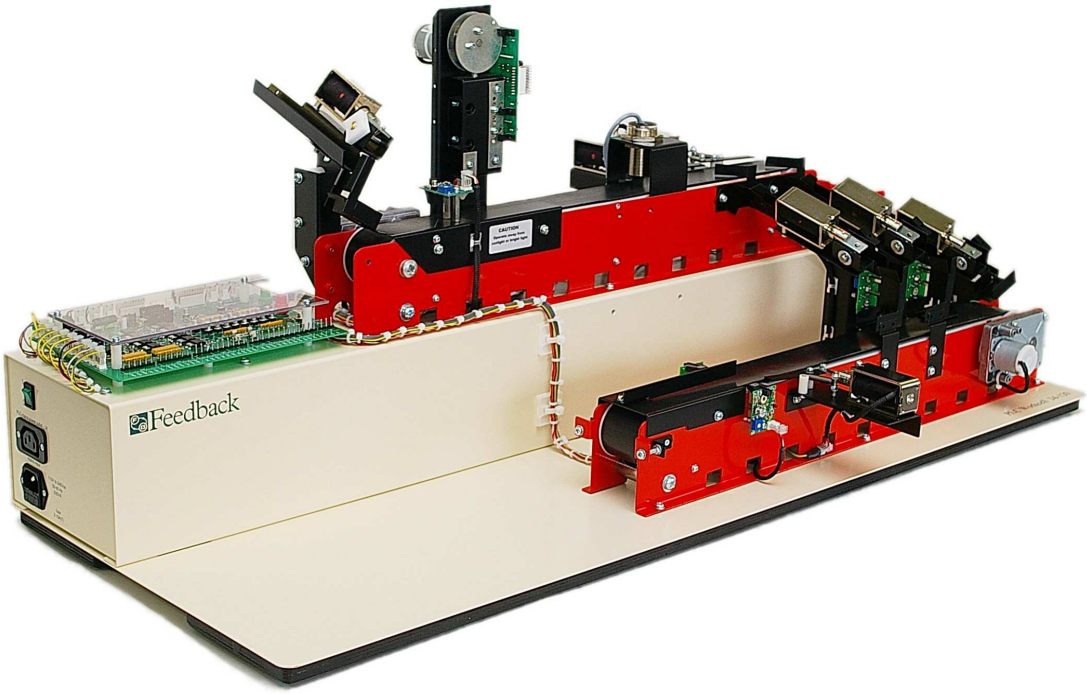
Dual Conveyor Workcell – PLC Application 34-120-1



Introduction

Programmable Logic Controllers (PLCs) are used extensively in many manufacturing processes and control applications being readily programmed and reprogrammed when variations in the controlled process are required.

Description

The added complexity of this dual conveyor system allows greater study of PLCs in process control systems. More complex control scenarios can be developed using combinations of timers and counters with master and zone control functions. The self-contained unit comprises a power supply, interface board and a range of sensors and solenoid actuators and a height gauging unit. The interface circuits allow the conveyor system to be operated from any standard industrial PLC using 24 V dc logic levels. We offer PLCs or you can use your own. There are connections provided on the interface board to drive the optional Diameter Gauging Unit, 34-110.

Optional Diameter Gauging Unit 34-110

The addition of a second gauge unit to measure component diameter allows programs of greater complexity to be developed. The programming of the detector is an excellent introduction to the use of logical detectors for in-process inspection and quality control.

Features

- Part selection by logical detection
- Induction and opto-electronic sensors
- Component sort and assembly process
- Interfaces to most major PLC types
- Comprehensive courseware manual

Curriculum Coverage

- Fundamentals of logic
- Basics of PLC Programming
- Developing ladder logic programs
- Programming timers
- Programming Counters
- Structure of control systems
- Sequencer programs
- Jump instructions and subroutines
- Combined counter and timer functions
- PLC installation practices

PLC Digital I/O Pack and Digital I/O Pack Pre-Wired Options

Programs are available for specific PLC configurations that are available as component parts or as complete pre-wired units. The following component parts are supported:-

Allen Bradley:- AB1766-L32BXB + AB1762-OW16 + AB1761-CBL-HM02.
Mitsubishi:- FX3U-16MT/DSS + FX2N-8EX-ES/UL + FX2N-16EYR-ES/UL + FX3U-USB-BD.
Siemens:- 6ES7 212-1AE31-0XB0 + 6ES7 223-1PL30-0XB0 + 6XV1 850-2GH10.

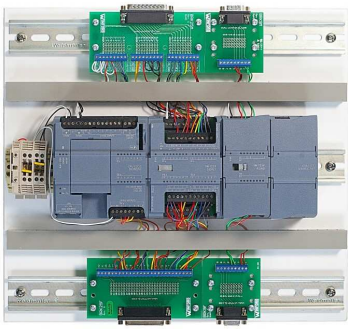
The PLC options include Digital I/O Pack or Digital I/O Pack pre-wired versions. The pack includes PLC hardware, PLC Programming software, Power supply and leads.

PLC Pre-Wired Boards

Available on a pre-wired board, with the appropriate PLC pack wired to multi-way connectors, enabling plug and play capability with the range of PLC applications.

PLC Requirements 34-120-1
Inputs to PLC - 11, Outputs from PLC - 11

With Optional Diameter Gauging Unit 34-110
Inputs to PLC – 16, Outputs from PLC - 12



Typical pre-wired PLC pack

Ordering information

Dual Conveyor Workcell – PLC application 34-120-1
Diameter Gauging Unit – optional 34-110
PLCs – essential, can use your own or purchase as follows:

	Digital I/O Pack	Digital I/O Pack Pre-Wired
Mitsubishi	34-020	34-020-1
Allen Bradley	34-040	34-040-1
Siemens	34-060	34-060-1

Feedback

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Feedback reserves the right to change these specifications without notice.