

The PLC based Linear Bottle Filling Plant gives an idea regarding usage of Programmable Logic Controllers in industrial application



TECHNICAL SPECIFICATION

PLC	Siemens Logo (8 DI/4 DO) / Equivalent, Actual Plant I/O: Digital Inputs- 4 , Digital Outputs- 2
Storage Tank	8''(L)×8''(W)×10''(H)
Motor	230V AC Single phase, Bi-directional, 30 RPM, 20 Kg/cm ²
Level Switch	Float operated, Float Material: SS304, Switching voltage: 230 VAC/200 VDC. Switching Current: 2A, Switch Action: Reversible. Weight: 315 Grams
Indicating Lamps	4 nos. 24 VDC Operated
Solenoid valve	24V DC, ¼"size.
Conveyor Belt	100 mm ×2310 mm, Green
Coolant Pipe-	¼" Connection, 1' Length
Proximity Sensors	Type: Inductive, 3 wire, Diameter: 18 mm, Sensing Distance: 5 mm.

Features-

- Compact Ergonomic Design.
- User Friendly, Self Explanatory Systems.
- Leak proof Safety Measures, sturdy piping & Robust Construction.
- Enhanced Electrical Safety Considerations.
- Training Manuals & mimic Charts for Operation Ease.
- M.S. powder coated cubical plant with standard Instrument Mountings.
- Inbuilt Safety Measures to avoid improper usage.
- Computer Interface (Optional).
- PLC with 8 DI/DO & PC-PLC communication cable (Optional), standard Program.

Range of experiments-

- Study of PLC programming.
- Demonstration of bottle filling plant
- Study of application of solenoid valve, level switches and proximity switches.

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tescaglobal.com

System Components-

- Conveyor system with motor for movement of bottle.
- Proximity sensor for sensing bottle positions.
- Liquid filling Operation.
- Bottle count operation.
- Solenoid valve for control of liquid filling.
- Control panel for visual indication of process.
- Computerized control system trainer (optional).
- System Dimension- 4.5 Ft. (L) X 1 Ft. (W) X 2 Ft. (H)

Services Required-

- Electric Supply of 1φ 230 VAC
- Water supply and drainage arrangement.

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tescaglobal.com

