



SALIENT FEATURE

Facilitates easy and safe wiring by Student due to 4mm sturdy shrouded banana patch cords and shrouded socket arrangement for high voltage circuits.

Each panel has ABS molded plastic sturdy enclosure, and colorful screw less overlays showing circuit diagram & its connection tag nos. for easy understanding & connections. Set of Instructor Guide & student Workbook

Technical Specification

A] Aluminum profile modular panel rack system (Table top) carrying various components housed in plastic enclosures (panels) to minimize shock possibility in top two rows. The bottom two rows hold a wooden door with different sensors mounted on it.

1 phase AC & 12VDC/3A Input supply panel(TMT8)

- 12VDC /3A supply
- 3nos of 230VAC supply with fuse protection & on-off switch for each

Lamp panel (TMT7)

- Incandescent lamp (15W)=3no
- Bulb on-off switch for each bulb

Relay panel (SEP-03)

- 8 nos of LED Indicators
- 8 nos of relay with coil rating of 12VDC & contact rating of 220VAC/1A.

PIR motion sensor panel (TIT9)

- Passive infrared sensor
- Relay output contact with load 1200W max (GLS lamp), 600W max (CFL TL)
- Supply voltage 230VAC
- Detection angle 150 degree
- Preset for Lux level 10 lux to 2000lux, time 20 sec to 20min, sensitivity setting preset under the cover.

Ultrasonic motion sensor panel (TIT10)

- Ultrasonic sensor
- Supply voltage 230VAC
- Relay output contact with load 15A incandescent, electronic or magnetic fluorescent ballast
- Detection angle 360 degree
- Detection range 1000SF
- reset for Lux level 20 lux to 300 lux, time 30 min, sensitivity setting preset under the cover.

Window safety sensor panel (TIT11)

- Window door open up to 90 degree
- Diffuse photo sensor with 12-24VDC operated, sensing distance of 300mm, emitter source if red LED, NPN open collector output with max load current of 100mA.

- Through beam photo sensor with 12-24VDC operated, sensing distance of 10 meters, emitter source of red LED, NPN open collector o/p with max load current of 100mA.
- Magnetic reed switch with NC contact rating of 12VDC/ 100mA, sensing distance of 25mm.

Output camera panel (TIT12)

- **Integral Unit Containing:** • Output camera • Bell switch • Microphone • Loud speaker • Infrared sensor • Visual angle 92°

Indoor video panel (TIT13)

- Color video monitor with three keys, monitor, Unlock & talk
- Screen size 3.5 • 12VDC supply operated

Door safety panel (TIT14)

- Simulated wooden door with size of 370 (L) X 400(H) X 70(W) with mechanical key lock
- Electric strike lock 12VDC/950mA operated, holding capacity of 600lbs
- Electromagnetic door lock 12VDC/2A operated, holding capacity of 230Kg.
- Glass break cum magnetic sensor 12VDC/22mA operated with NC contact of rating 25VDC/100mA

Siren with flasher panel (TAT5)

- Operating voltage: 12VDC@500mA
- Power: 6W
- Sound Level: 105dB
- Flashing rate: 150/min.

List of Experiment

- 1.To work with PIR (Passive infrared) motion sensor.
- 2.To work with Ultrasonic motion sensor.
- 3.To work with diffuse photo sensor .
- 4.To work with through beam photo sensor.
- 5.To work with magnetic reed switch.
- 6.To work with electric strike lock.
- 7.To work with electromagnetic door lock.
- 8.To work with glass break (vibration) cum magnetic sensor.
- 9.To work with video door phone & remote door control.

Mechanical Dimension (mm)

1170(L) X 3020(W) X 990(H)

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tesca.in