

## 山洋电气株式会社

### SANMOTION R ADVANCED MODEL

#### Features

- With feed-forward vibration suppression control, vibrations at the processing point and base of a machine can be suppressed through simple tuning procedures.  
Vibration control frequencies are selectable.
- Model-based tracking control enables an improved target response curve, enhanced disturbance suppression, and greater robustness.
- With auto-tuning, servo amplifier automatically optimizes servo gain and filter frequency in realtime.
- Since this model safely shuts down motor torque, safety systems are more easily installed on the equipment. In addition, this model meets requirements for “IEC61508 (SIL2), IEC62061 (SILCL2)” and “ISO13849-1 (Cat.3, PL=d)”



RS2□□□A2M□5

#### Specifications

Item		Specifications
MECHATROLINK Communications	Control Specifications	Position control, speed control, and torque control via MECHATROLINK-III communications
	Command Type	MECHATROLINK commands for sequence, motion, data writing/reading, monitoring, adjustment, etc.
Applicable Motor Capacity		30 W to 15 kW
Encoder	Resolution	17bit, 20bit
	Type	Battery-less optical absolute encoder, Optical absolute encoder for incremental systems
Input Signals	Number of channels	Interactive photo coupler (sink, source connection) ×6 inputs
	Function	Forward direction limit switch, Reverse direction limit switch, External trip, Forced discharge, Emergency stop.
Output Signals	Number of channels	Photorelay output (sink, source connection) × 2 outputs
	Function	Servo ready, Power ON, Servo ON, Holding brake timing, Torque limiting, Low speed, Velocity attainment, Matching speed, Zero speed, Command acceptable, Status of gain switch, Velocity loop proportional control status, Control mode switchover status, Forward/Reverse direction limit, Reverse OT, Warning, Alarm code (3bits), etc.
Protection functions		Over current, Current detection error, Overload, Regeneration error, Magnetic pole position estimation error, Amplifier overheating, External overheating, Over voltage, Main circuit power low voltage, Main circuit power supply open phase, Control power supply low voltage, Encoder error, Over speed, Speed control error, Speed feedback error, Excessive position, Position command error, Built-in memory error, Parameter error
Safety standard		UL, CE marking (EMC directive, low voltage directive), Function safety standards (Model with safety function)

#### MECHATROLINK specifications

	M-III
Profile	Standard servo
Data size	32 / 48 byte
Transmission cycle	0.25 ms to 8 ms

#### Contact Information

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