



KV-SH04PL

Pulse type positioning unit



*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

Model		KV-SH04PL
Type		High-speed positioning unit
No. of control axes		4 axes
Input		Positive (negative) direction limit switch, origin sensor, stop sensor, continuous instant starting, 1 point per axis for 4 points in total, 24 VDC input possible Forced stop input, 1 point shared by whole axes, 24 VDC input possible Z-phase input (+) (-), servo end, servo ready, drive alarm, 1 point per axis for 4 points in total, 5 VDC input possible
Output		Pulse output (differential line driver): equivalent to AM26C31 (max. 20 mA), Pulse output (open collector): rated load: 30 VDC, 0.1 A or less Drive alarm reset, servo ON, deviation counter clear, rated load: 30 VDC, 0.1 A or less
Output frequency		1 Hz to 8 MHz
Output format		Differential line driver output/open collector output (switched per axis via hardware switch) (1-pulse mode/2-pulse mode/2-phase 1-multiplication/2-phase 2-multiplication/2-phase 4-multiplication)
Control mode		Standard mode, High-speed mode
Control period		Standard mode: 500 μ s, High-speed mode: 62.5 μ s
Starting time		Standard mode: 500 μ s or more, High-speed mode: 8 μ s or more (continuous instant starting: 1 μ s)
Basic operation		Standard mode: Origin return/JOG, linear interpolation (2 to 4 axes), position control (ABS/INC), speed control (+/- direction) High-speed mode: Origin return/JOG, position control (ABS/INC), speed control (+/- direction)
Function		Standard mode: Speed change, target change, stop sensor, speed override, stop at specified angle, continuous operation interrupt, forced next point, absolute position follow-up control, sync type follow-up control High-speed mode: Speed change, target change, stop sensor, continuous instant starting
Position unit		Standard mode: mm, deg (angle), PLS (pulse count), decimal place 0 to 9, unit conversion function High-speed mode: PLS (pulse count)
Positioning control	Position setting range	-2147483648 to 2147483647
	Acceleration/deceleration curve	Standard mode: Linear, SIN High-speed mode: Linear
	Acceleration/deceleration rate	Acceleration/deceleration individual setting
	Acceleration/deceleration time	Standard mode: 0 to 65535 ms
	M-code	0 to 65000, WITH/AFTER mode
	Number of points	100 points/axis
Origin return	Origin return method	Dog type ("With Z phase" or "Without Z phase" can be selected by pushing the button), Dog type inching ("With Z phase" or "Without Z phase")*1,

		origin sensor (edge/midpoint/Z-phase), limit switch edge, immediate Z-phase origin return, data set type
JOG/inching		Inching (number of pulses can be specified)*1, JOG
Teaching		Current coordinate teaching
24 V power input (I/O)		24 VDC (-15%/+20%)
5 V power output		5 VDC (±10%), 200 mA or less
Others		Multi-axis simultaneous starting based on unit interrupt/inter-unit synchronization
Internal current consumption		200 mA or less, external I/O: 260 mA or less
Weight		Approx. 230 g

*1 High-speed mode cannot be set.

Dimensions

* Download CAD file or product manual for larger image/text and more detail.

kv-sh04pl_dimension_01.gif

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