

36371 Experimental TrainingBoard has been designed specifically for the study of promixity sensors & transducers which provide the basic knowledge of sensing or detecting metallic and non metallic signal conditioning of the signals received from the sensors and transducers.

Practical experience on this board carries great educative value for Science and Engineering Students.

## Object

- 1. To Study the Inductive Proximity Sensor as a Metal Detector.
- 2. To Study the Capacitive Proximity Sensor as an Object Detector.
- 3. To Study the Optical Sensor as an object Detector.
- 4. To Study Hall Effect Sensor as a Magnetic Pole Detector.

## **Features**

The board consists of the following built-in parts :

- 1. On Board Inductive Proximity Sensor. Operating input voltage: 12V DC : PNP Sensor type Output voltage : 12V DC Sensing range : 0-10 mm Switch type : NO Body : Cubical 2. On Board Capacitive Proximity Sensor.
- Operating input voltage: 12V DC : PNP Sensor type Output voltage : 12V DC Sensing range : 0-10 mm Switch type : NO Body : Cubical
- 3. On Board Optical Sensor Transmitter : IR LED

: 940nm Wavelength **IR Receiver** : Photo transistor Wavelength : 940nm Operating input voltage: 5V DC : TTL Output signal Sensing range : 0-10 mm

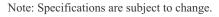
- 4. On Board Hall Effect Sensor (Magnetic Sensor). Operating input voltage: 5V DC Output voltage : 5V DC
  - Sensing range : 0-20mm
- 5. Outpur section BUZZER & LED Indicator for the object detection.
- 6. 5 & +12V D.C. at 100 mA, IC Regulated Power Supply internally connected.
- 7. Mains ON / OFF Switch, fuse and Neon Indicators are provided.
- 8. The unit is operative on 230V  $\pm 10\%$  at 50Hz A.C. Mains.
- 9. Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections & observation of waveforms.
- 10. Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 11. Weight: 2.100 Kg. Approx
- 12. Dimension : W 340 x H 125 x D 210

# List Of Accessories :

- 1. A Pair of Bar Magnet 50mm ......01
- 2. Patch cord 2mm-multipin 50cm. Red.....02
- 3. Patch cord 2mm-multipin 50cm. Black....02

# **Other Apparatus Required**

1. Cathode Ray Oscilloscope 20MHz



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