# Detect Sensor (6A)

- Detect Sensor Type
- Detect Sensor Characteristics

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## **Detect Sensors**

#### **Occupancy Sensor:**

• detect the presence / absence of an object

#### **Motion Detector:**

detect a moving object

## **Contact Type**

micro switch

### **Non-contact Type**

- photo-electric sensor
- proximity sensor
- IR sensor

## Photo-electric Sensors

**Through-beam Photo-electric Sensor** 

**Reflex Photo-electric Sensor** 

**Diffuse-reflection Photo-electric Sensor** 

## **Proximity Sensors**

**Inductive Proximity Sensor** 

**Capacitive Proximity Sensor** 

**Ultrasonic Proximity Sensor** 

**Reed Switch** 

## Passive Infrared Motion Detector

## PIR (Passive InfraRed) Motion Detector

- Pyro-electric Effect
- Detect far IR radiated from human body

#### References

- [1] http://en.wikipedia.org/
- [2] Nam Ki Min, Sensor Electronics, Dong-il Press