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Q-Motion® Controller Module for C-885 PIMotionMaster

For Piezoelectric Inertia Drives, 1 Axis



E-873.10C885

- Broadband encoder input
- Macro programmable for stand-alone functionality
- Fast startup due to ID chip detection
- Data recorder
- PID controller, parameter changing during operation

Digital servo controller for piezo inertia drives
Integrated power amplifier and voltage generator for piezo inertia drives. Point-to-point motion, trapezoidal velocity profile, actuator mode for nanometer precision positioning at the target position. 1 axis.

Encoder input
Differential signal transmission for analog (sin/cos) encoder signals, BiSS interface for absolute encoders.

Extensive functions, software support
Powerful macro command language. Nonvolatile macro storage, e.g., for stand-alone operation with autostart macro. Data recorder. ID chip detection for fast startup. PID controller, parameter changing during operation. Extensive software support, e.g., for NI LabVIEW, C, C++, MATLAB, Python. PIMikroMove user software.

Plug-and-play installation in the C-885 PIMotionMaster
Can be inserted in any free slot. Automatic detection and external communication (USB, Ethernet) by the processor and interface module of the C-885. Can be expanded with optional digital inputs and outputs. Power via the power supply of the C-885.

Specifications

	E-873.10C885
Function	Q-Motion® controller module for positioning systems with piezo inertia drives, also suitable for closed-loop PiezoMikes for C-885 PIMotionMaster modular multi-axis controller system
Axes	1
Supported functions	Point-to-point motion. Startup macro. Data recorder for recording operating data such as motor voltage, velocity, position or position error. Internal safety circuitry: Watchdog timer. ID chip detection.

Motion and control	E-873.10C885
Controller type	PID controller, parameter changing during operation
Encoder input	Analog encoder inputs sine-cosine, interpolation selectable to 20000. Interpolation electronics preset for differential transmission, 1 V_{pp} and 2.5 V encoder offset signal. BiSS interface for absolute encoders.
Stall detection	Automatic motor stop
Input limit switch	2 × TTL (pull-up / pull-down, programmable)
Input reference switch	1 × TTL for integrated reference in the encoder

Electrical properties	E-873.10C885
Max. output power	30 W
Output voltage	0 to 100 V, drive-dependent selection

Interfaces and operation	E-873.10C885
Communication interfaces	USB or Ethernet, via C-885.M1 / C-885.M2 Digital processor and interface module
Motor connector/sensor connector	D-sub 15 (f)
I/O lines	Optional with C-885.iD Digital interface module for PIMotionMaster: 4 analog/digital inputs (0 to 5V/TTL), 4 digital outputs (TTL)
Command set	PI General Command Set (GCS)
User software	PIMikroMove
Application programming interfaces	API for C / C++ / C# / VB.NET / MATLAB / Python, drivers for NI LabVIEW

Miscellaneous	E-873.10C885
Operating voltage	24 V DC, supply via C-885 PIMotionMaster
Max. current consumption	1.5 A
Operating temperature range	10 to 40 °C
Mass	200 g
Dimensions	186.42 mm × 128.4 mm (3 RU) × 19.98 mm (4 HP)

Ordering Information

E-873.10C885
Q-Motion® Controller module for PIMotionMaster, 1 axis, for systems with piezoelectric inertia drive

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