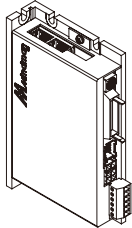
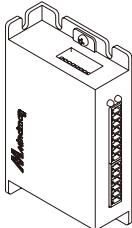
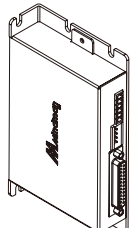


Controller model	Type	Specification	Exterior	Features
CK10 Torque type	<ul style="list-style-type: none"> ● RS-485 serial communication ● I/O ● Pulse input 	24VDC±10% max. 500mA (Except motor current)		<ul style="list-style-type: none"> ● Support RS-485 communication (Modbus RTU) ● Support single / double pulse control ● Support Position Table motion control function ● Offer Dynamic-link library for PC Base(.dll for C++, C#) ● Support torque control with interrupt / continue function ● Support torque method return to origin
CM10 Pulse type	<ul style="list-style-type: none"> ● Pulse input 	24VDC±10%		<ul style="list-style-type: none"> ● Support single / double pulse control ● Open loop ● Sensors would be needed for origin return
CM20 Position type	<ul style="list-style-type: none"> ● RS-485 serial communication ● I/O ● Pulse input 	24VDC±10% max. 500mA (Except motor current)		<ul style="list-style-type: none"> ● Support RS-485 communication (Modbus RTU) ● Support single / double pulse control ● Programmable motion control function ● Sensors would be needed for origin return

Accessories

Order example	Description
CK10 -ME015	Power + Encoder cable of motor - 1.5 m
-ME03	Power + Encoder cable of motor - 3 m
-ME05	Power + Encoder cable of motor - 5 m
-S015	I/O signal cable - 1.5 m (32 Pin)
-S03	I/O signal cable - 3 m (32 Pin)
-C035 *1	Transmission cable - 3.5 m

CM10 -△△-M01 *2,3,4	Power cable - 1 m
-△△-M03 *2,3,4	Power cable - 3 m
-△△-M05 *2,3,4	Power cable - 5 m

CM20 -□□-ME01 *2,3,4	Power + Encoder cable of motor - 1 m
-□□-ME03 *2,3,4	Power + Encoder cable of motor - 3 m
-□□-ME05 *2,3,4	Power + Encoder cable of motor - 5 m
-S015	I/O signal cable - 1.5 m (20 Pin)
-S03	I/O signal cable - 3 m (20 Pin)

*1. The transmission 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.

□□ is represented the size of the motor – 20,25,35,42,56.

*4. The 25/28 motor power and encoder cable are shared.

Wire material

Wire	Material	
I/O Signal cable	Isolation	
Cable	Motor power cable	Flexible
	Encoder cable	Isolation + Flexible

Power consumption

Motor size		□20	□25	□28	□35	□42	□56
Power consumption (W)	CK10 + SM motor	26	–	28	36	52	79
	CM20 + BM motor	26	36	36	48	60	84
	CM10 + OBM motor	31	41	41	–	–	–

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

CK10 / CM10 / CM20 System structure



ELECTRIC CYLINDER CONTROLLER

Mindman

Prepared by customer

PLC



Prepared by customer

PC



I/O single cable

Controller	Model
CK10	CK10-S□
CM10 *1,2	CM10-S
CM20	CM20-S□

*1. Customers are kindly requested to prepare the cable for connecting to the PLC.

*2. The controller includes terminal.

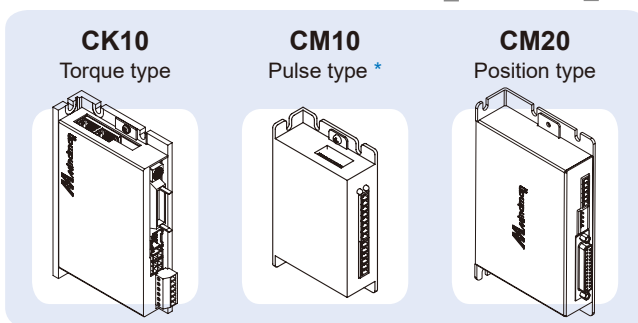
Communication connection & Software setting items

Controller	Model	Setting items
CK10 CM20	CK10-C035	<ul style="list-style-type: none"> ● Parameter setting ● Action program editing ● Action test ● Numerical monitoring

*1. Customers are kindly requested to prepare the RJ45 to RS-485 converter.

*2. Please download the software from the Mindman website.

Controller



* Only support external pulse control.

Prepared by customer

Power input
24VDC

Power terminal

Controller	Model
CK10	CK10-P
CM10*	CM10-M

* The controller and motor power supplies are on the same terminal block.

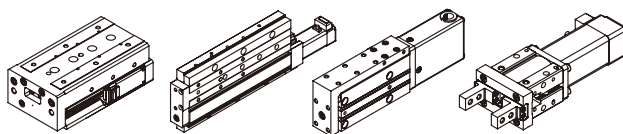
Motor cable

Controller	Model
CK10	CK10-M□
CM10	CM10-△△-M□
CM20	CM20-□□-M□

* The cable terminal has reserved slots for the controller power supply.

Electric actuator

CK10 Torque Type



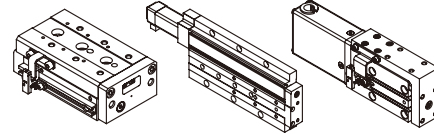
MESS2 series

MESF2 series

MESH2 series

MEHC2 series

CM10 Pulse Type / CM20 Position Type



MESS2 series

MESF2 series

MESH2 series

Use torque to set the origin position directly by software.

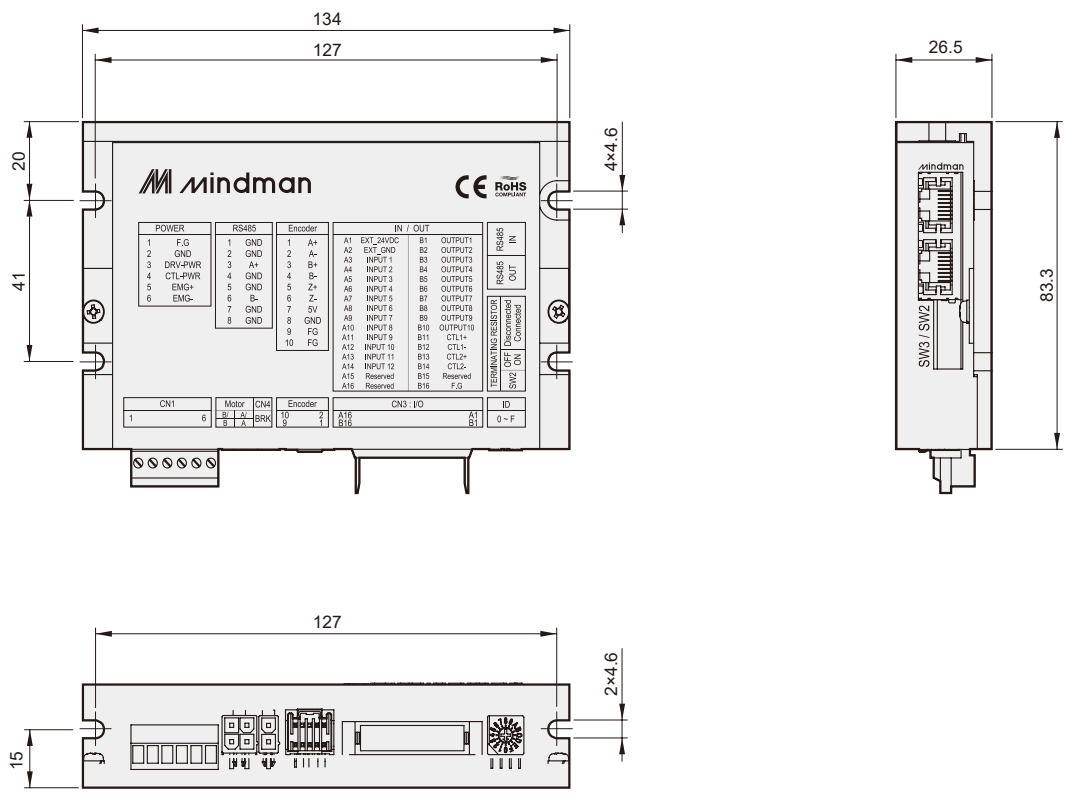
Need to install an external sensor to set the origin position.
(Sensor set to be purchased separately)

CK10 / CM20 Dimensions

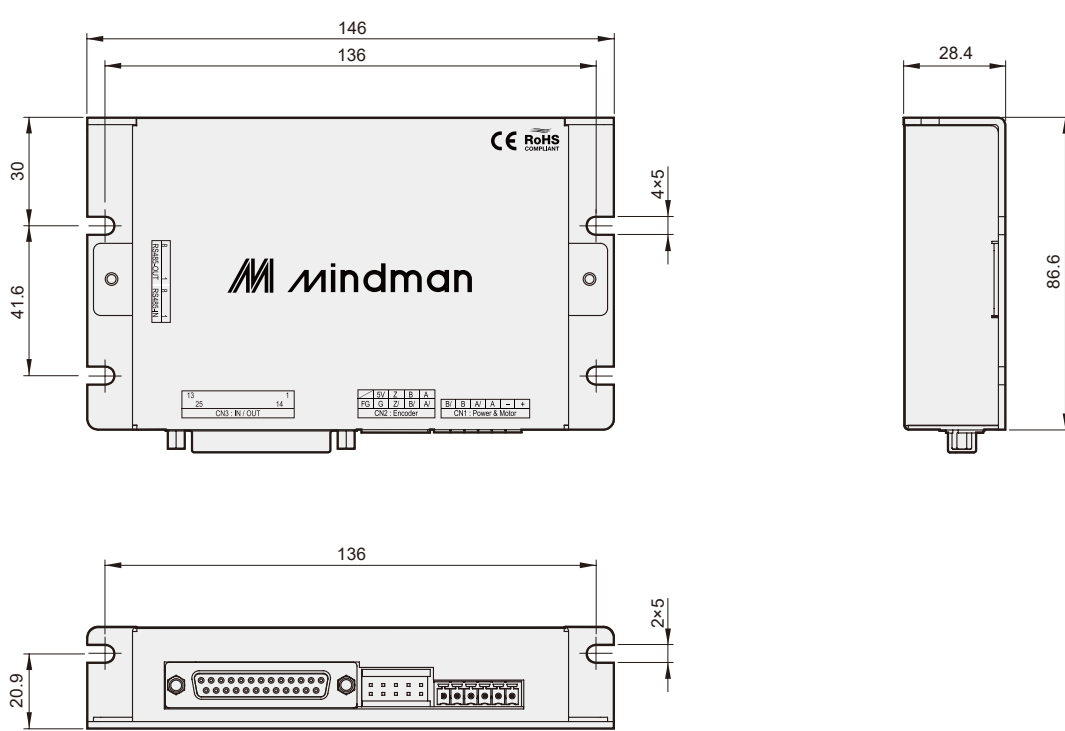
ELECTRIC CYLINDER CONTROLLER



CK10



CM20



CM10 Dimensions

ELECTRIC CYLINDER CONTROLLER



CM10

