

PiezoWalk® NEXACT® Controller / Driver

NETWORKABLE CONTROLLER FOR NEXACT® LINEAR DRIVES AND POSITIONERS



E-861

- + High- speed encoder input
- + Macro programmable for stand- alone functionality
- + Data recorder
- + Non- volatile EEPROM for macros and parameters

Specifications

E-861.1A1	
Function	Controller for NEXACT® drives / systems
Drive type	NEXACT® linear drive
Channels	1
Motion and control	
Servo characteristics	P- I- D servo control, parameter change on- the- fly
Trajectory profile modes	Trapezoidal
Encoder input	Analog encoder input sine- cosine, interpolation selectable up to 1000; Interpolation circuit for differential transmission, 1 V _{pp} amplitude and 2.5 V offset of the encoder signal
Stall detection	Servo off, triggered by programmable position error
Input limit switch	2 × TTL (pull- up / pull- down, programmable)
Input reference switch	1 × TTL
Electrical properties	
Max. output power	40 W
Output voltage	-10 to +45 V
Max. operating current	2 A
Interfaces and operation	
Communication interfaces	USB 1.0, RS-232 (9- pin (m) sub- D)
Motor connector	HD Sub- D 15- pin (f)
Sensor connection	HD Sub- D 15- pin (m)
Controller network	Up to 16 units on single interface*
I/ O ports	4 analog / digital in, 4 digital out (TTL)
Command set	PI General Command Set (GCS)
User software	PIMikroMove, PITerminal
Software drivers	GCS DLL, LabVIEW driver

Supported functionality	Start- up macro; data recorder for recording parameters as motor input voltage, velocity, position or position error; internal safety circuitry: watchdog timer
Manual control (optional)	Pushbutton box, joystick (for 2 axes), Y- cable for 2- D motion
Miscellaneous	
Operating voltage	24 V; included: external power supply, 24 V; 2.0 A
Operating temperature range	0 to 50 °C
Mass	1.1 kg
Dimensions	206 mm × 130 mm × 66 mm (incl. mounting rails)

* 16 units with USB; 6 units with RS-232.

Order Information

E-861.1A1

NEXACT® Controller, 1 Channel, Linear Encoder

Related Products

[N-310 NEXACT® OEM Miniature Linear Motor / Actuator](#)

[E-755 Digital NEXLINE® Controller](#)

Technology

[PiezoWalk® Piezo Stepping Drives | NEXLINE® stepping drives are designed for high push and holding forces of up to 800 N and work with low velocities. Learn more ...](#)

