# Chapter 8

# Digital and Analog Interfacing Methods

### Lesson 14 Part d

#### **Optical Obstacle Proximity Sensors**

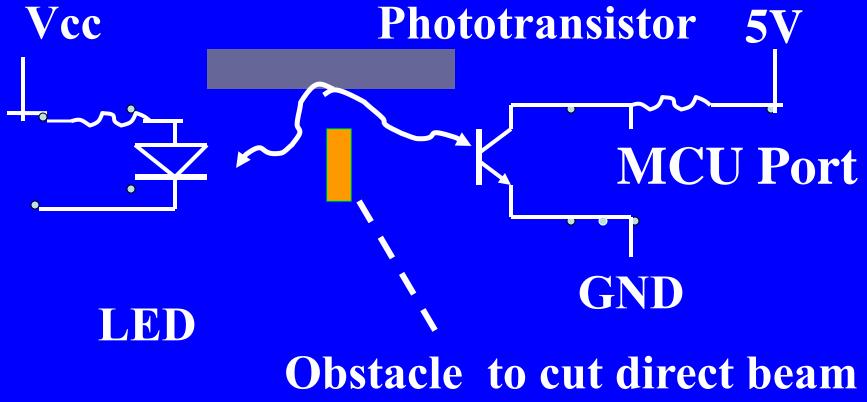
# Optical Obstacle Proximity Sensor

- Position index hole sensing
- Wall or obstacle sensing

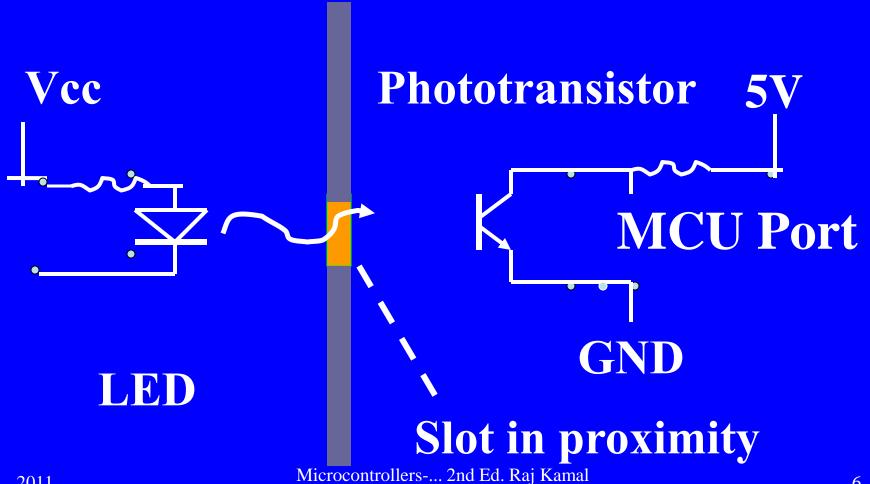
### **Position Proximity Sensors**

- Motion detection (i) for a moving wind cup in a wind-velocity instrument by a rotating object chopping the optical path
- Finding the motor rpm by a rotating object chopping the optical path on each revolution

# Optical Wall proximity sensor Circuit



# Optical Proximity sensor Circuit



Pearson Education

# Summary

#### We learnt

•Optical sensor uses a pair of LED and phototransistors to sense a light slot in proximity

### End of Lesson 14 Part d

### **Optical Obstacle Proximity Sensors**