Modular Motion Driver | MMD-103

The MMD-103 is a piezo motor driver with a pulse-direction input designed to be used as a standalone 3 axis unit. The MMD-103 is capable of driving 3 piezo motors up to 3mm/s in open loop with a resolution of down to 1nm. The MMD-103 can be driven using differential step and direction inputs. MICRONIX Motion Control Language allows for easy setup through simple ASCII commands.

Not recommended for new designs

KEY FEATURES

- Integrated controller for piezo motor stages
- Open loop resolution down to 1 nm
- Closed loop resolution down to 1 nm (dependent on encoder)
- A quad B differential or sin/cos analog encoder feedback
- USB 2.0 or RS-485 interface
- Differential step/direction inputs

TECHNICAL DATA

Axes	3
Motor type	2-Phase Piezo Motor
Interface	USB 2.0 or RS-485 (configuration), 15-pin D-sub (driver signals)
Commands	ASCII commands
Power supply	Regulated 48V DC
Speed, max	3 mm/s (stage dependent)
Resolution	1 nm (open loop), 1 nm (closed loop)
Servo clock frequency	10 kHz
Enclosure dimensions	L198 x W171 x H29 mm

ORDERING INFORMATION   MMD-103- | 0 | 1 | 0 | | 0 |

AXES	3 Axis 1	
POWER SUPPLY	60 W.. 0	
ENCODER INTERFACE	Analog (1 V$_{pp}$) 0	
	Digital (RS-422) 1	

170.56

198.12

28.60

212.09

224.79
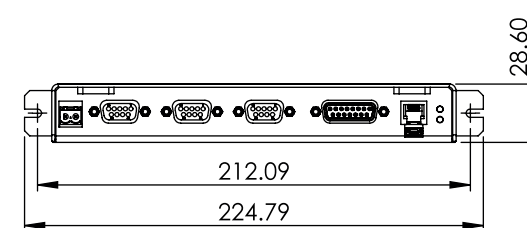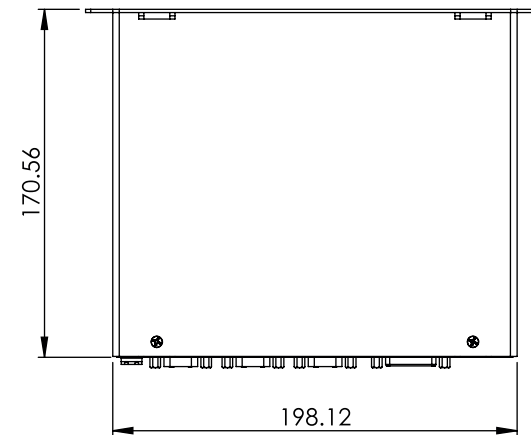
Specifications are subject to change without notice.

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PRECISION MOTION SOLUTIONS