

Chapter 8

Digital and Analog Interfacing Methods

Lesson 13

Industrial Control- Micro- Computer based Automatic hole drill Machine

Automatic drill machine

- Motor that drives the drill bit
- IO module motor current control
- IO module reversal and forward motion select control

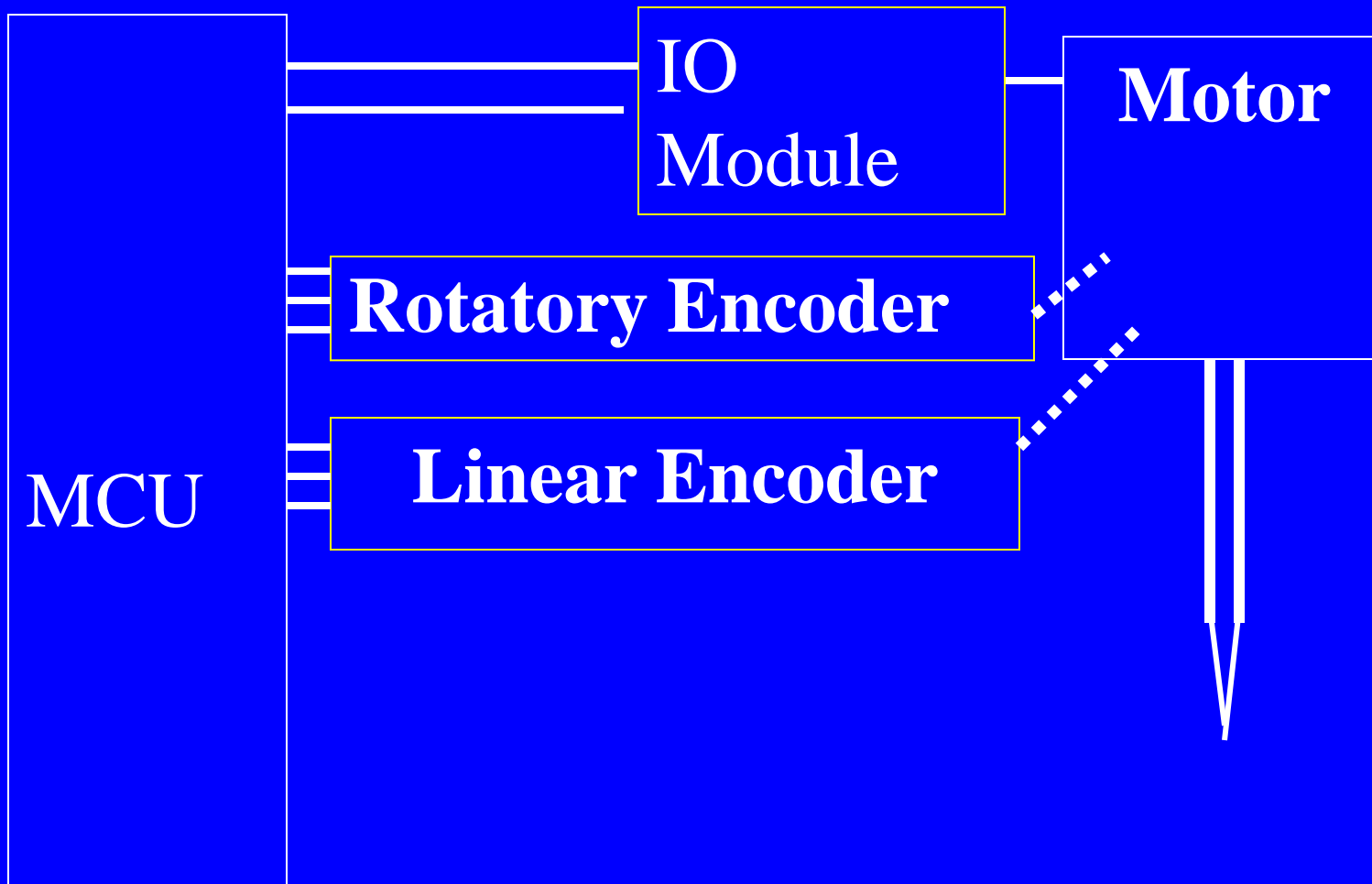
Automatic drill machine

- Drill shaft angle, motor rotatory speed control and drill reversal control using three input bits, one from hole and two from two tracks at Rotatory encoder

Automatic drill machine

- Linear position precision control, linear pull back control on reaching final set position and reset position control using three input bits, one from index mark, and two from two l and v scales at linear encoder.

Sketch



Summary

We learnt

Automatic Drill Machine

- IO Module
- Linear encoder
- Rotatory encoder
- MCU

End of Lesson 13

Industrial Control- Micro- Computer based Automatic hole drill Machine