

KEYENCE CORPORATION

AC servo system SV2 Series

Features

- Response delays for commands can be reduced to the utmost by speed response frequency of 2.6 kHz.
- Synchronization of communication cycles (125 μs) with the host controller make high-speed, high accuracy operation possible.
- Due to significantly higher accuracy with 22-bit encoder resolution
- Incorporated analog feedback function to ensure the load applied to the work-piece coincides with the target value.
- The 2-stage notch filter is automatically configured, and manually notch filter configurable up to 5-stage.
- Complies with IEC 61800-5-2 (STO), ISO 13849-1 (PLe), and IEC 61508 (SIL3).



SV2 Series

Specifications

Item		Specifications
MECHATROLINK-III communication	Operating specifications	Position control / speed control / torque control via MECHATROLINK-III
	Command input	MECHATROLINK-III command (sequence, motion, monitor, adjustment, etc.)
Compatible motor capacity		50W to 5kW
Performance		Speed frequency response frequency: 2.6kHz, Torque control accuracy (reproducibility: ±1%)
Encoder resolution		22bit (Absolute type)
Input signal	Number of inputs	7 (3 high-speed input, 4 general input)
	Function	Forced stop (FSTOP), external latch signals 1 to 3 (EXT1, EXT2, EXT3), origin return deceleration switch (DEC), forward limit switch (LSP), reverse limit switch (LSN), forward torque limit selection (PTL), reverse torque limit selection (NTL) *Full signal assignment, logic-settable
Output signal	Number of outputs	4
	Function	Alarm (ALARM), in position (INPOS), speed matching (VCMP), zero speed detection (ZSP), operation preparation complete (RDY), torque limiting (TLM), speed limiting (VLM), electromagnetic brake timing (BRAKE), warning (WARN), Positioning proximity (NEAR) *Individual signal assignment excluding ALARM signal, logic-settable alarm
Analogue feedback function		Max. input voltage: ±12V, Accuracy: ±1% of F.S., Resolution: ±12bit
Available option function		Fully closed control (When using fully closed module)
Safety function		IEC61800-5-2(STO), ISO13849-1(PLe), IEC61508(SIL3) Input: Base block signal for power module Output: Built-in safety circuit status monitoring

MECHATROLINK specifications

	M-III
Profile	Standard servo
Data size	32byte, 48byte
Transmission cycle	125μs, 250μs, 500μs, 750μs, 1ms to 4ms (in 0.5ms unit)

Contact Information

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