Chapter 8

Digital and Analog Interfacing Methods

Lesson 14 Part a

MCU based Instruments – Metal Position Proximity Sensors

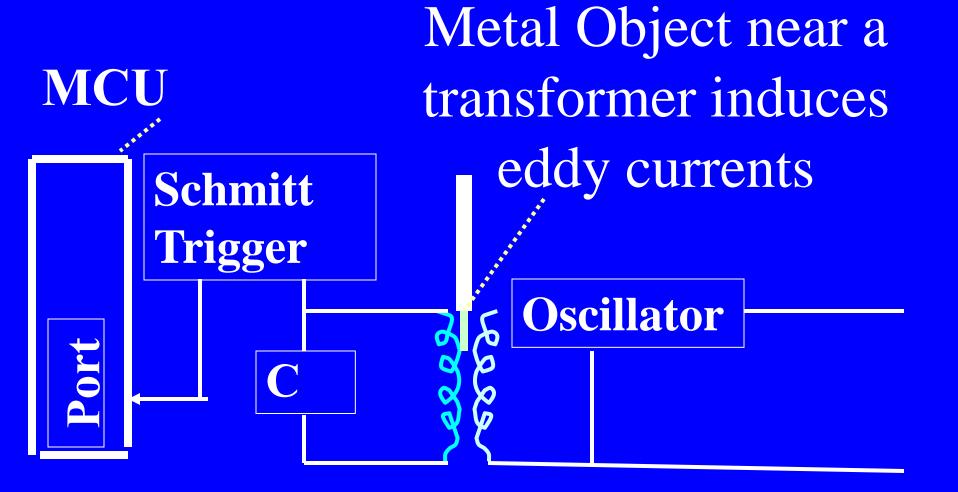
Position Proximity Sensors

- Motion detection (i) for a moving wind cup in a wind-velocity instrument or (ii) for finding the motor rpm
- Counting the capped bottles passed in proximity by checking the metallic cap on a bottle in a bottling plant

Position Proximity Sensors

- Counting the coins
- Broken part detection
- Position index sensing

Metal Object Proximity Sensor



Summary

We learnt

•Metal sensor senses eddy currents change when near a transformer

End of Lesson 14 Part a

MCU based Metal Proximity Sensor