

■ High-Speed Counter Modules

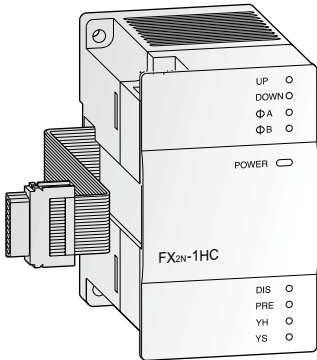
FX1S FX1N FX2N FX2NC FX3U

FX2N-1HC

In addition to the internal high-speed MELSEC FX counters, the high-speed counter module FX2N-1HC provides the user with an external counter. It counts 1- or 2-phase pulses up to a frequency of 50 kHz. The counting range covers either 16 or 32 bit.

The two integrated transistor outputs can be switched independently of one another by means of internal comparison functions. Hence, simple positioning tasks can also be realized economically. In addition, the FX2N-1HC can be used as a ring counter.

Note: When attaching the module to a FX2NC base unit, the interface adapter FX2NC-CNV-IF is required.



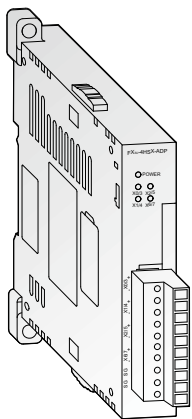
Specifications	FX2N-1HC
Signal level	5, 12, 24 V DC / 7 mA
Power supply	5 V DC / 90 mA (from base unit)
Counter inputs	2 (1 phase) or 1 (2 phase)
Max. counting frequency	kHz 50
Input format	bit 16, 32
Type of counter	Up/down counter, ring counter
Counting range	16 bit 0 – 65535
	32 bit -2147483648 – +2147483647
Output type	2 x transistor (5 – 24 V DC; 0.5 A)
Related I/O points	8
Weight	kg 0.3
Dimensions (W x H x D)	mm 55 x 90 x 87

■ High-Speed Counter Adapters

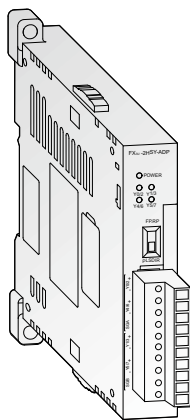
FX1S FX1N FX2N FX2NC FX3U

FX3U-4HSX-ADP, FX3U-2HSY-ADP

These adapter modules allow direct processing of positioning application data. The FX3U-4HSX-ADP provides high speed counter input up to 200 kHz while the FX3U-2HSY-ADP delivers 2 channels of pulse train outputs up to 200 kHz.



FX3U-4HSX-ADP



FX3U-2HSY-ADP

Specifications	FX3U-4HSX-ADP	FX3U-2HSY-ADP
Power supply	5 V DC / 30 mA (from base unit); 24 V DC / 30 mA (from base unit)	5 V DC / 30 mA (from base unit); 24 V DC / 60 mA (from base unit)
Maximum connectivity	2	2
Related I/O points	0	0
Counter	inputs 4	—
	outputs —	2
Max. counting frequency	inputs kHz 1 ch 1 input or 1 ch 2 inputs: 200 2 ch 2 inputs: 100	—
	outputs kHz —	200
Input format	Differential line receiver (AM26C32 is suitable) Photocoupler isolation on inputs	—
Output format	—	Differential line driver (AM26C31 is suitable) Normal rotation pulse train, reverse pulse train or pulse train + one
Maximum cable length	m 10	10
Input potential	5 V DC	—
Output load	—	less than 25 mA
Weight	kg 0.08	0.08
Dimensions (W x H x D)	mm 17.6 x 90 (106) x 89.5	17.6 x 90 (106) x 89.5