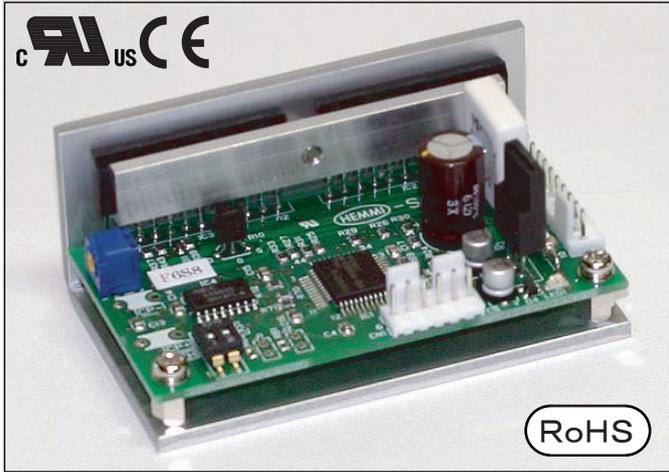


# 5 PHASE STEPPING MOTOR DRIVER

## MC-5M



UL standard recognition , CE marking

### FEATURES

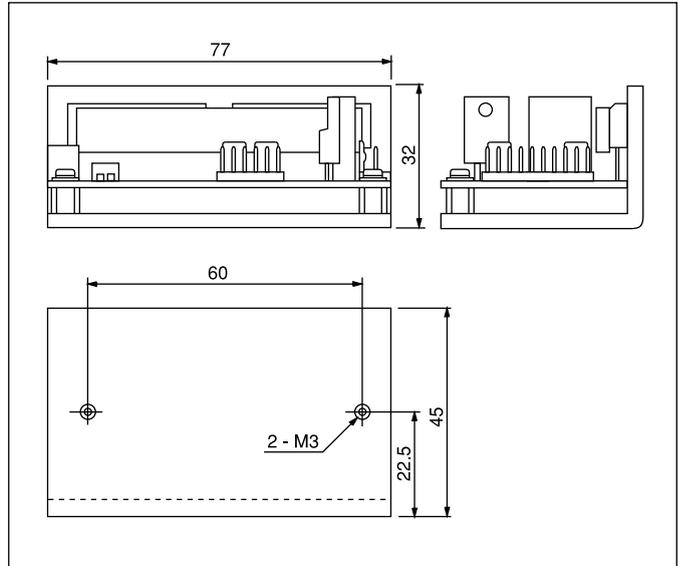
- Maximum drive current 1.4A/phase.
- Single power supply DC24~36V.
- Optical-isolator input.
- Automatic current reduction. ▫
- Compact size driver. ▫

※ Optional Parts ; Wire assembled connector.

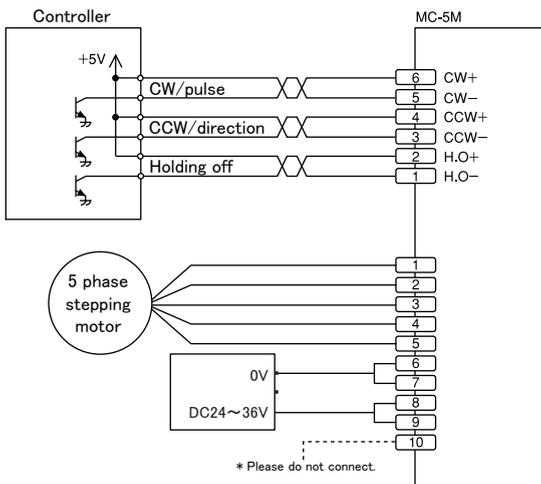
### SPECIFICATION

Name	5 phase stepping motor driver
Model *	MC-5M
Drive method	Bipolar Pentagon
Input power	DC20~40V 3A Max.
Drive current	0.5A~1.4A/phase
Maximum frequency	70kpps
Input signal	Optical-isolator input [1] ; 4~8V , [0] ; -8~0.5V Input resistance CW, CCW, and H.O ; 390Ω
Function	Pulse input mode selector , Full/half step select , Automatic current reduction at motor standstill *
Operating temperature range	0~40°C *
Operating humidity range	0~85%
Weight	90g

### DIMENSIONS (unit ; mm)



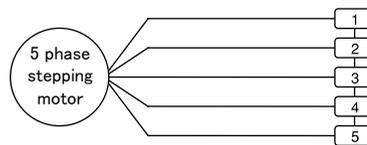
### SAMPLE WIRING DIAGRAM



### MOTOR

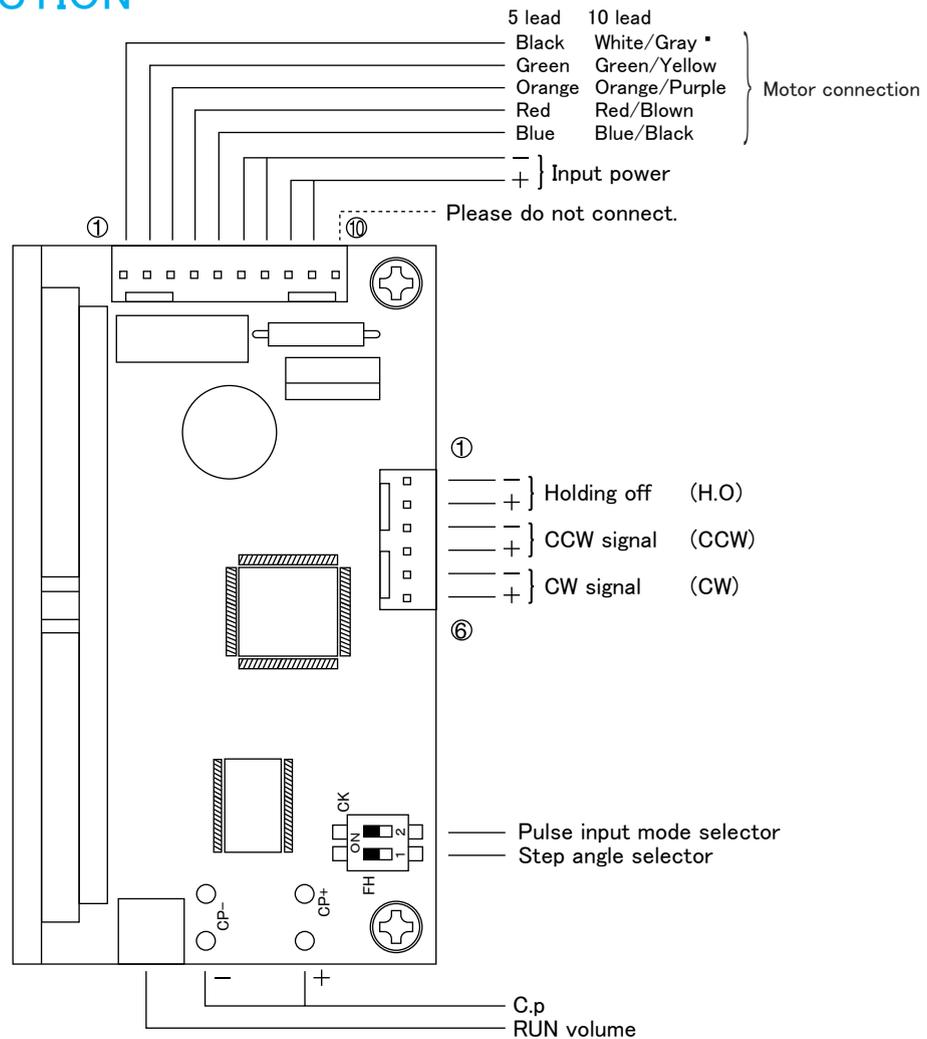
- 5/10 lead 5-Phase stepping motors such as Tamagawa-seiki or Oriental-motor.

Motor connection



Connector No.	5 lead	10 lead
1	Black	White/Gray
2	Green	Green/Yellow
3	Orange	Orange/Purple
4	Red	Red/Brown
5	Blue	Blue/Black

## NAME AND FUNCTION



## SETTING THE DRIVER OUTPUT CURRENT

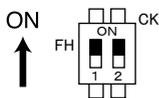
To obtain the desired drive current, connect a potentiometer to CP(+,-) and use the following formula:

$$\text{Potentiometer voltage (V)} = \text{Desired drive current} \times 2$$

Factory setting is 1.4A/phase.

- ① Turn RUN Volume Control all the way to the left before the system is powered.
- ② Turn On the power.
- ③ Input CW(or CCW) pulse signal with a frequency of 10Hz minimum.  
(Caution : Motor starts to rotate once the signal is input.)
- ④ To set the drive current, turn RUN Volume slowly to the right until voltage meets the value calculated above.
- ⑤ At the Motor Standstill, the output current will be automatically reduced to 65% of the set current.

## DIP SW FUNCTIONS



No.	Mode	ON	OFF
1	Step angle	0.72° / pulse	0.36° / pulse
2	Pulse mode *	One pulse	Two pulse

## INPUT CIRCUIT

