

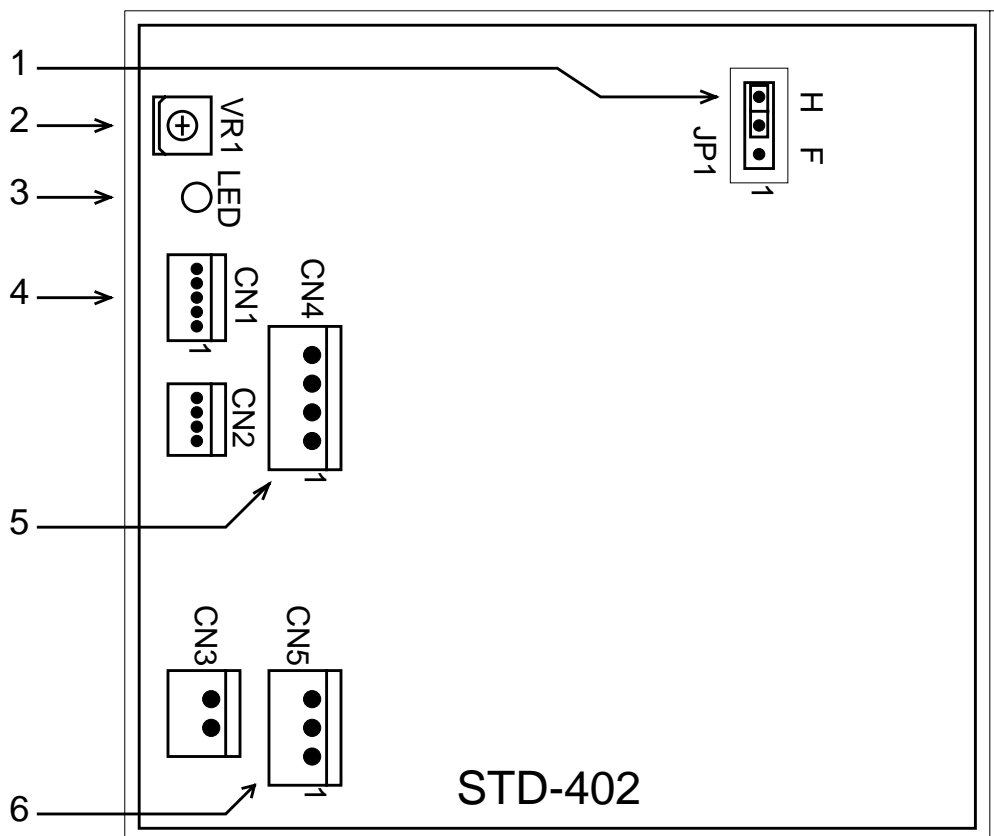
1. INTRODUCTION

The STD-402 stepper motor driver is bipolar, PWM chopper, constant current regulated unit, designed to operate with a wide range of step motors. Manufactured by TAILY AUTOMATION, Is suitable to drives 2 or 4 phase step motor, the driver is high torque, easy to interface and use, high performance and low cost.

2. SPECIFICATIONS

Model	STD-402
Suitable motor	2 or 4 phase stepper motor
Control mode	Bipolar, PWM constant current regulation
Drive current	2A (MAX)
Excitation mode	Full step 2 phase excitation Half step 1-2 phase excitation
Power input	AC30V 50/60HZ or DC40V 100VA
Selection	“Full step/Half step” selection
Standby current	Automatically reduce at standby mode
Current adjustment	Maximal output current adjust
Input signals	PUS : Pulse input
	DIR : Direction input
	CO : Current off input
Ambient temperature	0 ~40
Dimension	86(W)×75(D)×35(H) mm
Weight	120g

3. DESCRIPTION



NO.	NAME	DESCRIPTION	FACTORY SET
1	JP1	HALF/FULL Step mode select	H
2	VR1	Maximal output current adjust	1.5A
3	LED	Power indicate	
4	CN1	Pulse input connector	
5	CN4	Step motor connector	
6	CN5	Power input connector	

◆ Step mode selection

H : JP1 at H position = HALF step mode (0.9°/step,400step/rev).

F : JP1 at F position = FULL step mode (1.8°/step,200step/rev).

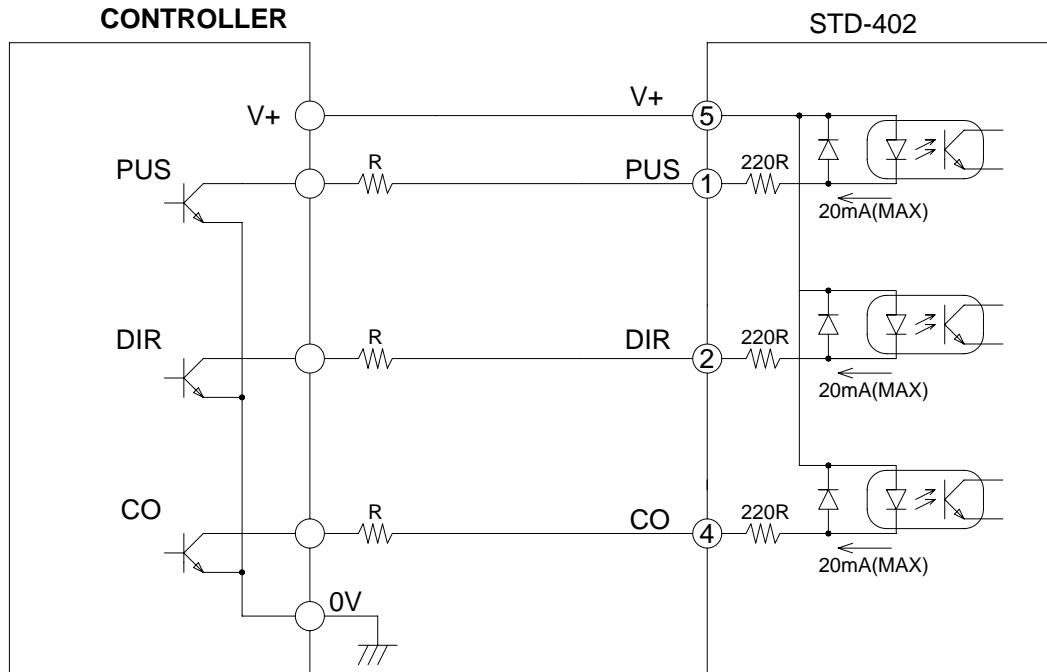
◆ Out current adjustment

Rotate VR1 to adjust maximal output current.

4. INPUT SIGNALS

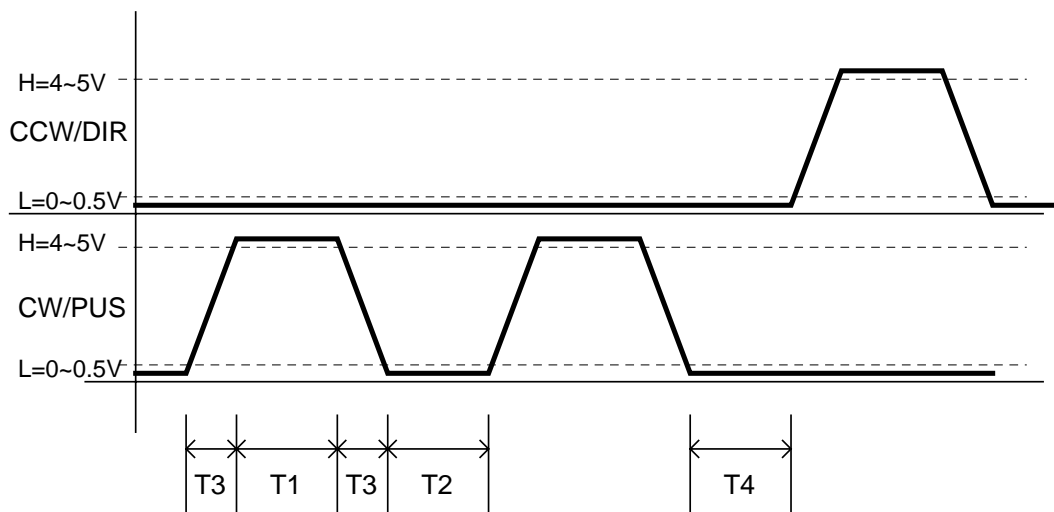
STD-402 with three input signals (**PUS**)、(**DIR**)、(**CO**).

- ◆ **PUS** : Pulse input.
- ◆ **DIR** : Direction input.
- ◆ **CO** : when this input is low lever, the driver will turn of output current to free the step motor from excitation condition.



◆ Signals wave :

T1,T2,T4 = 20us (min). T3= 2us (max).

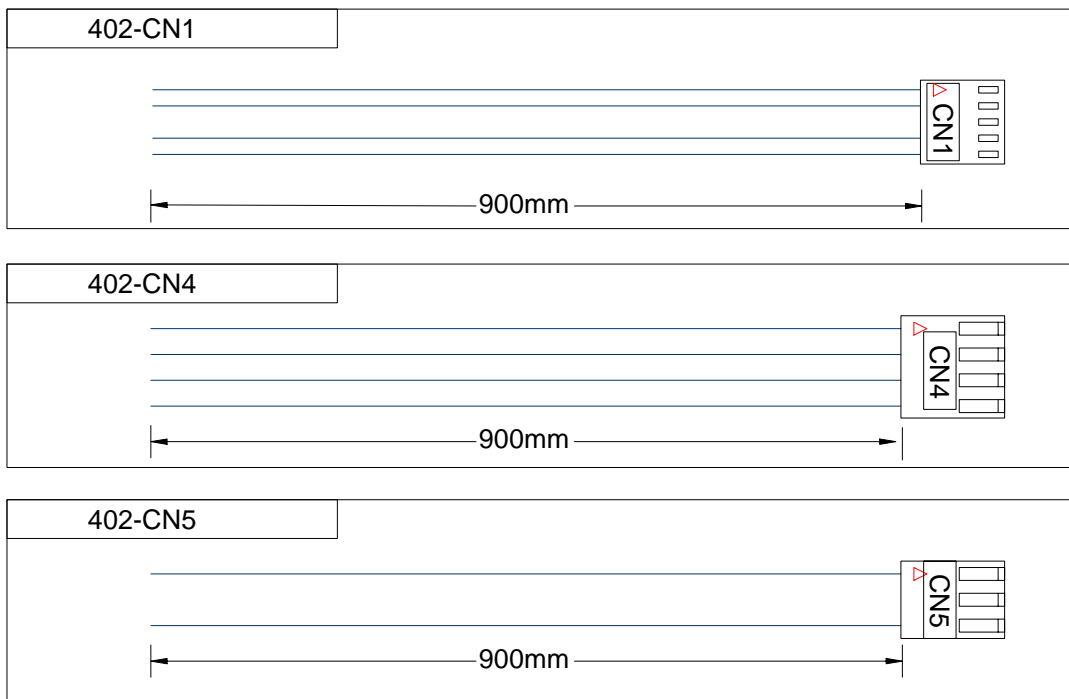


5. INSTALLATION AND WIRING

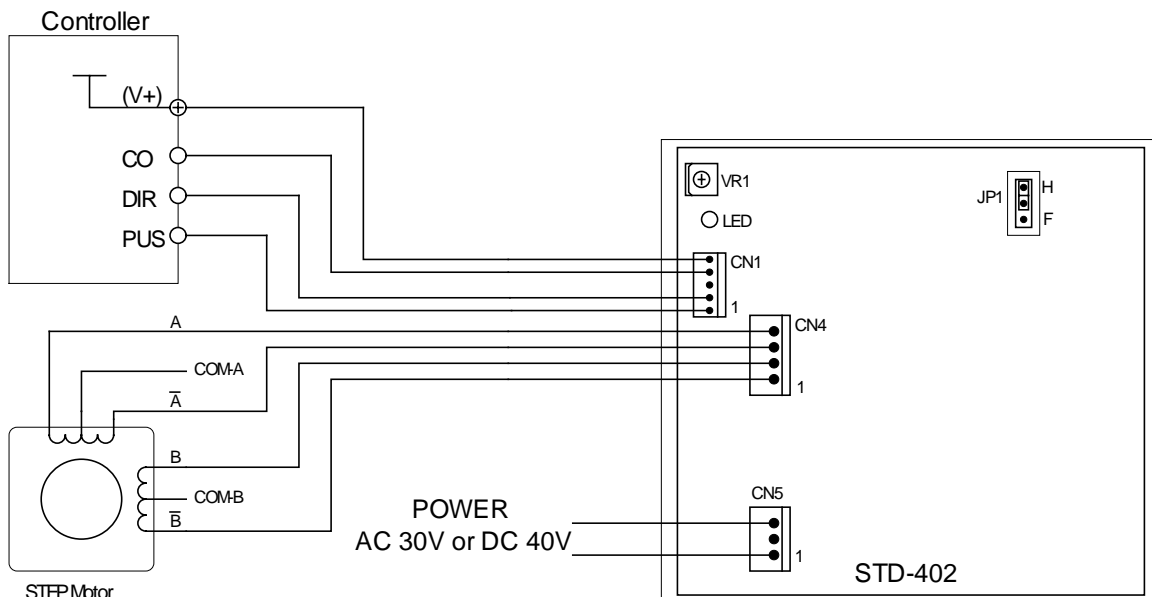
◆ Requirement and Safety precautions :

1. The driver should be operated in an environment that is protected from moisture, corrosive gases, oil mist, and airborne dust, metallic particles.
2. Make sure all connectors are connected to correct position before turn on power. Do not connect or disconnect connectors while power is applied to the driver.
3. Make sure that the power source supplies the correct voltage and is capable of supplying the required current to the driver.

◆ Connectors :



◆ Wiring diagram :



6. DIMENSION

