



Sciencetech TechBooks are compact and user friendly learning platforms to provide a modern, portable, comprehensive and practical way to learn Technology. Each TechBook is provided with detailed Multimedia learning material which covers basic theory, step by step procedure to conduct the experiment and other useful information.

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

<b>Optical Sensor</b>	:	Transmitter	:	IR LED
<b>Wavelength</b>	:	940nm		
		IR Receiver	:	Phototransistor
<b>Wavelength</b>	:	940nm		
		Operating input voltage	:	5V DC
		Output signal	:	TTL
		Sensing range	:	0-10 mm
<b>Magnetic Sensor</b>	:	Operating input voltage	:	5V DC
		Output voltage	:	5V DC
		Sensing range	:	0-20mm
<b>Inductive Proximity Sensor</b>	:	Operating input voltage	:	12V DC
		Sensor type	:	PNP
		Output voltage	:	12V DC
		Sensing range	:	0-10 mm
		Switch type	:	1NO
		Body	:	Cubical
<b>Capacitive Proximity Sensor</b>	:	Operating input voltage	:	12V DC
		Sensor type	:	PNP
		Output voltage	:	12V DC
		Sensing range	:	0-10 mm
		Switch type	:	NO
		Body	:	Cubical
<b>Output Circuit</b>	:	LED and Buzzer		
<b>Test Points</b>	:	8 nos		
<b>Dimensions (mm)</b>	:	W 326 x D 252 x H 52		
<b>Power Supply</b>	:	110V - 260V ±10%, 50/60Hz		
<b>Weight</b>	:	1.5 Kg. (approximately)		
<b>Operating Conditions</b>	:	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, Techbook Power Supply, Mains cord-1 No.(each)