



Stepper Motor Controller SMCx242

Features

- Intuitive manual user interface
- Well readable OLED display
- Fully-featured remote interface
- Automatic motor detection
- Automatic position calibration
- Up to 2.5 A of output current
- 24 V operating voltage
- Up to 1/32 microstepping
- Up to three limit/home switches per channel

Applications

Polarization adjustment
Grating positioning
Neutral density filter positioning

Description

The LK-Instruments SMC2242/SMC4242 is a universal Stepper Motor Controller for two/four bipolar stepper motors. It offers a comfortable manual user interface as well as fully-featured remote interface via a virtual COM port. This allows for simultaneous remote and manual control over stepper motor driven systems.

Specifications

$T_A = 25^\circ\text{C}$ and 50% RH unless otherwise noted.

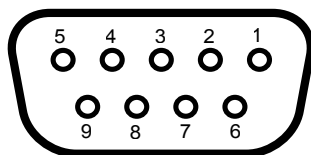
Parameter	Conditions	SMC2242			SMC4242			Unit
		Min	Typ	Max	Min	Typ	Max	
Current		0		2.5	0		2.5	A/Phase
Gear ratio								
Temperature range		0		40	0		40	$^\circ\text{C}$
Dimensions			???			???		mm
Weight			???			???		kg
Operating voltage			24	36		24	36	VDC
Power consumption			???	???		???	???	W

Outer Dimensions

All dimensions in millimeters.

Pin Configuration

D-SUB-9 female connector



Front view

Pin	Function
1	Phase B1
2	Phase B2
3	Phase A2
4	Phase A1
5	Ground
6	+5V
7	Sens 1
8	Sens 2
9	Sens 3
Shield	NC

Ordering Information

Model	Description
M101A	66 Ncm holding torque, with rotary knob
M101ANK	66 Ncm holding torque, without rotary knob
M101B	132 Ncm holding torque, with rotary knob
M101BNK	132 Ncm holding torque, without rotary knob