

Product



No. 1 Position

Highly integrated gripping module for demanding automation solutions

Features

Unique Features:

- ✓ Precise handling due to high positioning accuracy
- ✓ current based force control based on factory-provided calibration
- ✓ Accurate force measurement and control via optional force sensing fingers
- ✓ Integrated web server for configuration and diagnosis
- ✓ Supported interfaces: Profibus DP, CAN, Ethernet TCP/IP, RS232 and general-purpose digital I/O

Additional Product Highlights:

- ✓ Industrially approved connectors
- ✓ MicroSD-Card for storing program scripts and application data
- ✓ Remote diagnostics and service via Internet (e.g. updating the firmware)
- ✓ Retail price 2895,- € plus Tax. Force sensing finger: 579,- €

Market and Competition

Main Competitors

- ✓ Sommer
- ✓ Festo
- ✓ Afag

Product Advantages:

- ✓ Integrated gripper control. Can be directly connected via Profibus, Ethernet, CAN and RS232 interface
- ✓ Easily operated user interface provided via an integrated web server, no additional software required
- ✓ remote diagnostics and transmission of status e-mails
- ✓ Base jaws equipped with a standardized electrical interface, enabling the direct integration of additional sensors into the fingers
- ✓ Easy customization of the gripper's functionality via built-in user friendly script programming language.
- ✓ Power efficient thanks to internal energy management

Economy / Customer Benefit

- ✓ Safe handling of different grasping parts without tool change
- ✓ Low cycle times by high acceleration and speed, integrated part detection
- ✓ Intelligent gripping commands offload the customer's process controller
- ✓ Profibus-DP and Ethernet TCP/IP interface, results in highest flexibility for integration into the complete system
- ✓ Integrated web server for configuration/diagnostics using a standard web browser, enables easy initial setup and programming without the need of installing software
- ✓ Energy efficient

Technical Specification

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- ✓ Stroke per finger: 55 mm
- ✓ Grasping force: 5 N to 120 N (80 N nom.)
- ✓ Component weight: 0.8 kg
- ✓ Supply voltage: 24V
- ✓ Typical power consumption (idle/holding at nominal force): 2W / 15W
- ✓ Outer dimensions (LxWxH): 146x50x97 mm
- ✓ Weight: 1.2 kg

Industries and Applications

The WSG is particularly convincing in these areas:

Across industries, for sophisticated automation solutions, which require high flexibility and / or sensitivity of the gripping process is necessary.

- ✓ Medical Engineering
- ✓ Biotechnology
- ✓ Food Processing
- ✓ Measurement and Test
- ✓ Human-Machine-Cooperation, Service Robotics

Additional Information

This product is produced in cooperation with Weiss Robotics.

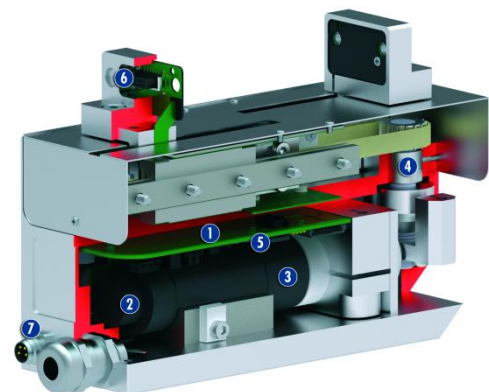
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Cross Section



1. Integrated gripper control
2. Encoder
3. DC-servomotor
4. Belt drive
5. MicroSD-card
6. Sensor Port
7. Electrical connector