

High Speed Counting

FX High-Speed I/O and Positioning Expansion

High-Speed Counters and Pulse Train Output

These high-speed modules provide additional counting and pulse output features to the PLC.

Model Number	FX2N-1HC	FX2NC-1HC	FX3U-2HC	FX3U-4HSX-ADP	FX3U-2HSY-ADP	
Stocked Item	S	-	S	S	S	
Certification	UL • cUL • CE (EMC)					
Applicable PLCs	FX3U / FX3UC	FX3UC	FX3U / FX3UC	FX3U	FX3U	
Signal Level	5, 12, 24VDC / 7 mA			5VDC	-	
Power Supply	5VDC	90 mA (from main unit)		245 mA (from main unit)		
	24VDC	-		30 mA (from main unit)	60 mA (from main unit)	
Maximum Connectivity	-		-	2	2	
Counter	Inputs	1 phase (1 input or 2 input); 2 phase (1 edge, 2 edge or 4 edge count)			4	-
	Outputs	-			-	2
Max Counter Frequency	Input	50 kHz	200 kHz	1 phase: 200kHz; 2 phase: 100kHz		
	Output	-			200 kHz	
Input Format	Differential line receiver and open collector			Differential line receiver (equivalent to AM26C32) photocoupler isolation on inputs		
Type of Counter	Up / down counter, ring counter			-		
Output Format	-			Differential line driver (equivalent to AM26C32) pulse/direction or forward/reverse rotation)		
Counting Range (Up/Down and Ring Counter)	16 Bit	0 to 65,535			-	
	32 Bit	-2147483648 to +2147483647			-	
Output Type	2 x transistor (5 to 24VDC / 0.5A)		4 x transistor (5 to 24VDC / 0.5A)	-	less than 25 mA	
Related I/O Points	8			4 (4 input)	4 (2 output points occupied per high-speed output)	
Dimensions (W x H x D) mm	55 x 90 x 87	20.2 x 90 x 89	55 x 90 x 87	17.6 x 90 x 89.5	17.6 x 90 x 89.5	