

OMEGA TYPE ETB-274 Experimental Training Board has been designed specifically for the study of proximity 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:-

- 01 To Study the Inductive Proximity Sensor as a Metal Detector.
- 02 To Study the Capacitive Proximity Sensor as an Object Detector.
- 03 To Study the Optical Sensor as an object Detector.
- 04 To Study Hall Effect Sensor as a Magnetic Pole Detector.

FEATURES

The board consists of the following built-in parts :

- 01 On Board Inductive Proximity Sensor.
Operating input voltage : 12V DC
Sensor type : PNP
Output voltage : 12V DC
Sensing range : 0-10 mm
Switch type : NO
Body : Cubical
- 02 On Board 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
- 03 On Board Optical Sensor
Transmitter : IR LED
Wavelength : 940nm
IR Receiver : Photo transistor
Wavelength : 940nm
Operating input voltage : 5V DC
Output signal : TTL
Sensing range : 0-10 mm
- 04 On Board Hall Effect Sensor (Magnetic Sensor).
Operating input voltage : 5V DC



- Output voltage : 5V DC
Sensing range : 0-20mm
- 05 Output section BUZZER & LED Indicator for the object detection.
- 06 5 & +12V D.C. at 100 mA, IC Regulated Power Supply internally connected.
- 07 Mains ON / OFF Switch, fuse and Neon Indicators are provided.
- 08 The unit is operative on 230V ±10% at 50Hz A.C. Mains.
- 09 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 :

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

OTHER APPARATUS REQUIRED

- 01 Cathode Ray Oscilloscope 20MHz
OMEGA TYPE CRO-20

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

OMEGA ELECTRONICS