



Conveyors are basically material handling equipments. Conveyors are used for moving materials over a fixed path. There is a broad range of types of conveyor systems. Wheel conveyor, Roller conveyor, Chain conveyor, Magnetic conveyor, Pneumatic conveyor are some the major types.

Conveyors are used :

- When material is to be moved frequently between specific points
- To move materials over a fixed path
- When there is a sufficient flow volume to justify the fixed conveyor investment

Conveyors can be classified in different ways :

- Type of product being handled: unit load or bulk load
- Location of the conveyor: overhead, on-floor, or in-floor

Sciencetech 2425 Conveyor Control by PLC is a Flat Belt Conveyor system. It consists of two Sensors. One is IR Sensor and other is Proximity Sensor. Belt is driven by a DC motor. Output of Proximity Sensor, output of IR Sensor are the inputs of PLC Motor direction and buzzer are the outputs of PLC. Some additional I/Os also given for user.

Features

- User friendly and powerful instruction sets
- Ready to use application board
- On board buzzer, Proximity Sensor, IR Sensor, DC motor
- On board conveyor
- Online Product Tutorial

Scope of Learning

Study and use of:

- Conveyor
- Memory bit, timers, counters, compare instruction
- IR sensor, Proximity sensor, push to on switch
- DC motor
- Conveyor control by PLC through ladder program
- How to count metallic container using a proximity switch?
- How to run and control conveyor in manual and AUTO mode using a PLC?

Technical Specifications

Digital Input pin voltage	: 24VDC when particular I/P is activated from PLC
Digital Output pin voltage	: 5VDC when particular O/P is activated from PLC
Interface	: PLC (Scientech 2400X Series)
Buzzer	: +5V DC
Proximity Sensor	: +24V DC output
IR Sensor	: +24V DC output
DC Motor	: +5VDC
Mains Supply	: +5V & +24V
Dimension (mm)	: W 300 × D 40 × H 120
Weight	: 1.25 Kg (approximately)
Product Tutorial	: Online on www.ScientechLearning.com
Operating Conditions	: 0-40°C, 85% RH
Included Accessories	: Patch cord 16" (2mm) - 10nos. Metallic containers-2nos. Non metallic containers -2nos. Product Tutorial -1 no.