

LC3 Controller

Concept

The LC3 controller from piezosystem jena is designed to run dual mode standing wave piezo-motors in quasi-static or dynamic positioning applications. It can be equipped for up to 3 axes.

The encoder of the connected piezo-drive guarantees a high positioning accuracy.

Piezo-motors can be controlled via PC or Joystick using the integrated USB 2.0 interfaces. Typical for piezo controllers offered by piezosystem jena, allow actuators with D-Sub plugs to be easily connected.

Piezo-motors will be automatically recognized by the LC3 due to the information which is stored inside the motor's connectors (ASI - Automatic Sensor Identification).

The 25pin D-Sub combines the input information from the encoder system and the output to the piezo-motor.

Features

- Control up to 3 axes simultaneously
- Cross-axis position feedback
- Dependent or independent control of the axes
- Parameter reading and writing
- Control via Joystick, PC or storable script
- Individual Positioning programming
- optional CAN bus e.g. CANopen (CAN FD ready)



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Product highlights:

- High resolution: varies based on encoder used. e. g. 40 nm
- Standalone operation with Joystick
- USB 2.0 interfaces for PC and Joystick
- Display with position feedback
- Access to menu via PC interface and rotary encoder

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Technical Data

part no.	unit	E-61000
power supply $\pm 10\%$	V	100-240
Input current	mA	300 (max.)
main supply	-	- 24 VDC/2.5 A (wide range power supply 100 to 240 V AC included)
electric fuse	mA	1000
channels	-	1,2 or 3
output voltage	V _{RMS}	0 ... 250
actuator connector	-	D-Sub 25 pol.
interface module		
USB	-	USB 2.0 HS
RS232	Baud	115200
CAN optional	-	e. g. CANopen (CAN FD ready)
casing		
dimensions (l * w * h)	mm	240 x 210 x 80
environment		
operating temperature	-	5 ... 35°C / 41 ... 95°F
humidity	% _{rel}	max. 80, non-condensing
altitude	m	up to 2000

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Drawing

