

3626-23-24V01

Driver Board Wiring Introduction

Professional wiring reference for power, speed feedback, speed control, and rotation direction inputs.

Power and Feedback Connections

WIRE	FUNCTION AND SPECIFICATION
GND Black	Power supply negative terminal.
VCC Red	Power supply positive terminal: 5-24 VDC .
FG Yellow	Speed signal output: 0.5-2 mA; 9 pulses per revolution . VOH: 3.5-5.5 V VOL: 0.5 V max.

Speed Control Connection

VSP / PWM Blue	VSP analog-voltage speed control Control range: 0-5 V. Motor start voltage: 1.1 V. Maximum speed voltage: 4.5 V. If left unconnected, the motor defaults to maximum speed. PWM speed-control input Frequency: 1-21 kHz. Duty-cycle range: 21%-100%; 100% duty cycle corresponds to maximum speed. This board is currently configured for VSP speed control.
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Direction Control Connection

FR White	Forward / reverse direction control Direction switching while the motor is running is possible but not recommended. Change the high/low logic level only after the motor has stopped. When left unconnected, the shaft rotates counterclockwise when viewed from the shaft end. After the motor has stopped, applying a low-level signal changes rotation to clockwise when viewed from the shaft end. VH: 3.5-5.5 V VL: 0.5 V max.
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Note: Observe the stated voltage limits and stop the motor before changing the FR logic level.