



Sciencetech 2313 provides fundamental study of Magnetic, Optical, Inductive and Capacitive Proximity Sensors which are widely used in industries for applications such as object counting, length counting in Roller Coasters, Conveyor Systems, etc.

## Features

- Inductive Proximity Sensor
- Capacitive Proximity Sensor
- Magnetic Sensor
- Optical Sensor
- Audio and LED indicator for the object detection
- Easy to operate and carry
- Exhaustive Learning material

## Scope of Learning

**Study and use of:**

- Inductive Proximity Sensor.
- Capacitive Proximity Sensor.
- Magnetic Sensor.
- Optical Sensor.

## Technical Specifications

Optical Sensor	: Transmitter- IR LED
Wavelength	: 940nm IR Receiver- Phototransistor
Wavelength	: 940nm Operating input voltage- 5V DC Output signal- TTL Sensing range- 0-10 mm
Magnetic Sensor	: Operating input voltage- 5V DC Output voltage- 5V DC Sensing range- 0-20mm
Inductive Proximity Sensor	: Operating input voltage- 12V DC Sensor type- PNP Output voltage- 12V DC Sensing range- 0-10 mm Switch type- INO Body- Cubical
Capacitive Proximity Sensor	: Operating input voltage- 12V DC Sensor type- PNP Output voltage- 12V DC Sensing range- 0-10 mm Switch type- NO Body- Cubical
Output Circuit	: LED and Buzzer
Test Points	: 8 nos
Dimensions (mm)	: W 326 x D 252 x H 52
Power Supply	: 110V - 260V $\pm 10\%$ , 50/60Hz
Weight	: 1.5 Kg. (approximately)
Operating Conditions	: 0-40°C, 80% RH

### List of Included Accessories

- Patch Cord 16" (2mm)-2 Nos.
- Inductive Proximity Sensor (with DIN connector)
- Capacitive Proximity Sensor (with DIN connector)
- Bar Magnet, Mains cord-1 No.(each)