



IO-LINK INTERFACE



IOLBOX FEATURES

- Up to 5 grippers.
- Simplify installation and configuration of the device.
- Monitor the status of the device.
- Allow advanced diagnosis functionalities.
- Easily replace a device with another of the same type.
- Suitable for all 16 size grippers (25,32).

IOLBOX
A UNIQUE DESIGN
FOR SEVERAL PRODUCTS



Using the IO-Link technology the IOLINK master communicates with IOLBOX sharing both process data and parameters.

Process Data

- Actuator commands (opening, closing, braking, etc...).
- Force reference value (gripping force limitation).

Parameters

- Actuator status (fully opened, fully closed, object gripped, error, etc...).
- Position of the jaws.

**IO-Link
MASTER**



IOLINK GATEWAY UNIT

The user can create a network of grippers where the **IOLBOX** is the unique IO-Link device that uses only one node of the external IO-Link master. The **IOLBOX** behaves as an IO-Link gateway toward a special digital version of Gimatic's standard electric grippers.

Junction node

Terminal node



**SEVERAL DIFFERENT
PLUG & PLAY GRIPPERS
CAN BE CONNECTED
TO THE SAME IOLBOX**



NEW



IO-LINK INTERFACE Communication Details

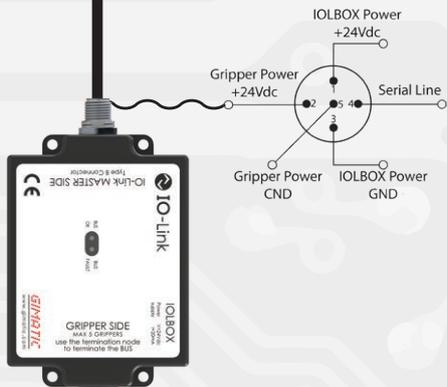


PLC

Fieldbus, Ethernet, Profibus, Profinet, ecc...



IO-Link Protocol



Data Exchanged (for each gripper)

Cyclic Data Input

- Open/ Close
- Force (%)

Cyclic Data Output

- Virtual Proximity Switch Position
- Position of the Jaws (0.1mm resolution)

Acyclic Parameters

- Slave ID*
- Code
- Batch
- Serial Number
- Firmware Edition
- Max Force (N)
- Device Stroke (0.1mm resolution)
- Mass (g)
- Number of Cycles Performed

Ordering Code
CM12CF12-4-15

*The slave ID is the identifier for each gripper. All the grippers receive the messages from the IOLBOX but only the one with the same slave ID will responde/execute the command. It must be set during installation, but it can still be modified for any need.

RS-485 Modbus



Ordering Code
CM12CF12CF8T4

- Baud Rate 9600.
- Differential A and B Channel.
- IOLBOX sends the cyclic data to each gripper cyclically, using the various Slave ID according to the grippers connected.
- The time to handle five grippers is about 400ms.
- Acyclic Parameters were read at time of the gripper connection.

Ordering Code
CM1200400TERM

Terminal node



NEW