

2.3 Performance Specifications

Model	FX3G (14-point and 24-point type) /FX3S/FX3GC PLC* ¹ (main unit, transistor output)	FX3G (40-point and 60-point type) /FX3U/FX3UC PLC* ¹ (main unit, transistor output)	FX3U-2HSY-ADP* ²
Number of control axes	2 independent axes	3 independent axes	2 independent axes (Connect 2 adapters to the main unit to control 4 axes independently.)
Interpolation	-		-
Pulse output form	Transistor		Differential line driver
Pulse output method	"Pulse train + direction" method		"Pulse train + direction" method "Forward/reverse rotation pulse train" method
Maximum frequency	100,000Hz		200,000Hz
Acceleration/ deceleration type	Trapezoidal acceleration/deceleration		
Unit	pulse		
Positioning range	-999,999 to +999,999 (pulse)		
Program language	Sequence program		
Position data	1 point (set in sequence program)		
Connection of manual pulse generator	-	-	-
Detection of absolute position (Reads out the current value of ABS.)	ABS instruction		
Others	Pulses can be output from the general-purpose outputs (Y000 and Y001) of the main unit.	Pulses can be output from the general-purpose outputs (Y000, Y001 and Y002) of the main unit.	<ul style="list-style-type: none"> To be used when a servo amplifier with a differential line receiver is connected. To be used when positioning control is performed with a FX3U Series relay output type or triac output type main unit. Used in place of the general-purpose outputs (Y000 to Y007)*³ of the main unit.

*1. For MELSERVO Series amplifiers, use a sink input/sink output type PLC.

*2. Can only be connected to the FX3U PLC. Up to 2 adapters can be connected.

*3. If 2 adapters are connected, Y000 to Y007 will be used. If only one adapter is connected, Y000, Y001, Y004, and Y005 will be used. The relation between the output of the FX3U-2HSY-ADP and the output of main unit is described in the following sections.

→ To use high-speed output special adapters, refer to Subsection 1.5.3 and Section 4.9 of "B. Built-in Positioning Function".