



Introduction

It is basic training course in Fire alarm annunciation technology. The training system consists of various types of Fire sensors like smoke detector, thermal detector, gas detector & annunciation devices and ancillary components used in fire alarm wiring technology.

Features

- 01 Facilitates easy and safe wiring by students due to use of 4mm sturdy Shrouded banana path cords & shrouded socket arrangements.
- 02 All Panels are mounted on finely painted sturdy base frame with easy Panels interchangeability.

Panels Provided

| SN. | Name of Panel | Order Code | Qty. |
|-----|---|------------|------|
| 01 | Aluminum Intruder Alarm System Trainer Rack | 69700 | 01 |
| 02 | Single Phase Power Supply | 69501 | 01 |
| 03 | Emergency Push Button | 69518 | 01 |
| 04 | Alarms | 69519 | 01 |
| 05 | Stand-By Battery | 69542 | 01 |
| 06 | Fire, Intrusion and Gas Alarm Control | 69543 | 01 |
| 07 | Microwave sensor | 69547 | 01 |
| 08 | Infrared Passive Sensor | 69548 | 01 |
| 09 | Perimeter Sensor | 69549 | 01 |
| 10 | Blinker | 69550 | 01 |

Accessories Provided

| SN. | Description | Qty. |
|-----|---|------|
| 01 | Shrouded connecting leads 4mm 50cm Red | 05 |
| 02 | Shrouded connecting leads 4mm 100cm Red | 05 |
| 03 | Shrouded connecting leads 4mm 50cm Black | 05 |
| 04 | Shrouded connecting leads 4mm 100cm Black | 05 |

List of Experiments

| SN. | Name of Experiment | Panels Required |
|-----|-------------------------|---|
| 01 | Microwave Sensor | 69501, 69518, 69519, 69542, 69543, 69547, 69550 |
| 02 | Infrared Passive Sensor | 69501, 69518, 69519, 69542, 69543, 69548, 69550 |
| 03 | Perimeter Sensor | 69501, 69518, 69519, 69542, 69543, 69549, 69550 |

Note: Specifications are subject to change.

DETAILS OF MODULES



1. SINGLE PHASE POWER SUPPLY
Order Code - 69501

Single Phase Power Supply is designed to familiarize students with various methods of protection of power circuits. It has been made with safety and protection in mind and with strong insulation

Procedure

- 01 Connect the Input AC Voltage at Input
- 02 Switch ON the Two Pole MCB Terminal
- 03 Turn the key lock switch
- 04 Check the light indication
- 05 Observe the Output at Output Terminal



2. EMERGENCY PUSH BUTTON
Order Code - 69518

Emergency stop push button are a must for automated machines and plants in an emergency. Anyone pressing the button immediately puts a machine in a safe state by stopping the hazardous movement. The emergency push button module has a red emergency push button. The switch has one contact. The module has been made with safety and protection in mind

and with strong insulation.

- 01 Connect the emergency switch in the circuit
- 02 Normal condition the contact are connect
- 03 When we press the switch than contact are break
- 04 After that the emergency switch move in clockwise direction for further use.



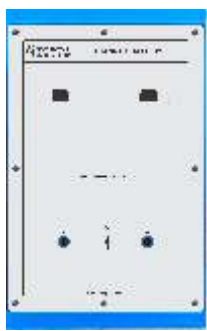
3. ALARMS
Order Code - 69519

An alarm device or system of alarm devices gives an audible, visual or other form of alarm signal about a problem or condition. Alarm module comes with a buzzer and a red LED optical indicator. The module has been made with safety and protection in mind and with strong insulation.

- 02 Check the RED LED optical indicator blink and hear the sound

Procedure

- 01 Apply the input 230V AC at input terminal



4. STAND BY BATTERY
Order Code - 69542

Standby batteries are meant to act as an emergency power source where the main power source has failed for some reason. Consequently, standby batteries are kept fully charged so that they can "kick in" immediately. A storage battery held in reserve as an emergency power source in event of failure of regular power facilities at a radio station or other location.



5. FIRE ALARM CONTROL PANEL
Order Code - 69543

Eight multifunction programmable input control unit for fire, intrusion and gas detection.

- 01 Anti-sabotage line, 24h
- 02 Outputs at 12V for power supplying the sensors
- 03 Output at 14V for charging the battery.
- 04 Programmable alarms relays
- 05 Power supply from mains.

Note: Specifications are subject to change.

DETAILS OF MODULES



6. MICROWAVE SENSOR

Order Code - 69547

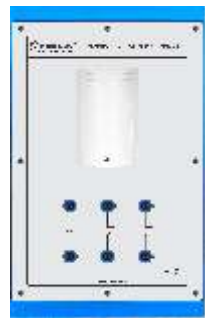
Combined infrared and microwave detector with either AND or OR operating modes.

Range: 10 meters and 1100.

High level of immunity from radio frequencies.

Operating temperature from -50C to +500C.

Power Supply: 12VDC



7. PASSIVE INFRARED SENSOR

Order Code - 69548

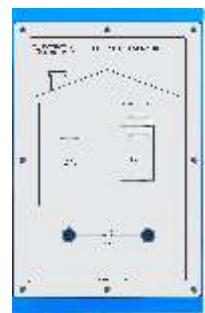
Volumetric, passive infrared sensor.

Range: 10 meters and 1100

High level of immunity from radio frequencies.

Operating temperature from -100C to +400C.

Power Supply: 12VDC



8. PERIMETER SENSOR

Order Code - 69549

Magnetic contact materials sensor for the protection of the entrances (door, windows, etc.)

The magnetic contact is made of two blocks: in one block there is a permanent magnet and in the other one a reed relay with a NO alarm contact.

Contact Range: 0.5A



8. BLINKER

Order Code - 69550

Big round warning light can serve as a striking warning signal for safety; suitable for the security booth, road entrance, construction site, airport, etc.

This product only has flashing light warning, no sound effect.

Size: Approx. 100 x 75mm/ 3.94 x 2.95 inch (Dia. x H)

Working Voltage: 12V DC, 120mA

Flashing Frequency: 90 times/min



9. ALUMINUM FRAME - MODULAR PANELS

Order Code - 69700.

Aluminum Intruder Fire Alarm System Rack madeup aluminium profile size 40×40mm, foldable and light in weight 10 panel setup can be interchange conveniently to perform experiments. Dimention Length 1100 × Hieght 1000×Depth 350mm.

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