



Part Conveyor Training System

Category: Mechatronics · Model reference: MZM-2016



SPECIFICATIONS

The Conveyor Training System is an ideal training system to those who are in charge of automating high volume production lines. The system offers most realistic environment possible to maximize educational efficiency. Pneumatic valves and cylinders, and an optional PLC Trainer series are the main components of the simulated environment.

Specification:

Part selection by logical detection

Introduction of pneumatics. Realistic simulation of an automated factory Object detection Performing measurement on locating hole positioning Easy relocation of sensors, cylinders or the entire system 5-sensor & 4-Air cylinder controls with 4-solenoid valve Sensor detect the physical dimensions of an object places on the induction and

Opto-electronic sensors. Can be interfaced with all PLC types. Comprehensive courseware manual. Introduction of motion control Count and Timer Control. Diverse decision making processes. Manipulating component.

COMPONENT SPECIFICATION:

PLC application model, conveyor belt

The conveyor comprises a single-track belt, a 24V DC servo motor, an optical and an inductive sensor for work piece identification. The unit is suitable for teaching PLC programming and for understanding the function of various sensors. In addition, the method of defining a position via a fast counter can be taught. The mechanical construction of the conveyor, using a profiled system, allows extra sensors to be fitted.

- 3 digital inputs
- 2 digital outputs
- Conveyor with single-track belt
- Optical proximity switch
- Inductive proximity switch
- DC servo gear motor 24V with incremental sensor
- Motor drive module with adjustable speed and relay for CW/CCW rotation
- 1 SUB-D 37-pin plug (input signals) for connecting PLC via system connector
- 1 SUB-D 37-pin socket (output signals) for connecting PLC via system connector
- 3 work pieces Ø 50mm, height 50mm (aluminum, plastic black, plastic white)

EXPERIMENT TOPICS:

- Introduce sequential control
- Initial process condition can be set
- Introduce to interrupts Interrupt device control Timed sequence control
- Windows base operating programming
- Fundamentals of Logic
- Developing Ladder Logic Programs
- Programming timers
- Structure of Control Systems
- Sequencer Programs
- Master Control and Zone Control Instruction
- Programming Counters
- Jump Instruction and Sub-routines Combined counter and timer functions PLC Installation Practices

ACCESSORIES:

Handbook : Real Process Model with CD

- Connecting cables for drive unit to switches, LED, relays & other peripherals.

- Connection cable
- Experiment manual and transparency
- Safety connection cable (2mm) 150cm red
- Safety connection cable (2mm) 150cm blue
- Safety connection cable (2mm) 150cm white

Country of Origin

Malaysia

Warranty

12 months warranty against manufacturing defects



