

SMC- series



SMC pollux

- + Single- axis Microstep- Controller System
- + Stand- alone- system or with integrated 2- Phase stepper motor
- + High Resolution- Microstep
- + Up to 16 S C pollux can be combined with only one RS232 interface
- + DSP Controller Type
- + Velocity- range $< 0.1 \mu\text{m/s} \dots 40 \text{ rev/s}$ (200 step motor)
- + Serial interface RS-232 115 kBaud
- + Venus-2 compatible string- based command language
- + Windows™ User- Interface
- + 24 VDC power supply (external)
- + Synchron motion start commands
- + Speed Mode
- + Closed - loop 1 Vpp interface, optional for NT series
- + Mixed configurations (open loop / closed loop) possible with NT series
- + LabVIEW™ VI's
- + Windows DLL and Open- Source project available
- + 3 types with different torques / velocities available

Our SMC family is based on modern 32bit technology which enables performances of stepper motor driven systems which haven't been possible before. A so called sin 2 acceleration offers very smooth acceleration and deceleration of the motors so that positioning in the nanometer range is possible with highest performance. One of the big advantages of our SMC- controllers is the possibility to drive the stages with extreme high resolution.

Specifications

SMC pollux	
Axes	1 axis, 2 phase stepper- motors
Computer Interface	RS-232 19200 Baud
Supply Voltage	24 VDC
Phase Currents	$\leq 1.2 \text{ A/ phase}$
Limit Switches	2 per axis software configurable
Trajectory mode	linear interpolation
Velocity range	for 200 step motor
	$< 0.1 \mu\text{m/s} \dots 13 \text{ rev/s TYPE I}$
	$< 0.1 \mu\text{m/s} \dots 25 \text{ rev/s TYPE II}$
	$< 0.1 \mu\text{m/s} \dots 40 \text{ rev/s TYPE III}$

Max. Resolution	300 000 positions/ rev.
Max. linear resolut.	1 nm
Program & Param.	Flash Memory
Amplifier	48 V bipolar 2 Phase with short- circuit & temperture protection
Motor torque	16 Ncm TYPE I
Version	26 Ncm TYPE II
SMC pollux	32 Ncm TYPE III
motor & controller	100 Ncm TYPE II HT
Housing	SMC pollux Box (Desktop) HxWxD 48x56x97 mm SMC pollux motor & controller HxWxD 48x56x117mm 19" Cassis SMC pollux integr. Box: 3HE 84TE Chassis with 90..230 VAC
Weight	0.216 kg (single axis)
Software Interface	Windows Demoprogram WINPOS- light , DLL's, demo applications (C/ Delphi/ VB) LabVIEW™ VI's and Demoapplication

Order Information

71609511

SMC- Series SMC pollux, Pollux Box Controller Type I

71609512

SMC- Serie SMC pollux, Pollux Box Controller Typ II

71609514

SMC- Series SMC pollux, Pollux Box Controller Type I CL (Closed Loop)

71609515

SMC- Series SMC pollux, Pollux Box Controller Type II CL (Closed Loop)

71609518

SMC- Series SMC pollux, Pollux Box Controller Type I OEM (Open Frame)

71609519

SMC- Series SMC pollux, Pollux Box Controller NT- Type I OEM

71609501

SMC- Series SMC pollux, Pollux Motor & Controller Type I (160 mNm)

71609502

SMC- Series SMC pollux, Pollux Motor & Controller Type II (160 mNm)

71609503

SMC- Series SMC pollux, Pollux Motor & Controller Type III (360 mNm)

71609504

SMC- Series SMC pollux, Pollux Motor & Controller Type II HT (High Torque 900 mNm)

71609557

SMC- Series SMC pollux, Pollux Multiaxis Desktop Pollux 6 Axes

71609558

SMC- Series SMC pollux, Pollux Multiaxis Desktop Pollux 3 Axes Desktop TCP/ IP

71609559

SMC- Series SMC pollux, Pollux Multiaxis Desktop Pollux 4 Axes Desktop TCP/ IP

Possible Accessories

71609524

Daisy- Chain Power RJ45- RJ45, 0.5 Meter Lenth to Combine 2 SMC pollux Controller

71609523

Daisy- Chain Power RJ45- RJ45, 1.0 Meter Lenth to Combine 2 SMC pollux Controller

71609521

Daisy- Chain Power RJ45- RJ45, 2.0 Meter Lenth to Combine 2 SMC pollux Controller

71609528

Daisy- Chain RJ45- RJ45, 0.5 Meter Lenth to Combine 2 SMC pollux Controller

71609527

Daisy- Chain RJ45- RJ45, 1.0 Meter Lenth to Combine 2 SMC pollux Controller

71609526

Daisy- Chain RJ45- RJ45, 2.0 Meter Lenth to Combine 2 SMC pollux Controller

71609520

RS-232 RJ45- DSub9, 2.0 Meter Lenth for PC- Connection

71609522

Power- Supply 60 W, 90-260VDC

71609530

DIN Rail Mounting KIT

71609550

04 Axes Chassis 19" 3HE 84TE

71609551

08 Axes Chassis 19" 3HE 84TE

71609552

12 Axes Chassis 19" 3HE 84TE

71609553

16 Axes Chassis 19" 3HE 84TE

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04 CL Axes Chassis 19" 3HE 84TE

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06 CL Axes Chassis 19" 3HE 84TE

71609556

08 CL Axes Chassis 19" 3HE 84TE

