

SJ300 Accessories — Option Cards

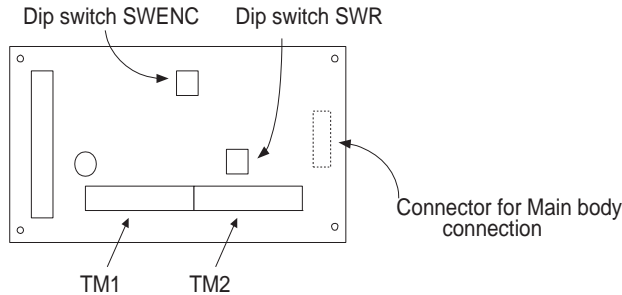
Encoder feedback board

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.

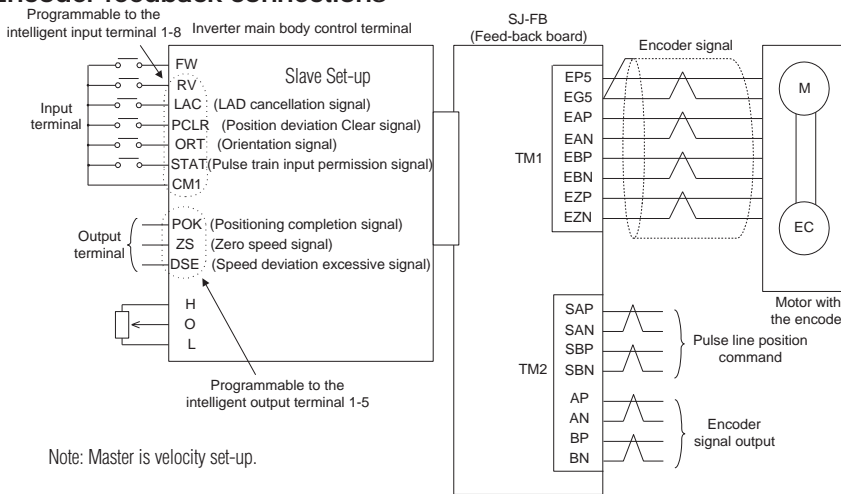
SJ-FB Feedback Board			
Price		\$385.00	
Speed control	Encoder Feed-back	Standard encoder pulse number 1024 pulses per revolution Max. input pulse 100k pulses per second	
	Speed Control System	Proportional-integral (PI) / Proportional (P) control	
Electronic Gears Control	Pulse Selection for Electronic Gears	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	
		Electronic Gears	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



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