

Product Name :
PLC Application Materials Handling Process with PLC Module

Product Code :
AR325



Description :

PLC Application Materials Handling Process with PLC Module

Technical Specification :

PLC Application: Materials Handling Process with PLC Module
Compact unit for experiments in the field of automation
Handling device with solenoid valves
Double-acting cylinder (15mm stroke): fixing / discharge of workpieces to container
Double-acting cylinder (80mm stroke): pushes workpiece onto conveyor belt
Double-acting cylinder (40mm stroke): executes the process (sorting or punching)
Conveyor belt with guide plates and dc motor
Cylindrical plexiglas storage container holding 11 workpieces
15 workpieces made of polyoxymethylene (pom): 10x white, 5x black
Pneumatic components fitted with quick-release couplings for 4mm hoses
Operation of actuators with compressed air
Lab jacks to external plc
Set of laboratory cables and pneumatic hoses
Compressed air supply: max. 6bar, 3bar recommended.

Technical Data:

3 electrically operated 5/2-way valves
With spring return
With pilot valve
Reflex photoelectric proximity switch

PNP, light-switching
5...150mm
Geared DC motor
Reduction ratio: 142,5:1
Nominal torque 5,92nm
Nominal speed: 22rpm
Polyester weave conveyor belt
Workpieces, DxH: 40x20mm
PLC module
Familiarisation with the essential fundamentals such as
Boolean algebra
Compiling statement lists
Interconnection diagrams and block diagrams
Exercises in
Programming
Logical "and" / "or" gates
Logic relays
Output and input
Configuration of program sequences by way of connectors, incorporating
Timers
Counters
Cascade circuits
Higher-order monitoring relays etc.
Fault finding
Module for basic exercises on a programmable logic controller (plc)
Self-contained plc module, usable as part of a complex system
Integrated patch board for creating circuits with input and output elements
PLC with 2 integrated set point encoders
Programming software to IEC 61131-3; software via USB under Windows 7, 8.1, 10 including PC1 Computer-System with 21" TFT-Monitor Win 10 engl.
example program supplied

Technical Data:

PLC
Connections
16 digital inputs
16 digital outputs
2 analogue inputs
1 analogue output
Memory type: PLC back-up battery for 32kbyte ram and clock
Rated voltage: 24VDC
Software
Graphical user interfaces
Programming languages to iec/en 61131-3:

Statement list (stl)
Ladder diagram (ld)
Function block diagram (fbd)
Structured text (st)
Multiple dialogue languages (german, english, french, spanish)
Graphical topology configurator
230V, 50Hz, 1 phase
With accessories

Set of instructional material/manuals in hard and soft copy
Installation, commissioning and training included

Naugralabequipments

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