

### E6.3.2

#### SERVO CONTROL

##### E6.3.2.1

DC Servo

##### E6.3.2.2

AC Servo

##### E6.3.2.3

Stepper Motor



DC Servo (E6.3.2.1)

Cat. No.	Description	E6.3.2.1	E6.3.2.2	E6.3.2.3
734 10	Servo setpoint generator	1	1	
734 44	DC servo with tachogenerator	1		
734 36	Mass Disc with Hook	1		
524 016S2	Profi-CASSY Starter 2	1		1*
726 09	Panel frame T130, two-level	1	1	1
726 86	DC-Power Supply $\pm$ 15 V/3 A	1	1	1
500 59	Safety bridging plugs, black, set of 10	1	1	1
500 641	Safety connecting lead, 100 cm, red	1		1
500 642	Safety connecting lead, 100 cm, blue	1		
500 644	Safety connecting lead, 100 cm, black	2		1
775 325EN	LIT: E2.6.1.2 DC Servo	1*		
734 482	WinFACT COM3LAB / CASSY Edition	1*	1*	
726 10	Panel frame T150, two-level	1*	1*	
734 02	Reference variable generator		1	
734 45	AC servo		1	
524 013S	Sensor-CASSY 2 Starter		1	
500 851	Safety connecting leads, 32 A, set of 32		1	
775 330EN	LIT: E2.6.1.3 AC Servo		1*	
728 55	Stepper motor			1
726 962	Function generator 200 kHz			1
531 57	Multimeter METRAport 3A			1
	additionally required: 1 PC with Windows 7/8/10			

\* additionally recommended

#### DC Servo

The equipment set incorporates student experiments which can be carried out in a laboratory safely using safety extra-low voltage. Experiment instructions are contained in a manual in either printed or digital form.

#### AC Servo

The equipment set incorporates student experiments which can be carried out in a laboratory safely using safety extra-low voltage. Experiment instructions are contained in a manual in either printed or digital form.

#### Stepper Motor

Stepper motors are a special variety of synchronous motor with a large number of pole pairs. The rotor follows the stator field in steps, the size of which is determined by the number of poles. With normal loading, the angular position of the rotor can be determined precisely. If overloaded, however, step losses arise and information about the current position of the rotor is lost. Stepper motors can be wired to operate in both half-step and full-step modes. Due to their discontinuous operation, stepper motors are the ideal drive systems for digital servo systems.

Experiments are operated and evaluated with CASSY Lab 2 and WinFACT.