

# SJ300 Accessories — Option Cards

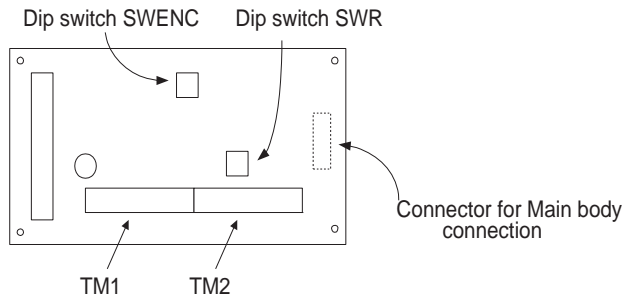
## Encoder feedback board

The SJ-FB encoder feedback board improves the SJ300's speed regulation and torque response. The SJ-FB connects to a two-channel incremental encoder and detects the rotational speed of the motor to prevent speed fluctuations.

The SJ-FB can also be used for master/slave control, electronic line shaft with ratio control, and shaft position control.

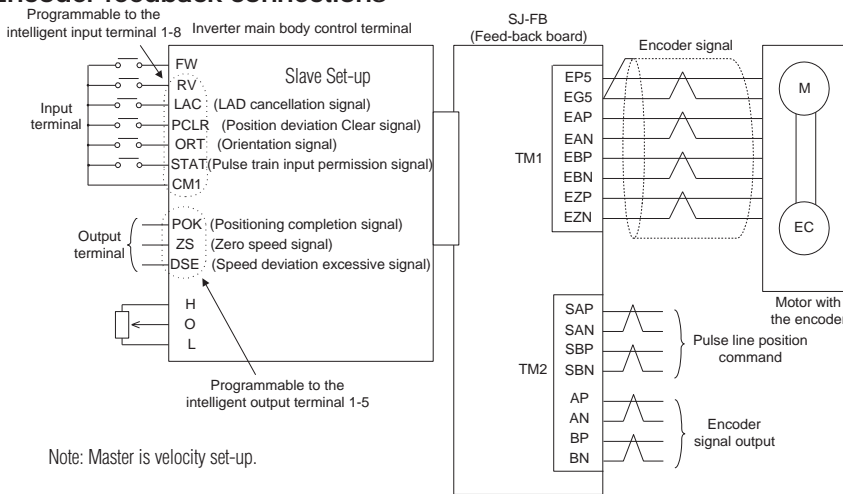
SJ-FB Feedback Board			
<b>Price</b>		<b>\$385.00</b>	
<b>Speed control</b>	<b>Encoder Feed-back</b>	Standard encoder pulse number 1024 pulses per revolution Max. input pulse 100k pulses per second	
	<b>Speed Control System</b>	Proportional-integral (PI) / Proportional (P) control	
<b>Electronic Gears Control</b>	<b>Pulse Selection for Electronic Gears</b>	Three kinds of pulse train input selectable by main body setting Mode 0: 90° phase difference pulse Mode 1: forward/reverse signal pulse Mode 2: forward pulse/reverse pulse Max. input pulse 100k pulses	
		<b>Electronic Gears</b>	Pulse ratio A/B (A, B: 1-9999 selectable) Ratio setting range: $1/50 (.02) \leq A/B \leq 20$
			Encoder cable line break protection Over speed protection (over speed error detection level (P026)) Positioning error

## Encoder feedback board terminal assignment



TM1 terminal assignment								TM2 terminal assignment							
EP5	EG5	EAP	EAN	EBP	EBN	EZP	EZN	SAP	SAN	SBP	SBN	AP	AN	BP	BN

## Encoder feedback connections



Note: Master is velocity set-up.

Terminal Specifications		
Symbol	Description	Electrical Specifications
<b>Input Terminals</b>		
<b>SAP SAN SBP SBN</b>	Pulse line position command input	DC5V receiver input (based on RS-422 standard)
<b>EAP EAN EBP EBN EZP EZN</b>	Encoder signal input	Photo coupler input (Correspondence to the DC5V line driver type rotary encoder)
<b>STAT</b>	Pulse train position command input permission signal (Note 1)	Photo coupler input (Refer to a main body intelligent input terminal.)
<b>LAC</b>	LAD cancel signal: (Note 1)	
<b>PCLR</b>	Position deviation clear signal: (Note 1)	
<b>Output Terminals</b>		
<b>AP AN BP BN</b>	Encoder signal output	DC5V line driver output (based on RS-422 standard)
<b>EP5 EG5</b>	Power supply for encoder	+5VDC, 150mA max
<b>POK</b>	Positioning completion signal (Note 2)	Open collector outputs (refer to a main body intelligent input terminal)
<b>DSE</b>	Speed deviation excessive signal (Note 2)	
<b>ZS</b>	Zero speed signal (Note 2)	

Note 1: Valid when LAC is assigned to an intelligent input terminal of the main body (SJ300).

Note 2: Valid when POK is assigned to an intelligent output terminal of the main body (SJ300).