

■ Basic specifications

Item		Model	ERCD	
Number of controllable axes			Single-axis	
Controllable robots			Single-axis robot FLIP-X series T4L / T5L / C4L / C5L	
Basic specifications	Capacity of the connected motor		DC24V 30W or less	
	Dimensions		W44 × H166 × D117mm	
	Weight		0.45kg	
	Input power supply		DC24V +/-10% maximum 3A to 4.5A (Variable depending on robots in use.)	
Axis control	Drive method		AC full-digital software servo	
	Position detection method		Resolver	
	Operating method		Normal mode: point trace movement, program operation, operation using RS-232C communication Pulse Train mode: operation by pulse train input	
	Position indication units		mm (millimeters)	
	Speed setting		1% to 100% (Setting by 1% unit)	
	Acceleration setting		1. Automatic speed setting per robot No. and payload 2. Setting based on acceleration and deceleration parameter 1% to 100% (Setting by 1% unit)	
	Resolution		16384 P/rev	
	Origin search method		Incremental	
Program	Program language		YAMAHA SRC	
	Multitasks		4 tasks	
Memory	Point-data input method		Manual data input (coordinates input), Direct teaching, Remote teaching	
	RAM		32 Kbytes with lithium battery backup (5-year life) Retains programs, point data, parameters and alarm history	
	Programs		100 programs (Maximum program number) 255 steps per program 1024 steps / total or less	
	Points		1000 points (256 when point tracing)	
External input/output	I/O interface	Normal mode Note 1	Sequence input	Dedicated input 8 points, General input 6 points
			Sequence output	Dedicated input 3 points, General input 6 points, Open collector output
		Pulse train mode Note 1	Sequence input	Dedicated input 5 points, General input 6 points
			Sequence output	Dedicated input 3 points, General input 6 points, Open collector output
			Command pulse input	Type
		Mode		Line driver (+5V)
		Frequency		Maximum 2 Mpps
		Feedback pulse output	Terminal name	PA+, PA-, PB+, PB-, PZ+, PZ-
			Type	Phase A / phase B / phase Z
			Mode	Line driver (+5V)
			Number of pulse	16 to 4096 P/rev
		Power supply for sequence I/O		External DC +24V input
		Emergency stop input		Normal close contact point input
		Brake output		Relay output (for 24V/300mA brake) 1CH
	External communications		RS-232C 1CH (For communication with HPB or PC)	