

Basic specifications

TS-S2/TS-SH

Item		Model	TS-S2	TS-SH
Basic specifications	Number of controllable axes		Single-axis	
	Controllable robots		TRANSERVO series	
	Current consumption		2.5A (Rating) 4.5A (Max.)	3.5A (Rating) 6.5A (Max.)
	Dimensions		W30 × H162 × D82mm	W30 × H162 × D123mm
	Weight		Approx. 0.2kg	Approx. 0.3kg
Input power supply	Control power supply	DC24V +/-10%		
	Motor power supply	DC24V +/-10%		
Control method		Closed loop vector control method		
Operating method		I/O point tracing (Positioning operation by specifying point number) / Remote command		
Operation types		Positioning, merge-positioning, push, and jog operations		
Position detection method		Resolver	Resolver with multi-turn absolute function	
Resolution		20480 pulses/rev. or 4096 pulses/rev. depending on the robot		
Origin search method		Incremental	Absolute / Incremental	
Points		255 points		
Point type setting		(1) Standard setting: Set speed and acceleration in percent of the respective maximum settings. (2) Custom setting: Set speed and acceleration in SI units.		
Point teaching method		Manual data input (coordinates input), Teaching, Direct teaching		
I/O interface		Selectable from the following: NPN, PNP, CC-Link, DeviceNet™, EtherNet/IP™, PROFINET		
External input/output	Input		Servo ON (SERVO), reset (RESET), start (START), interlock (/LOCK) origin search (ORG), manual mode (MANUAL), jog motion - (JOG-), jog motion + (JOG+), Point number selection (PIN0 to PIN7)	
	Output		Servo status (SRV-S), alarm (/ALM), operation end (END), operation in-progress (BUSY), control outputs (OUT0 to 3), Point number output 0 to 7 (POUT0 to POUT7)	
	External communications		RS-232C 1CH	
Safety circuit		Emergency stop input, emergency stop contact output (1 system: When the HT1 is used.)		
Options		Handy terminal: HT1, HT1-D (with enable switch) Support software for PC: TS-Manager		
Operating temperature / Operating humidity		0°C to 40°C, 35% to 85%RH (non-condensing)		
Storage temperature/ Storage humidity		-10°C to 65°C, 10% to 85%RH (non-condensing)		
Atmosphere		Indoor location not exposed to direct sunlight. No corrosive, flammable gases, oil mist, or dust particles		
Anti-vibration		All XYZ directions 10 to 57Hz unidirectional amplitude 0.075mm 57 to 150Hz 9.8m/s ²		
Protective functions		Position detection error, temperature error, overload, overvoltage, low voltage, excessive position deviation, overcurrent, motor current error, motor cable faulty wiring, Excitation power failure error ^{Note 1}		

Note 1. The excitation power failure error is a protection function that is available only in TS-SH.