

Basic specifications

Item	Model	ERCD		
Number of controllable axes		Single-axis		
Controllable robots		Single-axis robot FLIP-X series T4L / T5L / C4L / C5L / YMS		
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		
Point-data input method		Manual data input (coordinates input), Direct teaching, Remote teaching		
Memory	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 ^{Note1}	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 ^{Note1}	Command pulse input	Sequence input	Dedicated input 5 points, General input 6 points
			Sequence output	Dedicated input 3 points, General input 6 points, Open collector output
			Type	1.Phase A / phase B, 2.Pulse / code, 3.CW / CCW
	Feedback pulse output		Mode	Line driver (+5V)
			Frequency	Maximum 2 Mpps
			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)		
Options	Programming box		HPB, HPB-D (with enable switch)	
	Support software for PC		POPCOM	
General specifications	Operating temperature		0°C to 40°C	
	Storage temperature		-10°C to 65°C	
	Operating humidity		35% to 85%RH (non-condensing)	
	Noise resistance capacity		IEC61000-4-4 Level 2	
	Protective functions		Overload, overvoltage, voltage drop, resolver wire breakage, runaway detection, etc.	

Note 1. Switching between the normal mode and pulse train mode is done by use of the parameter.