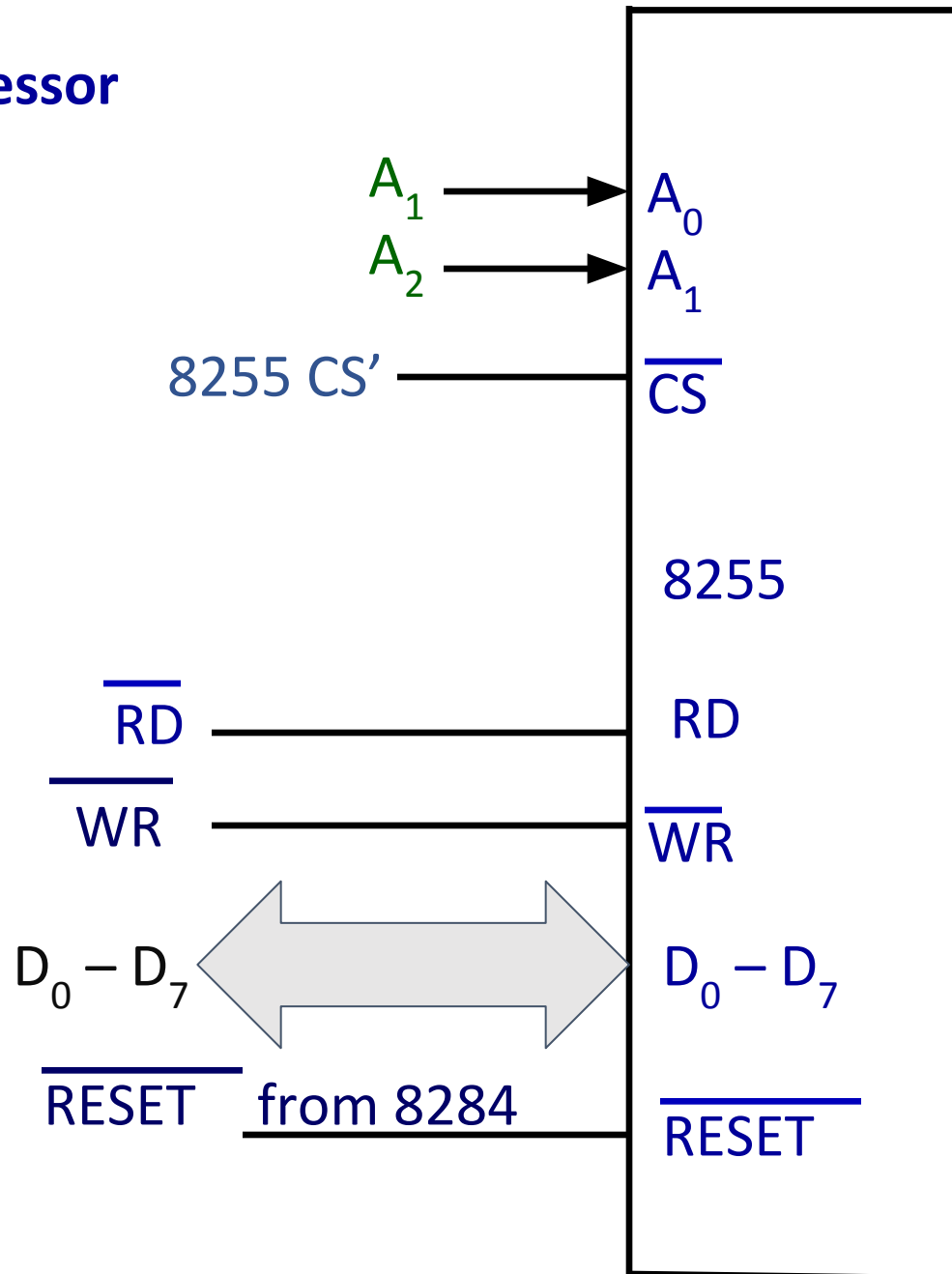




## Memory Interfacing



## 8255 Interface to the processor



# 8255 Interface to the I/O devices

Port A o/p

- PA<sub>0</sub> — i/p to lock
- PA<sub>1</sub> — Water-In Valve(Relay)
- PA<sub>2</sub> — Water-Out Valve(Relay)
- PA<sub>3</sub> — Process End Buzzer
- PA<sub>4</sub> — Alarm ( Door )
- PA<sub>5</sub> — Detergent Valve(Relay)
- PA<sub>6</sub> — Alarm ( Malfunction )
- PA<sub>7</sub>

Port B i/p

- PB<sub>0</sub> — Water Full Sensor
- PB<sub>1</sub> — Water-Empty Sensor
- PB<sub>2</sub>
- PB<sub>3</sub> — Door Sensor
- PB<sub>4</sub> — 8253(1) OUT2
- PB<sub>5</sub> — 8253(2) OUT0
- PB<sub>6</sub> — 8253(2) OUT2
- PB<sub>7</sub>

Port C lower i/p

- PC<sub>0</sub>
- PC<sub>1</sub>
- PC<sub>2</sub>
- PC<sub>3</sub>
- PC<sub>4</sub> — 8253(1) G2
- PC<sub>5</sub> — 8253(1) G1
- PC<sub>6</sub> — 8253(2) G0
- PC<sub>7</sub>

Port C higher o/p

RESUME

LOAD

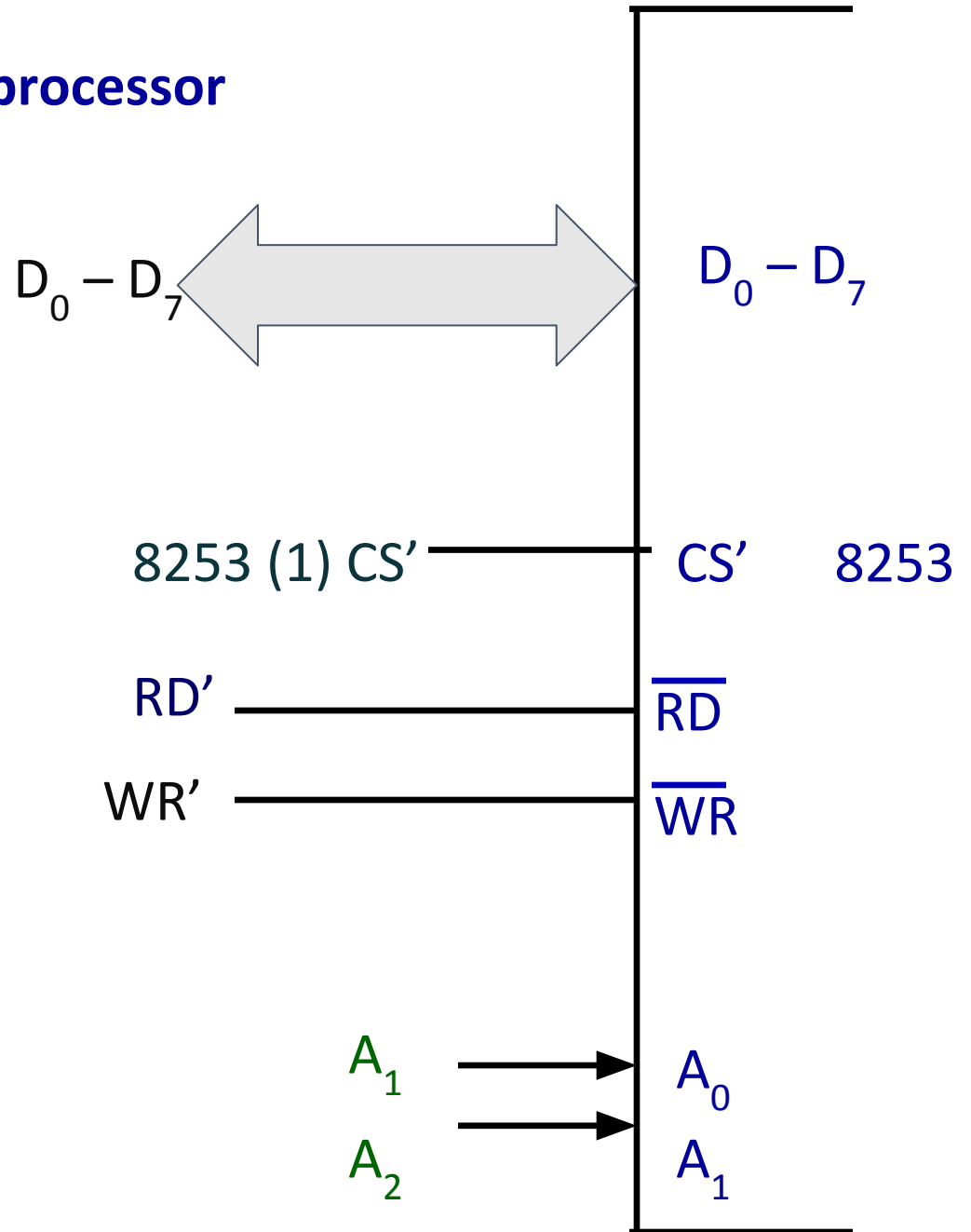
START

STOP EN

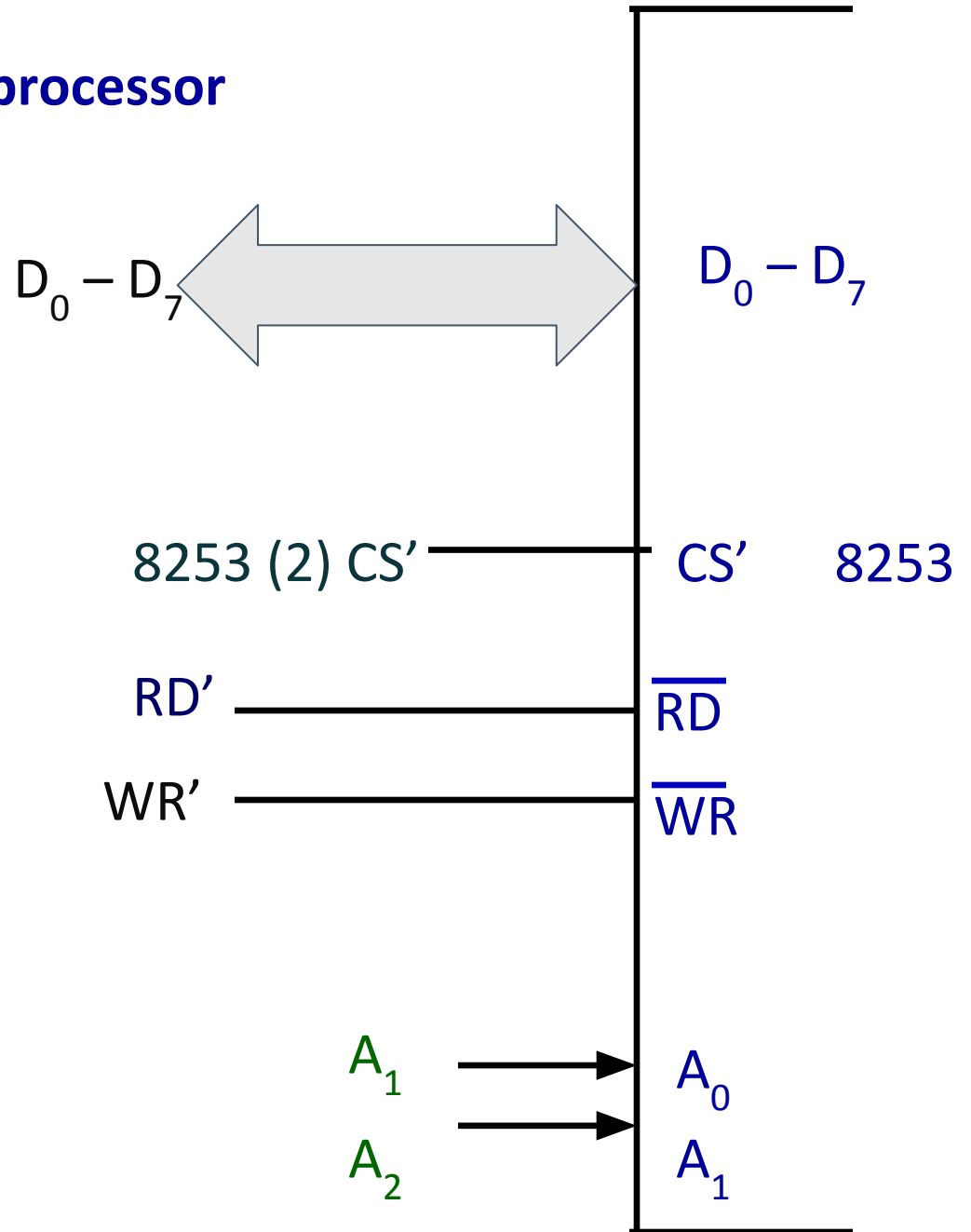


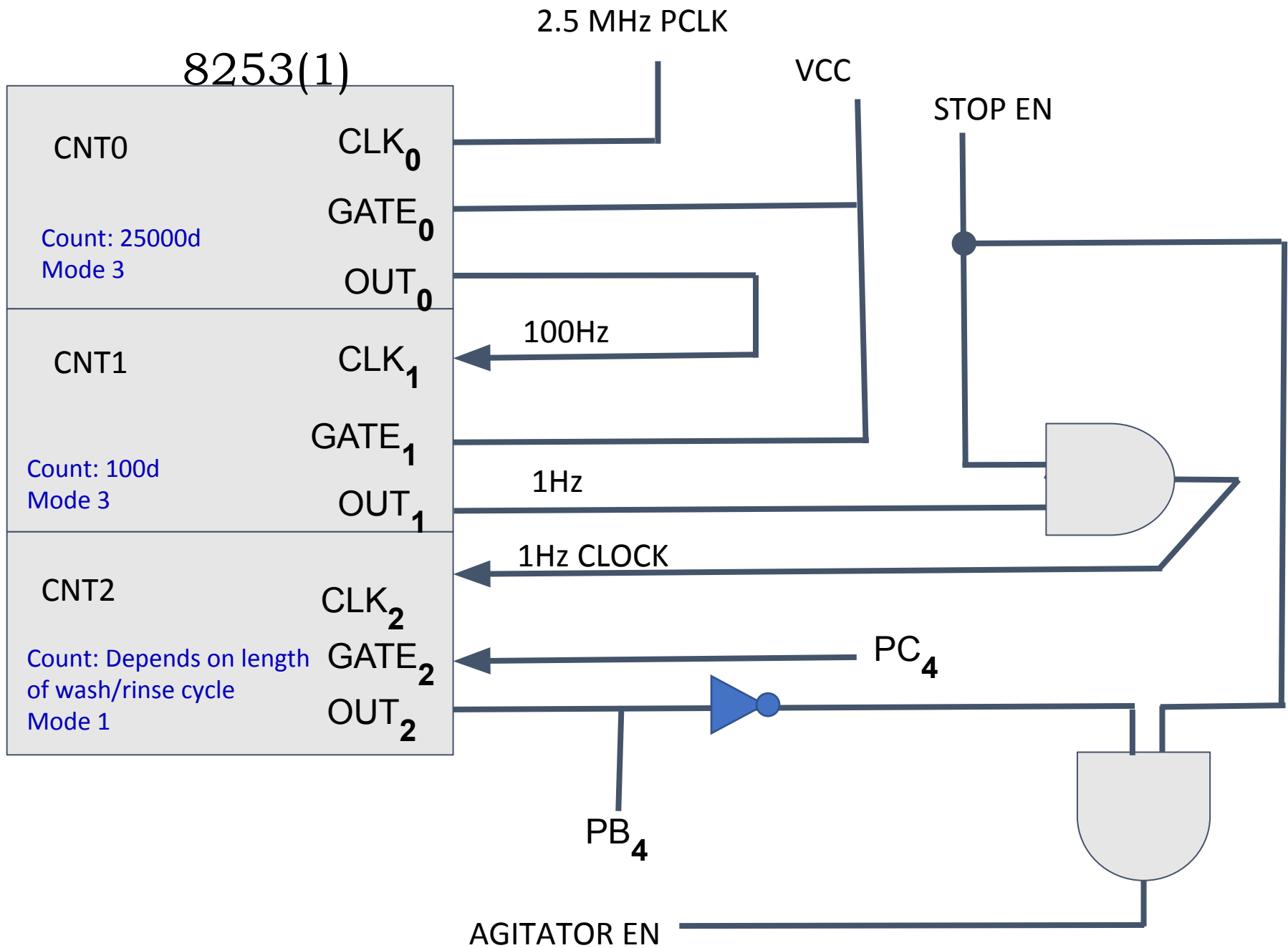


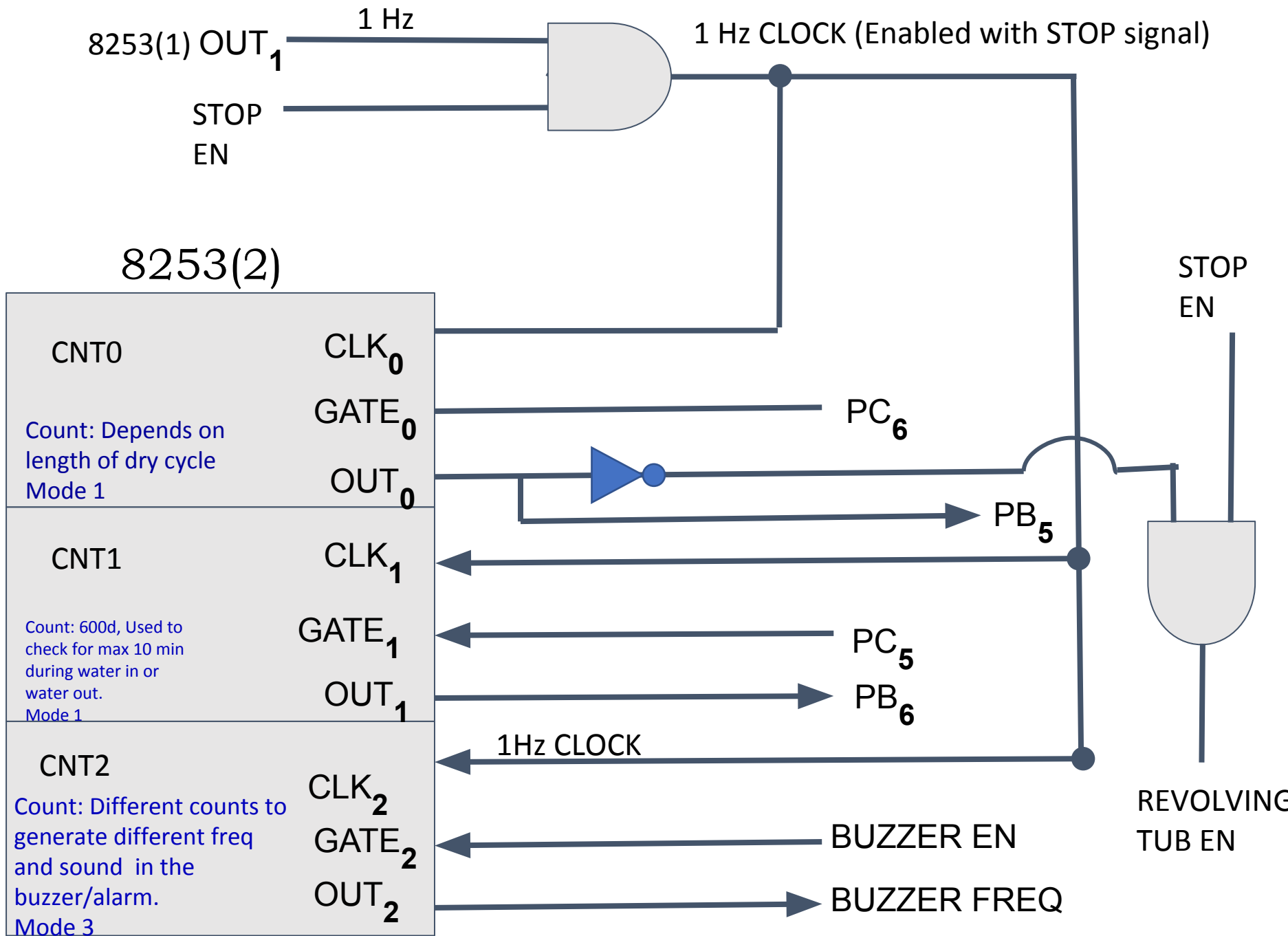
## 8253 (1) Interface to the processor

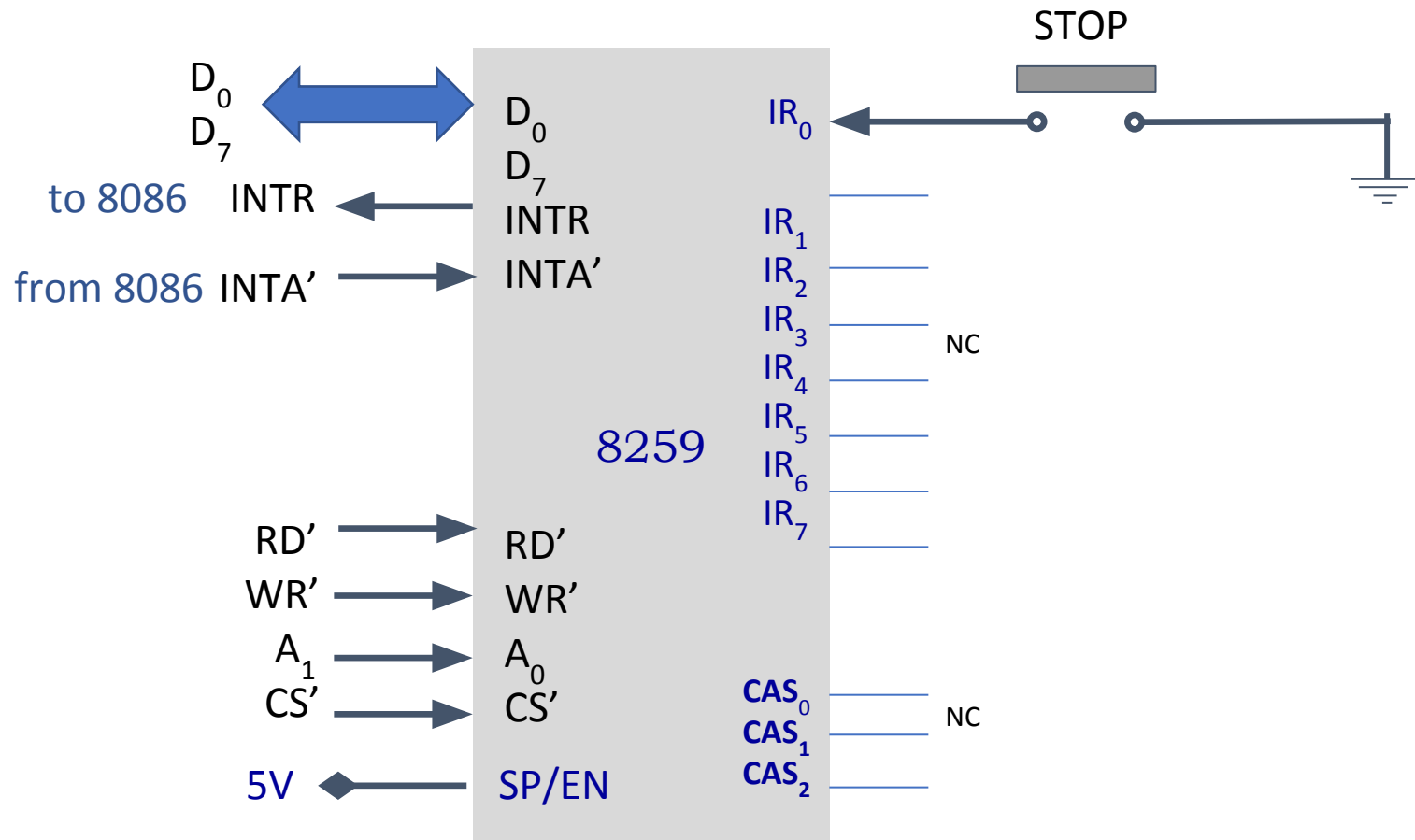


## 8253 (2) Interface to the processor

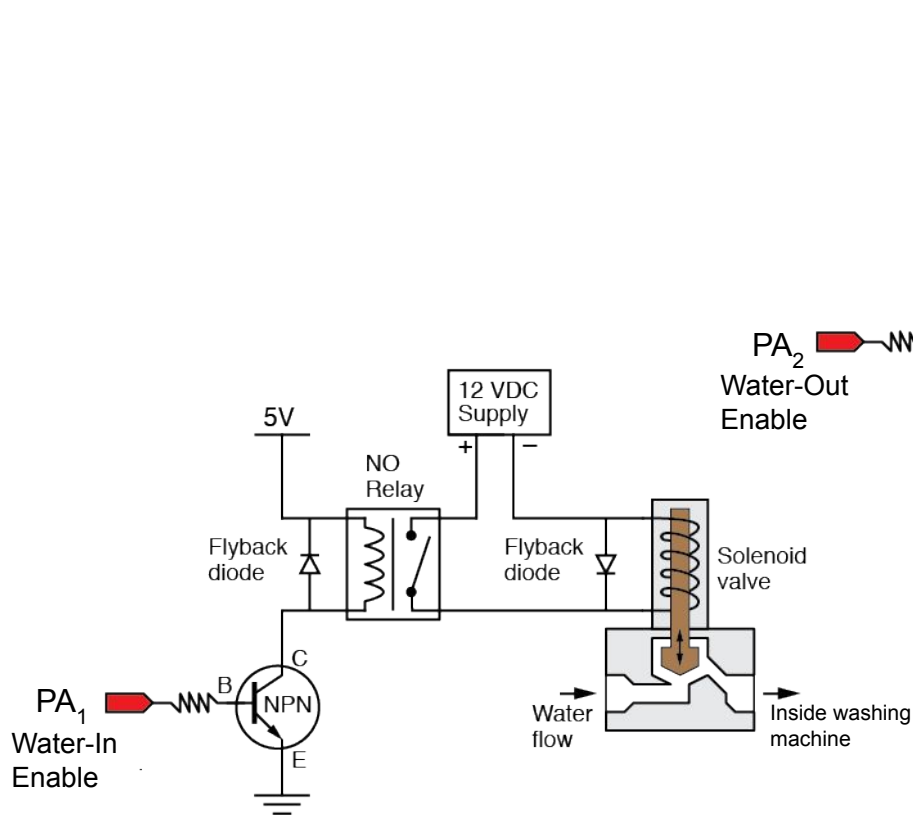




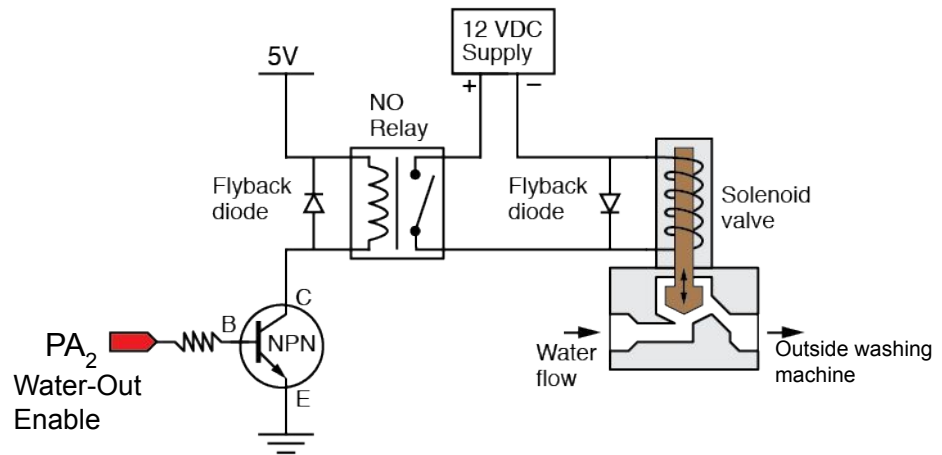




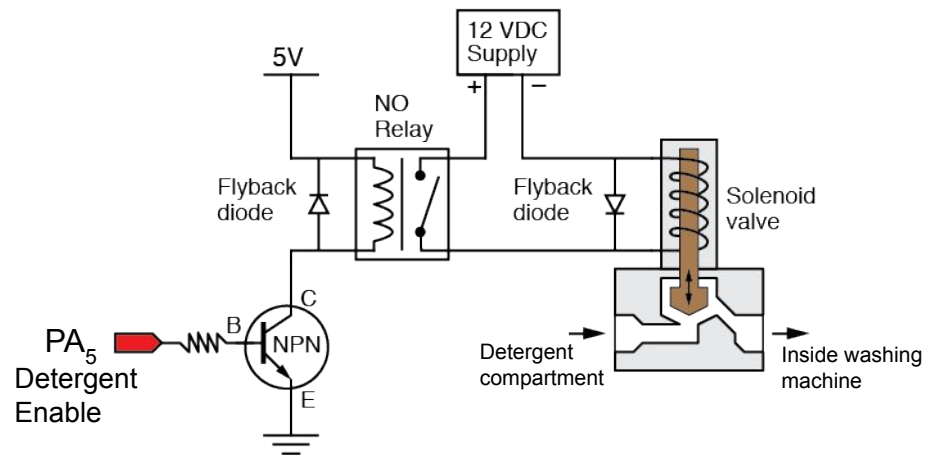
8259



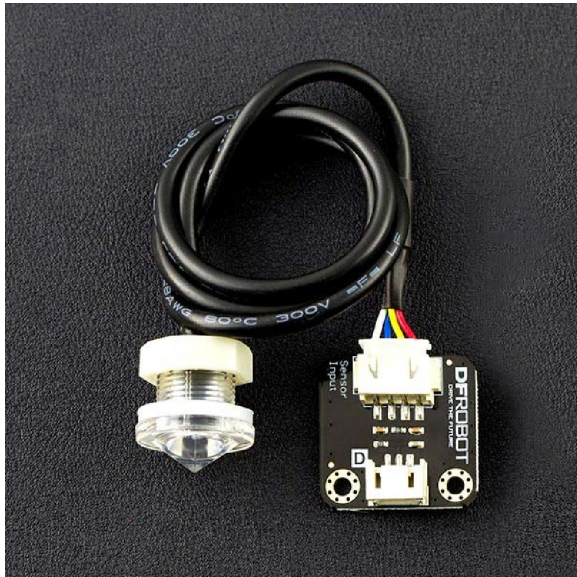
**Water In Relay**



**Water Out Relay**

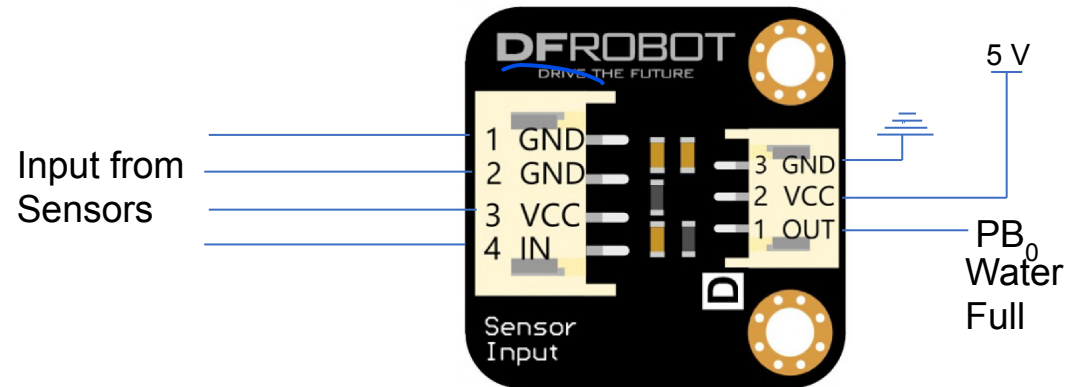


**Detergent Relay**

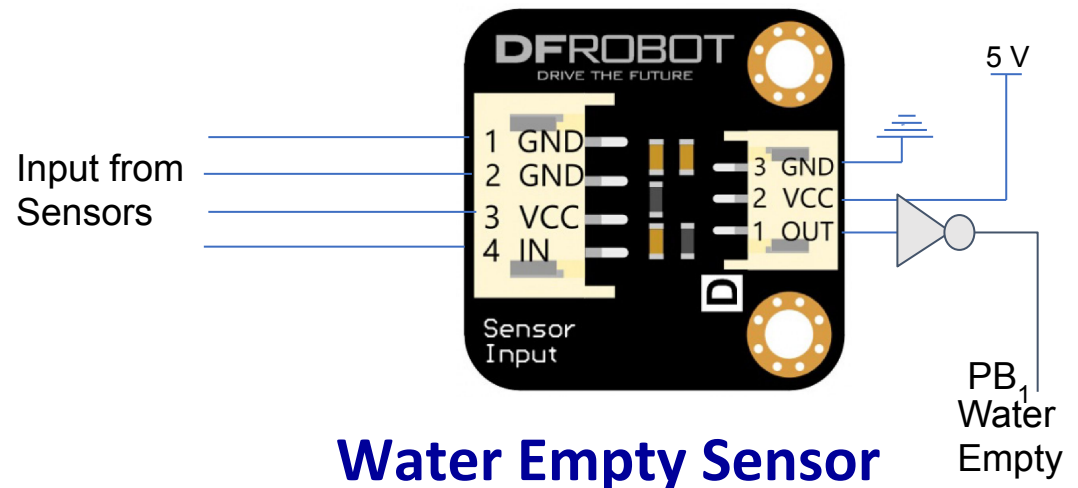


**Water Sensor- FS IR02**

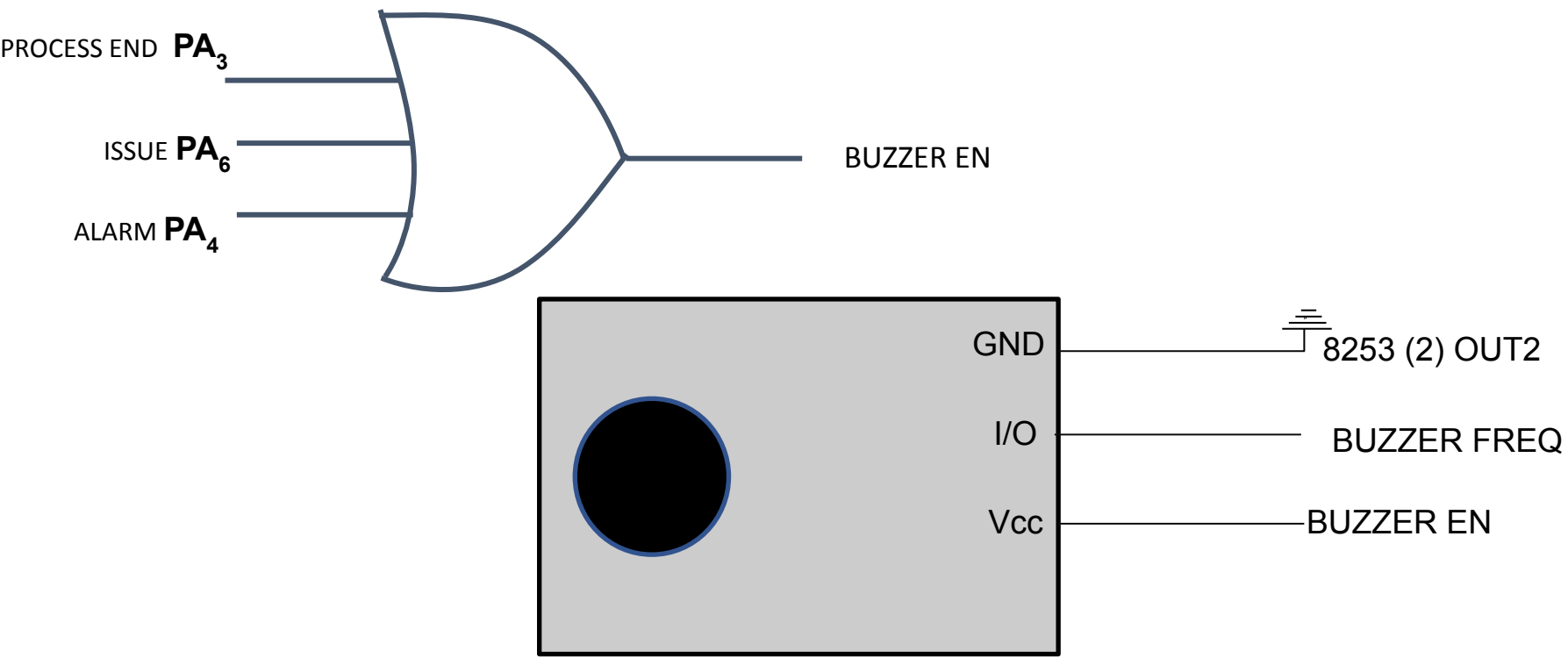
## FS IR02 Converter Board



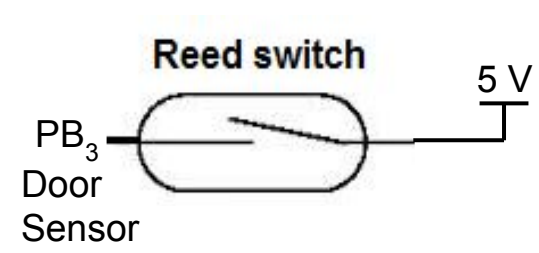
## Water Full Sensor



## Water Empty Sensor



**Buzzer- RKI 4706**



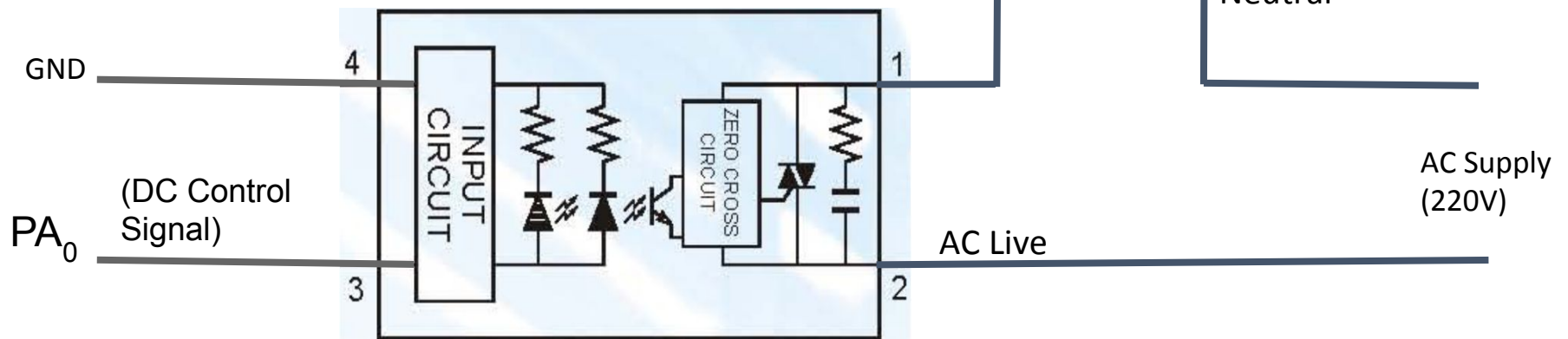
**Door Sensor**

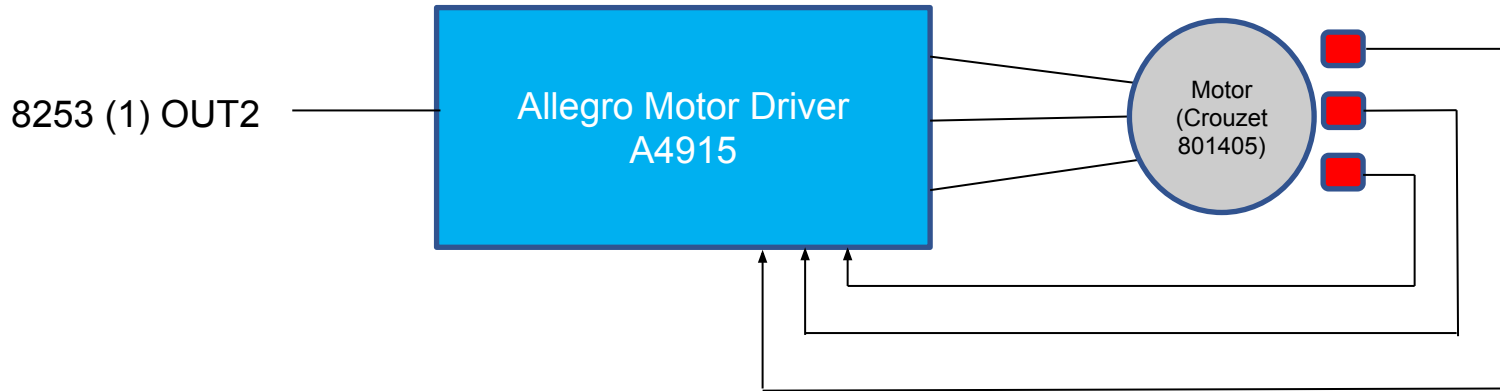


# Latch for Lock

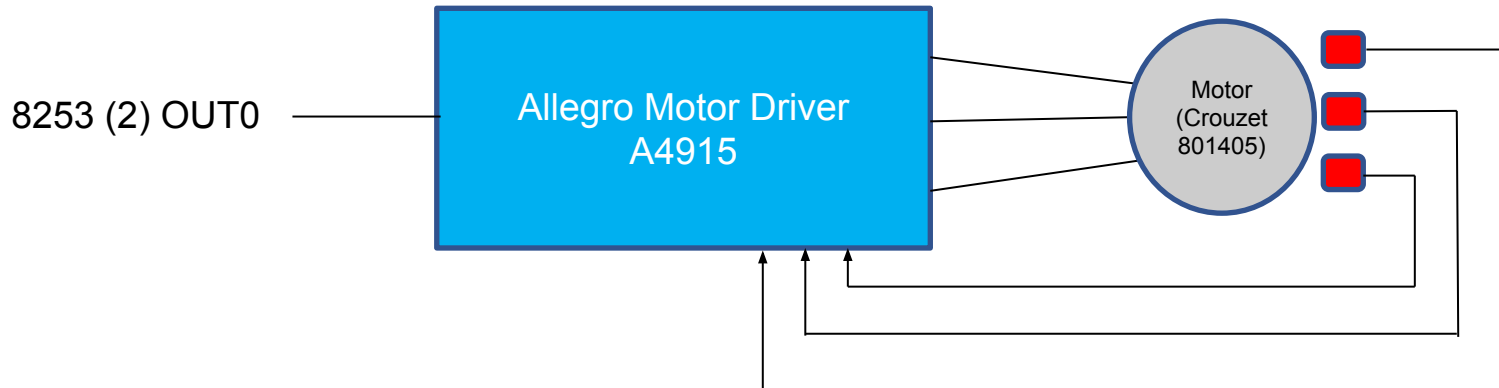
## Bi-metal Door Interlock

Solid State Relay Used:  
FOTEK SSR 40da





Agitator



Revolving Tub