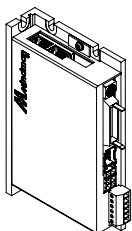
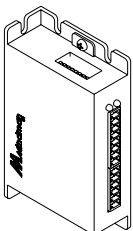
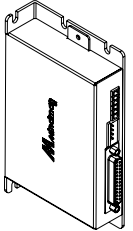


CK10 / CM10 / CM20 series

ELECTRIC ACTUATOR CONTROLLER



Controller model	CK10 (Torque type)	CM10 (Pulse type)	CM20 (Position type)
Appearance			
Stepper motor type	SM	OBM	BM
Position table	Yes	–	Yes
Pulse	Single / Double / AB quadrature	Single / Double	Single / Double
I/O Input	12	–	5
I/O Output	10	–	4
Homing sensor	–	Necessary	Necessary
Communication	Plus-R, DLL function (PC base), Modbus over RS485	–	Modbus over RS485
Motion mode	Position control, Velocity control, Torque control	Position control	Position control, Velocity control
Input power	CTL (Controller): DC 24V DRV (Motor): DC 24 / 48V	DC 24V	DC 24 / 48V
Dimension W×H×D	134×83.3×26.5 mm	97×60×24 mm	146×86.6×28.4 mm

Accessories of controller side

Order example	Description
CK10	-ME015 Motor + Encoder cable - 1.5 m
	-ME03 Motor + Encoder cable - 3 m
	-ME05 Motor + Encoder cable - 5 m
	-S015 I/O signal cable - 1.5 m (32 Pin)
	-S03 I/O signal cable - 3 m (32 Pin)
	-C035 *1 Communication cable - 3.5 m
CM10	-△△-M01 *2,3,4 Motor cable - 1 m
	-△△-M03 *2,3,4 Motor cable - 3 m
	-△△-M05 *2,3,4 Motor cable - 5 m
CM20	-□□-ME01 *2,3,4 Motor + Encoder cable - 1 m
	-□□-ME03 *2,3,4 Motor + Encoder cable - 3 m
	-□□-ME05 *2,3,4 Motor + Encoder cable - 5 m
	-S015 I/O signal cable - 1.5 m (20 Pin)
	-S03 I/O signal cable - 3 m (20 Pin)

- *1. The communication cables of CK10 and CM20 are the same.
 *2. Power pin is included in cable. No need to buy power adapter.
 *3. △△ is represented the size of the motor – 20,25,35.
 □□ is represented the size of the motor – 20,25,35,42,56.
 *4. The 25/28 motor and encoder cable are shared.

Cable material

Cable type	Material
I/O Signal	Isolation
Motor	Flexible
Encoder	Isolation + Flexible

Power consumption

Unit: W

Controller + motor type	Motor size					
	□20	□25	□28	□35	□42	□56
CK10 + SM	26	–	28	36	52	79
CM20 + BM	26	36	36	48	60	84
CM10 + OBM	31	41	41	50	–	–

* The actual power consumption will depend on detailed current setting and moving loads.

Accessories of motor side

Order example	Description
-20-E0035 *1,2	Encoder cable - 35 cm
SM -○△-M0035 *2,3	Motor cable - 35 cm
-○△-ME0035 *2,3	Motor + Encoder cable - 35 cm

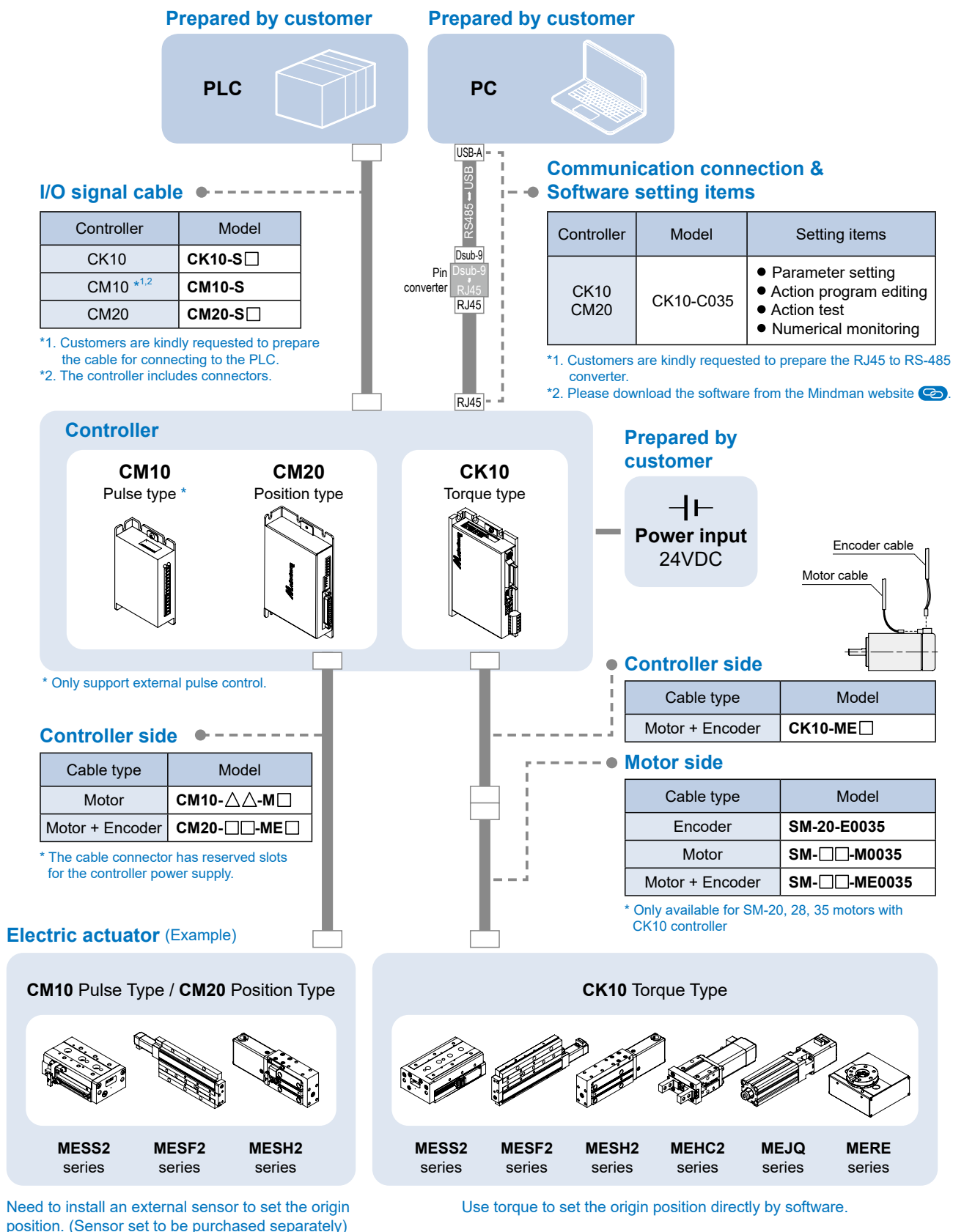
- *1. The 20,28,35 motor side encoder cable are shared.
 *2. Only available for SM-20,28,35 motor with CK10 controller.
 *3. ○△ is represented the size of the motor – 20,28,35.

CK10 / CM10 / CM20 System structure

ELECTRIC ACTUATOR CONTROLLER



Mindman

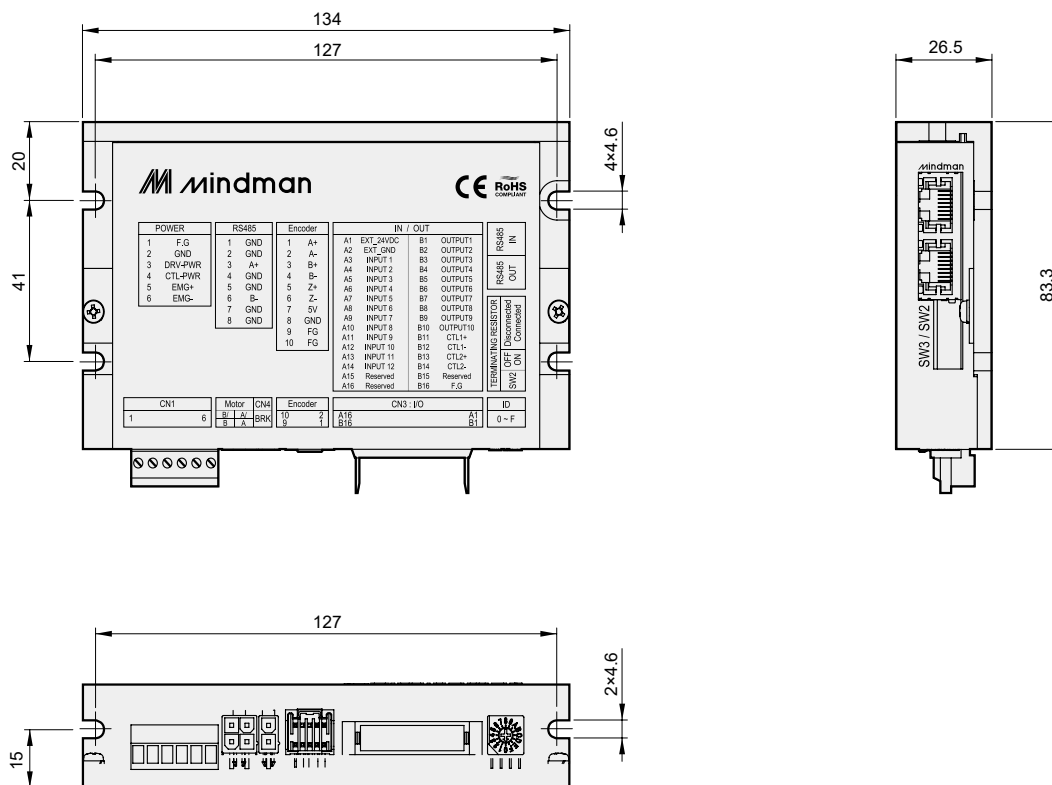


CK10 Dimensions

ELECTRIC ACTUATOR CONTROLLER



CK10

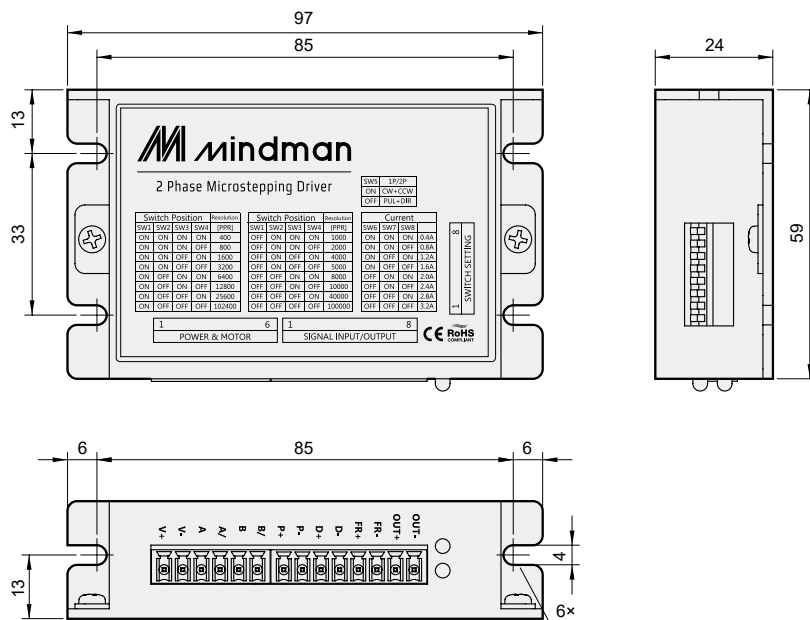


CM10 / CM20 Dimensions

ELECTRIC ACTUATOR CONTROLLER



CM10



CM20

