Central Control Unit for Vacuum Systems

Compact Terminal SCTSi

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Central control unit for vacuum systems

The compact terminal SCTSi is sort of the masterpiece of our engineers, a compact and powerful unit for vacuum generation in automated systems. Now Schmalz has enhanced the Ethernet version of the terminal by adding new modules. Via an IO-Link master that can be integrated into the terminal, field devices can be connected via IO-Link and thus communicate directly with the PLC. Digital field devices such as sensors are integrated via digital input modules – without separate I/O modules. The terminal thus becomes the central control unit for vacuum gripping systems.

Applications
• Compact terminal for simultaneous, independent handling of different parts with only one vacuum system
• Handling of airtight and slightly porous workpieces
• Central unit for vacuum generation, control and monitoring
• Integration into fully automated handling and production systems

Compact terminal SCTSi Ethernet used for handling batteries with several vacuum circuits

Product Highlights

Simple wiring
• Central compressed air and power supply for up to 16 ejectors
• Direct connection to the controller via only one data line
• Space saving (no additional IO-Link master or I/O modules)

Fast integration
• Only one device needs to be configured
• Only one station in the network, even if devices are connected to the SCTSi

Versatile applications
• Simple construction of different, individually controllable vacuum circuits
• Single and multi-stage vacuum generation
• Ejectors are individually selectable according to nozzle size, NO/NC/impulse or nozzle type

Full process transparency
• Versatile diagnostic functions for condition monitoring and energy monitoring
• Data access via controller or smartphone

Lean
Modular
Networked
Intelligent
**Digital Input Modules**
- Connection of digital field devices (sensors)
- Up to 4 expansion modules with 4 ports each (M12-5 socket)

**IO-Link Master**
- Connection of intelligent field devices (sensors and actuators)
- Up to 2 expansion modules with 4 ports each (M12-5 socket)

**NFC Interface**
- Process and device parameters simply configurable via smartphone

**Bus Module**
- Interface for integration into various fieldbus systems
- **Ethernet** – Profinet / EtherCAT / Ethernet/IP
- **IO-Link** – IO-Link Class B with potential isolation

**Impulse Valves (IMP)**
- Ejector discs with bistable suction valve increase process reliability
- If the actuator voltage fails, the ejector remains in the last active state
- Valve requires only a short voltage pulse for switching

**Ejector Discs**
- Up to 16 ejectors, individually selectable according to nozzle size, NO/NC/impulse or nozzle type
- Automatic air saving function

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Simplified integration into the control level

Connection of various field devices to the PLC via the compact terminal SCTSi Ethernet

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