



Central Control Unit for Vacuum Systems

Compact Terminal SCTSi

WWW.SCHMALZ.COM/SCTSI-IO-LINK
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Compact Terminal SCTSi

Central control unit for vacuum systems

The compact terminal SCTSi is a compact and powerful unit for vacuum generation in automated systems. In addition to the Ethernet version of the terminal, Schmalz offers an IO-Link version with extensive additional modules. An IO-Link master that can be integrated into the terminal allows field devices to be connected via IO-Link and to 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.



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

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

Product Highlights

LEAN

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)

MODULAR

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

NETWORKED

Fast integration

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

INTELLIGENT

Full process transparency

- Versatile diagnostic functions for condition monitoring and energy monitoring
- Data access via controller or smartphone



Compact Terminal SCTSi

Full flexibility and functionality

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)

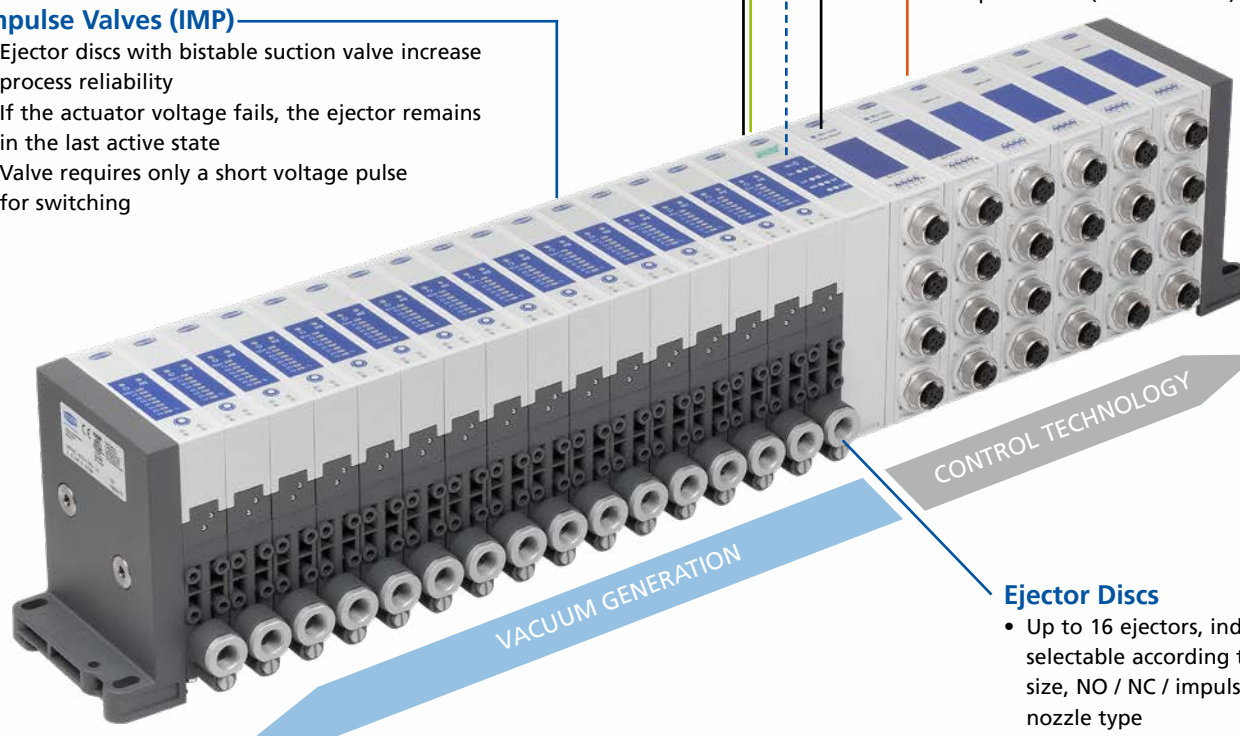
- Ejector discs with bistable suction valve increase process reliability
- If the actuator voltage fails, the ejector remains in the last active state
- Valve requires only a short voltage pulse for switching

IO-Link Master

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

Digital Input Modules

- Connection of digital field devices (sensors)
- Up to 6 expansion modules with 4 ports each (M12-5 socket)



— Ethernet — Vacuum line — IO-Link — Digital signal

Ejector Discs

- Up to 16 ejectors, individually selectable according to nozzle size, NO / NC / impulse or nozzle type
- Automatic air saving function reduces compressed air consumption by up to 80 %

Configuration and Ordering

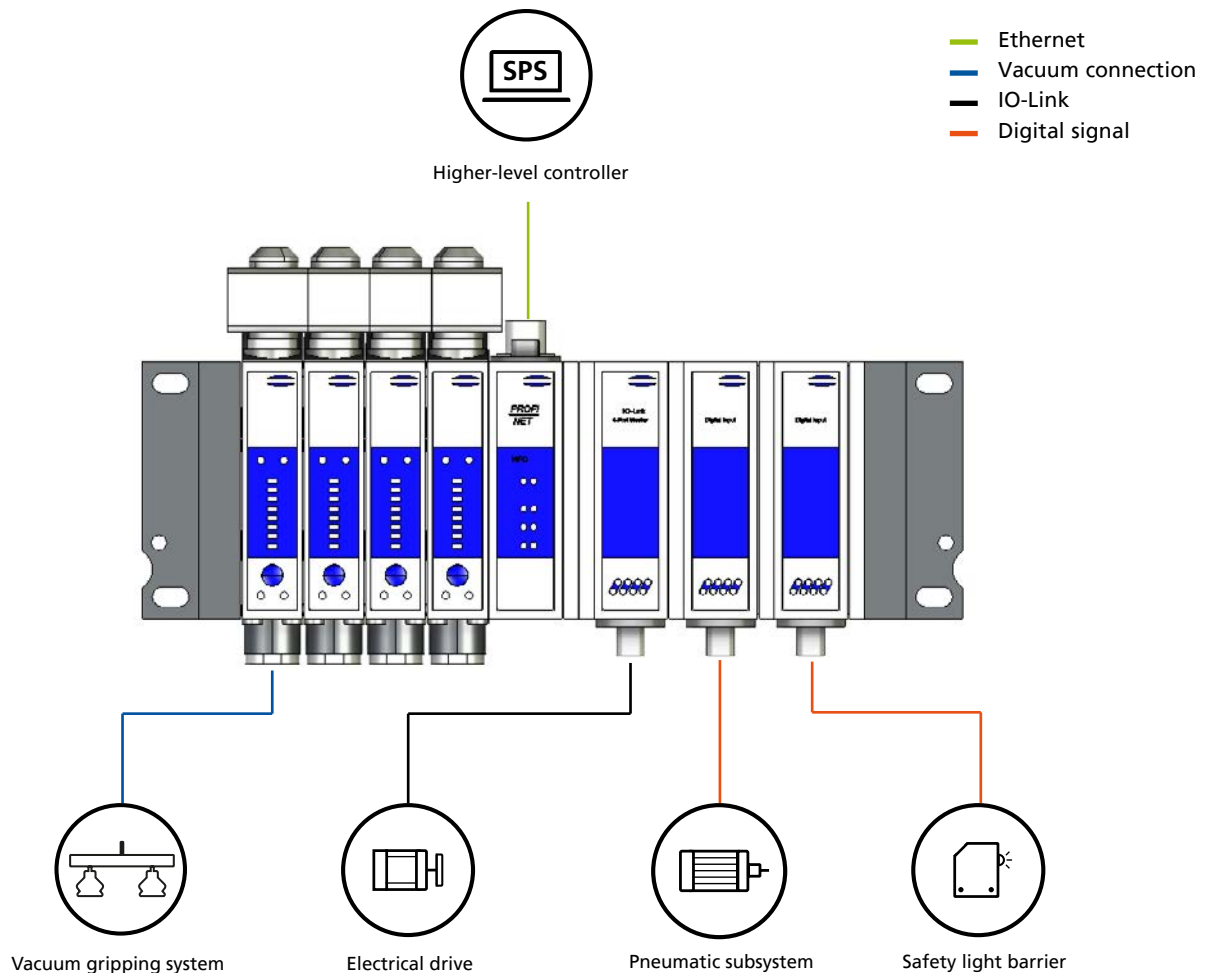
The compact terminal SCTSi is available in three different variants:

- Standard terminal
- Terminal with exhaust air duct and optional silencer for noise reduction
- Terminal with power blow-off for fast and process-safe depositing of workpieces

In addition, the compact terminal SCTSi is freely configurable. You can choose between different nozzle technologies, nozzle sizes and connection variants. Contact us for an individual design.

Compact Terminal SCTSi

Simplified integration into the control level



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

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