Scientech

Motor & Switches Control by PLC

Scientech 2427

Motor & Switches Control by PLC Scientech 2427 enables Student and practicing Engineers to gain invaluable experience of the principal and application of Programmable Logic Controller.

The objective is to connect and program an external Programmable Logic Controller to monitor and control the Stepper motor, thumbwheel and limit switch.

Motor and Switches control are shown with the help of LED. The Stepper motor is connected to output of PLC. Thumbwheel switch, limit switch are connected to input of PLC. Thumbwheel switch and limit switch are used as an application to run Stepper motor. Thumbwheel switch is used to convert BCD to binary value provided input to PLC.

Features

- User friendly and powerful instruction sets
- Ready to use application board
- On board Stepper motor, thumbwheel switch and limit switch
- Online product tutorial

Scope of Learning

Study and use of:

- Stepper motor, thumbwheel switch and limit switch
- PWM (Pulse Width Modulation)
- Stepper motor, thumbwheel switch and limit switch control by PLC through ladder program
- Speed control of Stepper motor using a thumbwheel switch
- How to step (position) control of Stepper motor using a limit switch
- How to run Stepper motor in clockwise and anticlockwise direction?

Technical Specifications

Interface	:	20 pin FRC cable with PLC (Scientech 2400X Series).
Digital input pin voltage	:	24V DC when particular Input is activated from PLC
Digital output pin voltage:		5V DC when particulars output is activated from PLC.
Stepper motor	:	5V DC
Thumbwheel switch	:	+ 24V DC
Limit switch	:	+ 24V DC
Power supply	:	From PLC
Weight	:	420 gms. (approximately)
Weight	:	W300 x H120x B40
Product Tutorial	:	Online on www.ScientechLearning.com
Operating conditions	:	0-40°C, 85% RH
Included Accessories	:	20 Pin FRC cable -1 no.
		Product tutorial -1 no

Subject to Change

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