

# FTMST 24-01 SPECIFICATION

#### **GENERAL DESCRIPTION**

 FTMST24-01 is a motor control board for two phase Stepper Motors rated up to 24V / 1.2 Amps

#### **OVERVIEW**

- Controls Two Phase Stepper Motor
- Full Step to 1/32 Microstepping

## **GENERAL FEATURES**

- Pulse and Direction control input
- Status LED's indicate Power, Run and Fault conditions
- Optically isolated control inputs

## **OPERATIONAL SPECIFICATION**

PARAMETER NAME	MIN	NOM	MAX	UNIT
Power Supply	12	-	24	V
Pulse Frequency @ 1/32 microstep	-	6	-	kHz
Speed Range(Depends on motor)	0.5	200	-	rpm
Continuous Output Current (At 25°C)	-	-	1.2	A
<b>Operating Temperature Range</b>	0	-	70	$^{0}C$
<b>Storage Temperature Range</b>	-25	-	85	<sup>0</sup> C
Control Input Voltage	5	-	10	V

#### **DIRECTION**

• By using Direction input (DIR +, EXT GND) the direction of the motor can be changed.

## **STEP INPUT**

• According to the step input (STEP +, EXT GND), speed of the motor can be varied from MIN to MAX.

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# **ENABLE/DISABLE**

• By giving +5V to Disable Input (DIS, EXT GND) we can DISABLE the motor.

## LED's

• Fault LED - It is ON, Colour RED

• Run LED - It is ON with respect to the frequency, Colour GREEN

• Power LED - It is ON when drive is powered, Colour GREEN

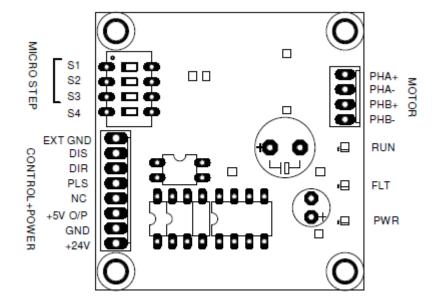
# MICROSTEPPING / DECAY SETTINGS

<b>S1</b>	S2	<b>S</b> 3	<b>S4</b>	STEP MODE
ON	ON	ON	X	Full Step
ON	ON	OFF	X	1/2 Step
ON	OFF	ON	X	1/4 Step
ON	OFF	OFF	X	1/8 Step
OFF	ON	ON	X	1/16 Step
OFF	ON	OFF	X	1/32 Step

X - Don't care

## FTMST24-01 CONNECTION DIAGRAM

Figure shows power, motor and peripheral connections.



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