Dual Conveyor Band with PLC (E6.7.2.3)

E6.7.2

MECHATRONICS

E6.7.2.3
Dual Conveyor Band with PLC

Cat. No.	Description	E6.7.2.3
34-120-1	Dual Conveyor - PLC Application	1
34-060	Siemens PLC	1*
34-060-1	Siemens PLC I/O Pre-wired Pack	1
34-020	Mitsubishi PLC	1*
34-020-1	Mitsubishi PLC I/O Pre-wired Pack	1*
34-040	Allen Bradley PLC	1*
34-040-1	Allen Bradley PLC I/O Pre-wired Pack	1*
34-110	Diameter Gauging Unit	1*
	additionally required: 1 PC with Windows 7/8/10	

* alternative PLC

Dual Conveyor Band with PLC

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. 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.

Educational objectives

- Two complex conveying systems can be used to process complex tasks.
- Parts selection by means of logic detection and sensors.
- Test and optimize programming on a hardware

Topics

- Logic fundamentals
- Basics of PLC programming
- Developing ladder logic programs
- Programming timers
- etc.

Experiments require the Siemens software TIA Portal to create programs.
The equipment can require additional software modules.