

Encoder signal output pin

In addition to using the motor encoder feedback signal for servo control, the TSVB series driver also uses the motor encoder feedback signal.

The signal is output to the controller for the controller to detect the operation of the motor. The labels of each pin are as follows:

Pin name	Pin number	marking	Function
Encoder A phase signal output	21	OA+	Encoder A, B, Z signal differential output (AM26C31), Non-isolated output. When Yaskawa protocol is used to feedback the position, A/B feedback absolute position when powered on.
	22	OA-	
Encoder B phase signal output	48	OB+	
	49	OB-	
Encoder Z signal	23	OZ+	
Differential output	24	OZ-	
Encoder Z signal Open collector output	19	CZ	When the encoder zero signal Z appears, the transistor is turned on, otherwise then ends. The Z signal pulse width is very narrow, and the controller must use high-speed The receiving circuit or adjust the Z pulse width through parameter PA94.
Encoder signal ground	25	GND	The encoder signal is a non-isolated output and therefore provides an output signal reference ground.
shielding ground	50	PE is connected	to the shielding layer of the command cable to improve anti-interference capability.