

USB Motor Controller

Part#: 03-203-003

Typical Mechanical and Electrical Specifications

Parameter	Motor 1	Motor 2
Rated voltage:	3V-12V	3V-12V
Leadscrew pitch (depends on type of spindle):	0.5mm	0.5mm
Motor speed (rpm) no load	12000	12000
Gearhead ratio (configurable by software, others on request)	485:1, 256:1	485:1, 256:1
Encoder counts per revolution	60	60

Operating Modes and Signal Specifications

Operating Modes	<i>Mode 1 jog</i> <i>Mode 2 PID controlled</i>
Limit Inputs	> 500kHz, 0-5V Input high voltage >2.4V
Jog Inputs	>500kHz, 0-5V Input high voltage >2.4V

Dimensions and weight

Case Style	Tube Housing
Dimensions	84 x 69.1mm x 28mm (l x w x h)
Weight	Approx. 0.2kg
Protection Class	IP2x according to IEC (EN) 60529

Electrical supply and interface specifications

Supply Voltage	5.00 VDC +/- 0.50 VDC
Supply Current	typical 0.4A, max. 1.0A
Control Interface	USB 1.0-3.0 (USB 2.0 recommended)