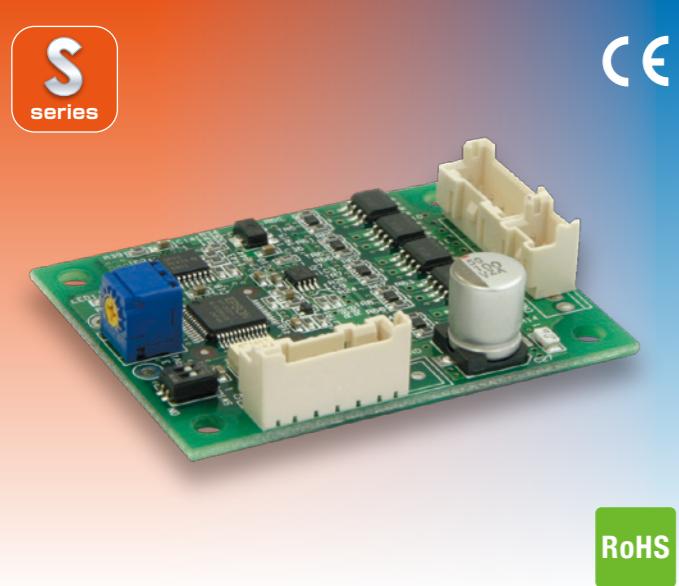


# 5 Phase Stepping Motor Driver

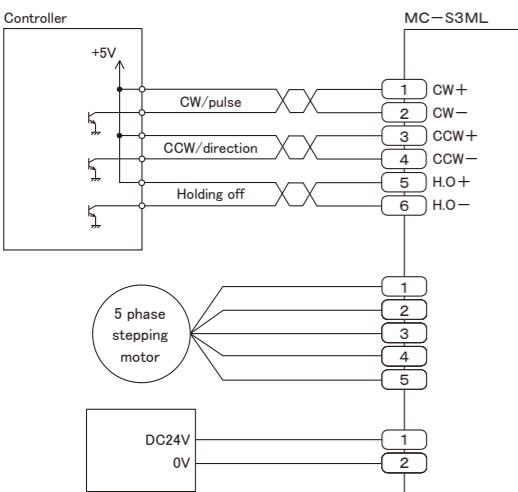
## MC-S3ML



### SPECIFICATION

Name	5 phase stepping motor driver
Model	MC-S3ML
Drive method	Full / Half Step
Input power	DC24V ±5% 0.8A Max.
Drive current	0.12A~0.35A/phase
Maximum frequency	70 kpps
Input signal	Optical-isolator input [1]:3~5V, [0]:-3~0.5V Input resistance CW, CCW, H.O:220Ω
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	13g

### SAMPLE WIRING DIAGRAM

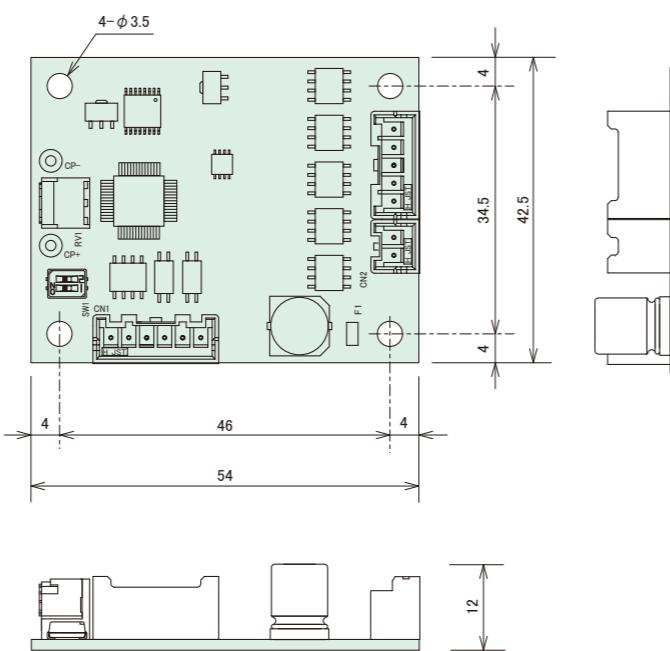


### FEATURE

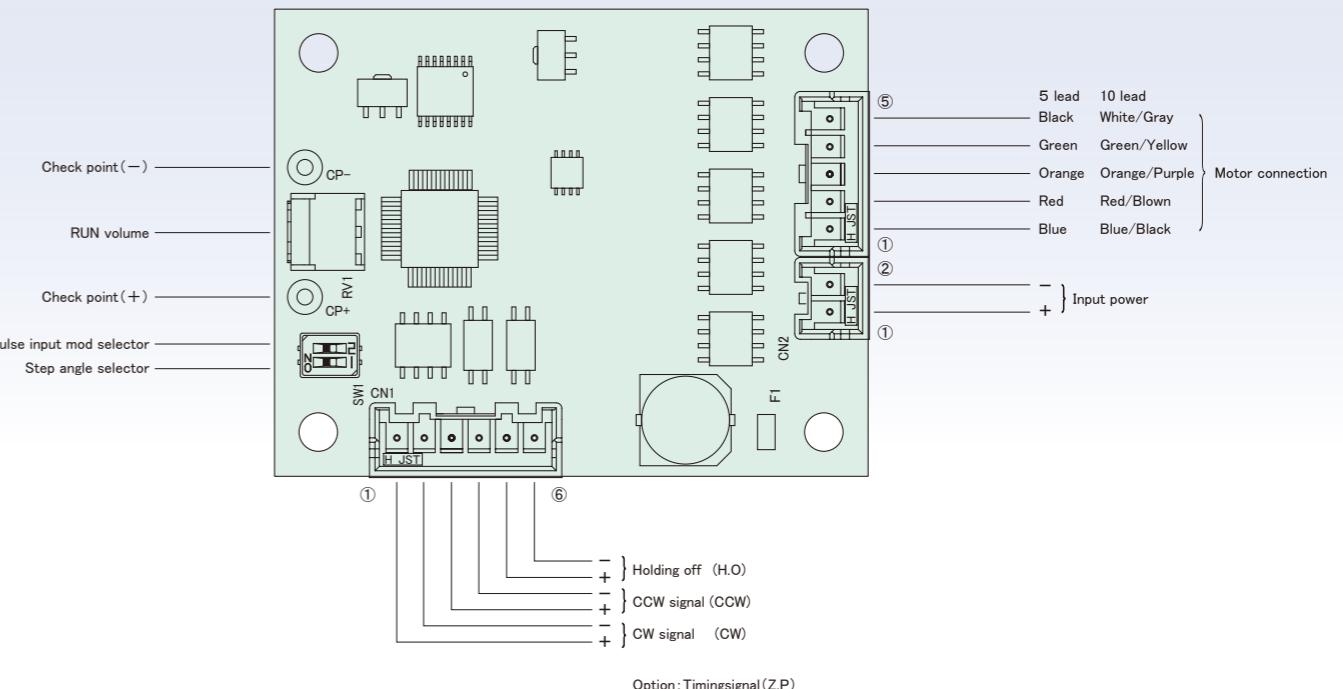
- Maximum drive current 0.35A/phase.
- Single power supply DC24V.
- Optical-isolator input.
- Automatic current reduction.
- Compact size driver.
- Low price.

\*Optional Parts ; Wire assembled connector ► Page 50

### DIMENSIONS (unit:mm)



### NAME AND FUNCTION



### SETTING DRIVE CURRENT

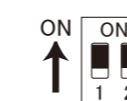
To obtain the desired drive current, connect a potentiometer to CP(+) and use the following formula:

Potentiometer voltage(V) = Desired drive current × 8

Factory setting is 0.35A/phase.

- ① Turn RUN Volume Control all the way to the left before the system is powered.
- ② Insert the cw signal (or the ccw signal )with a frequency of 10 pps or more, slowly turn the run volume and adjust it to the calculated voltage value. (Caution: Motor starts to rotate once the signal is input)
- ③ At the Motor Standstill, the output current will be automatically reduced to 60% of the set current.

### DIP SW FUNCTION

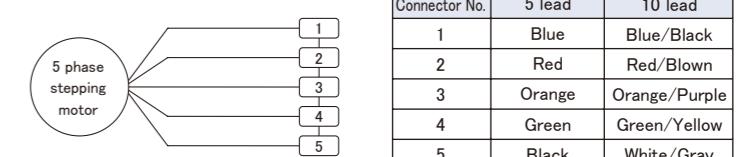


No.	Mode	ON	OFF
1	Step angle	0.72°/pulse	0.36°/pulse
2	Pulse mode	One pulse	Two pulse

### MOTOR

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

See table below for the pin no. of the connector and color of motor leads.



### INPUT CIRCUIT

