

FX SERIES SELECTION GUIDE

Select System Item		Select Item Specification		Select an Applicable FX Model					
System Item	Item Specification *	Terminal-type I/O				Connector-type I/O			
		Non-Extendable *		Extendable		Extendable			
		<i>FX1S</i>	<i>FX3S</i>	<i>FX3G</i>	<i>FX3U</i>	<i>FX3GC</i>	<i>FX3UC</i>		
Hardware	I/O points	Up to 30 local I/O's	✓	✓	★	★	★	★	
		Up to 128 local I/O's			✓	★	✓	★	
		Up to 256 local I/O's				✓		✓	
		Up to 256 local and network I/O's			✓	★	✓	★	
		Up to 384 local and network I/O's				✓		✓	
	Power Supply	AC Power	✓	✓	✓	✓			
		DC Power	✓		✓	✓	✓	✓	
	Input type	100 V AC				✓			
		24 V DC	✓	✓	✓	✓	✓	✓	
	Output type	Relay	✓	✓	✓	✓		✓	
		Transistor	✓	✓	✓	✓	✓	✓	
		Triac				✓			
	CPU Speed	Standard	✓	✓	✓	★	✓	★	
		Advanced				✓		✓	
Communication ports	USB		✓	✓		✓			
	RS-422	✓	✓	✓	✓	✓	✓		
Options	Analog I/O (Current / Voltage)	Up to 4 ADP channels		✓	✓	✓	✓		
		Up to 8 ADP channels			✓*1	★	✓	★	
		Up to 16 ADP channels				✓		✓	
		Up to 64 special function block channels			✓	✓	✓	✓	
Temperature Sensor Input	Up to 4 ADP input channels		✓	✓	✓	✓	✓		
		Up to 8 ADP input channels			✓*1	★	✓	★	
		Up to 16 ADP input channels				✓		✓	
		Up to 64 special function block input channels			✓	✓	✓	✓	
Network	Temperature control			✓	✓	✓	✓		
	CC-Link (Master/Slave)			✓	✓	✓	✓		
Communication	N : N Network/Parallel Link			✓	✓	✓	✓		
			✓	✓	✓	✓	✓		
	Computer Link (RS-232C/RS-485)		✓	✓	✓	✓	✓	✓	
		Non-Protocol Communication	1 Channel (RS-232C/RS-485)	✓	✓	★	★	★	★
			Multi-Channel (RS-232C)			✓	✓	✓	✓
	Multi-Channel (RS-485)				✓	✓	✓	✓	
	Add-on Communication Ports	RS-485	✓	✓	✓	✓	✓	✓	
		RS-232C	✓	✓	✓	✓	✓	✓	
		USB				✓			
	Embedded USB		✓	✓		✓			
Modbus®		✓	✓	✓	✓	✓			
Inverter control	Analog	✓	✓	✓	✓	✓	✓		
	Pulse width modulation	✓	✓	✓	✓	✓	✓		
	RS-485 Communication		✓	✓	✓	✓	✓		
Positioning	1 - 2 100 kHz Axis Built-in Positioning	✓	✓	✓	★	✓	★		
	Up to 3 x 100 kHz Axis Built-in Positioning			✓*2	✓		✓		
	Up to 4 x 200 kHz Axis with High-Speed Output Adapters				✓				
	Up to 8 x 1 MHz Axis with Special Function Blocks				✓		✓		
	Up to 16 SSCNET III Axis with Special Function Blocks				✓		✓		
	Cam switching				✓		✓		
High-Speed Counters	Up to 6 high speed counters, Max. 60 kHz	✓	✓	✓	★	✓	★		
	Up to 8 high speed counters, Max. 100 kHz				✓		✓		
	Up to 8 high speed counters with 200 kHz Adapter				✓				
	Additional Extension using High-Speed Counter Block				✓		✓		
Data Logging	CF card Adapter				✓		✓		

*: Some items require additional extension modules in order to function where other connection rules and requirements may apply. For more details, refer to the respective product manuals.

✓ : Contains required functionality
 ★ : Higher functionality or more expandability
 *1 : 14 and 24 I/O points main units: Max. 4 channels
 *2 : 14 and 24 I/O points main units: Max. 2 axes