

SENSORS TRAINERS

ST-9000

EDU-LABS



INTRODUCTION

The sensors trainers ST-9000 are composed of actual industrial grade sensors, pneumatics and electro-pneumatics parts which are commonly apply and used in industrial field. It is classified into basic level for basic knowledge and control method and advanced level for high level control.

It is easily customizable in modular the logical analysis of electrics circuits, design and wiring in sensors, pneumatics and electro-pneumatics training experiments, which is included electric control for pneumatic sequence control. The expansion and compatibility of this system was considered with a 4mm binding post banana socket. Sensor protection circuit was integrated for the safety of the training set.

It uses a standard plug-in profile panel for common use of all the training set. Each part could be horizontally or vertically attached and detached on the profile panel without any tools.

FEATURES

- Modular design allows modifications to suit needs/requirements of the course/students
- Custom sizes for the plug-in profile panel can also be provided upon request.
- Additional modular components can are also available separately should the need arise.
- High quality durable rubber-silicone compound gourmet on the plug-in profile panel ensures that the components stay in place yet smooth enough to ease removal and placement of components.
- Comes with high quality industrial grade components.
- Unit comes with various height (tilt) settings

INPUT:

a) Mechanical Actuation – Roller Lever

- High 15A switching current, Standard type G operation, Screw terminal connections, Body size 49x17.5x24mm, Contact rating 250VAC 15A, 10-30VDC 15A, Mechanical life 20x10³ operations min. Temperature rating -25°C to +80°C

b) Proximity sensors

- Magnetic Reed Switch (N.O),
- sensing distance: 25mm, Form A, B (SPST Switch), operating voltage 10-30vdc, output type: normally open High power switches

c) Capacitive Proximity Sensors

- Sensing distance: 25mm, stainless steel body, PBT sensing face, adjustable sensitivity, operating voltage 10-30vdc, output type: NPN, normally open

d) Inductive Sensors (NPN, N.O)

- Sensing distance: 25mm, stainless steel body, PBT sensing face, adjustable sensitivity, operating voltage 10-30vdc, output type: NPN, normally open

e) Photoelectric sensors (Reflex Light Sensor) Type: Reflex light sensor

- sensing distance: 25mm, selecting dark/light, adjustable sensitivity, operating voltage 10-30vdc, output type: NPN, normally open

f) Photoelectric sensors (Reflex Light Barriers) Type: Reflex Light Barriers

- sensing distance: 25mm, selecting dark/light, adjustable sensitivity, operating voltage 10-30vdc, output type: NPN, normally open, selecting dark/light)

g) Photoelectric sensors (Light Barriers) Type: Light Barriers

- sensing distance: 25mm, selecting dark/light adjustable sensitivity, operating voltage 10-30vdc, output type: NPN, normally open,

h) Temperature sensors

- sensing distance: 50mm, adjustable sensitivity, operating voltage 10-30vdc, operating temperature range -50°C to 150°C

i) Light Dependent Resistor (LDR)

- Operating voltage 10-30vdc, Light resistance at 10 lux (Kw)
- 40Kohm to 150Kohm, Dark resistance -20Mohm,

OUTPUT

- a) DC Motor – Operating voltage 10-30vdc
- b) Lamp - Operating voltage 10-30vdc
- c) Fan – Operating voltage 10-30vdc
- d) Buzzer – Operating voltage 10-30vdc
- e) Timer – Operating voltage 240vac/10-30vdc, type solid state, 8 pin connector,
- f) Counter – Operating voltage 240vac/10-30vdc Multifunction Preset Counter with a Bright, Easy-to-view, Negative Transmissive LCD.

Note: Specification, Layout, Design etc. May Change Without Prior Notice For Products Continuous Development Process.