

I/O Modules Unpowered I/O Modules

Model Number	FX5-8EX/ES	FX5-8EYT/ESS	FX5-8EYR/ES	FX5-8EYT/ES	FX5-16ER/ES	FX5-16ET/ES	FX5-16ET/ESS
Stocked Item	S	S	S	S	S	S	S
Certification	UL • cUL • CE						
Applicable PLCs	FX5U/FX5UC						
Total No. of Points	8	8	8	8	16	16	16
No. of Input Points	8	-	-	-	8	8	8
No. of Output Points	-	8	8	8	8	8	8
Input Type	24 VDC (Sink/ Source)	-	-	-	24V DC (sink/source)		
Output Type	-	Transistor (Source)	Relay	Transistor (Sink)	Relay	Transistor (sink)	Transistor (source)
Connection Type	Terminal block						
5 VDC Power Supply	75 mA	75 mA	75 mA	75 mA	100mA		
24 VDC Power Supply	50 mA	75 mA	75 mA	75 mA	125 mA	125 mA	125 mA
Weight (kg)	0.2	0.2	0.2	0.2	0.25	0.25	0.25
Dimensions (W x H x D) mm	40 x 90 x 83	40 x 90 x 83	40 x 90 x 83	40 x 90 x 83	40 x 90 x 83	40 x 90 x 83	40 x 90 x 83

Model Number	FX5-16EX/ES	FX5-16EYR/ES	FX5-16EYT/ES	FX5-16EYT/ESS
Stocked Item	S	S	S	S
Certification	UL • cUL • CE			
Applicable PLCs	FX5U/FX5UC			
Total No. of Points	16	16	16	16
No. of Input Points	16	-	-	-
No. of Output Points	-	16	16	16
Input Type	24 VDC (Sink/Source)	-	-	-
Output Type	-	Relay	Transistor (Sink)	Transistor (Source)
Connection Type	Terminal block			
5 VDC Power Supply	100 mA	100 mA	100 mA	100 mA
24 VDC Power Supply	85 mA	125 mA	125 mA	125 mA
Weight (kg)	0.25	0.25	0.25	0.25
Dimensions (W x H x D) mm	40 x 90 x 83	40 x 90 x 83	40 x 90 x 83	40 x 90 x 83

Model Number	FX5-C16EX/D	FX5-C16EX/DS	FX5-C16EYT/D	FX5-C16EYT/DSS	FX5-C16EYR/D-TS
Stocked Item	S	S	S	S	S
Certification	UL • cUL • CE				
Applicable PLCs	FX5U/FX5UC				
Integrated Inputs/Outputs	16	16	16	16	16
Integrated Inputs	16	16	-	-	-
Integrated Outputs	-	-	16	16	16
Input Type	24 VDC (Sink)	24 VDC (Sink/Source)	-	-	-
Output Type	-	-	Transistor (Sink)	Transistor (Source)	Relay
Connection Type	Connector				Spring clamp
5 VDC Power Supply	100 mA	100mA	100mA	100 mA	100 mA
24 VDC Service Power Supply	-	-	100 mA	100 mA	100 mA
External 24 VDC Power Supply (For Input Circuits)	65 mA	65 mA	-	-	-
Weight (kg)	0.1	0.1	0.1	0.1	0.2
Dimensions (W x H x D) mm	14.6 x 90 x 87	14.6 x 90 x 87	14.6 x 90 x 87	14.6 x 90 x 87	30.7 x 90 x 93.7

Model Number	FX5-C32EX/DS-TS	FX5-C32EYT/D-TS	FX5-C32EYT/DSS-TS	FX5-C32ET/DS-TS	FX5-C32ET/DSS-TS
Stocked Item	S	S	S	S	S
Certification	UL • cUL • CE				
Applicable PLCs	FX5U/FX5UC				
Integrated Inputs/Outputs	32	32	32	32	32
Integrated Inputs	32	-	-	16	16
Integrated Outputs	-	32	32	16	16
Input Type	24 VDC (Sink/Source)	-	-	24 VDC (Sink/Source)	24 VDC (Sink/Source)
Output Type	-	Transistor (Sink)	Transistor (Source)	Transistor (Sink)	Transistor (Source)
Connection Type	Spring clamp				
5 VDC Power Supply	120 mA	120 mA	120 mA	120 mA	120 mA
24 VDC Service Power Supply	-	200 mA	200 mA	100 mA	100 mA
External 24 VDC Power Supply (For Input Circuits)	130 mA	-	-	65 mA	65 mA
Weight (kg)	0.15	0.15	0.15	0.15	0.15
Dimensions (W x H x D) mm	20.1 x 90 x 93.7	20.1 x 90 x 93.7	20.1 x 90 x 93.7	20.1 x 90 x 93.7	20.1 x 90 x 93.7

Model Number	FX5-C32EX/D	FX5-C32EX/DS	FX5-C32EYT/D	FX5-C32EYT/DSS	FX5-C32ET/D	FX5-C32ET/DSS
Stocked Item	S	S	S	S	S	S
Certification	UL • cUL • CE					
Applicable PLCs	FX5U/FX5UC					
Integrated Inputs/Outputs	32	32	32	32	32	32
Integrated Inputs	32	32	-	-	16	16
Integrated Outputs	-	-	32	32	16	16
Input Type	24 VDC (Sink)	24 VDC (Sink/Source)	-	-	24 VDC (Sink)	24 VDC (Sink/Source)
Output Type	-	-	Transistor (Sink)	Transistor (Source)	Transistor (Sink)	Transistor (Source)
Connection Type	Connector					
5 VDC Power Supply	120 mA	120 mA	120 mA	120 mA	120 mA	120 mA
24 VDC Service Power Supply	-	-	200 mA	200 mA	100 mA	100 mA
External 24 VDC Power Supply (For Input Circuits)	130 mA	130 mA	-	-	65 mA	65 mA
Weight (kg)	0.15	0.15	0.15	0.15	0.15	0.15
Dimensions (W x H x D) mm	20.1 x 90 x 87	20.1 x 90 x 87	20.1 x 90 x 87	20.1 x 90 x 87	20.1 x 90 x 87	20.1 x 90 x 87

Powered I/O Modules

Model Number	FX5-32ER/ES	FX5-32ET/ES	FX5-32ET/ESS	FX5-32ER/DS	FX5-32ET/DS	FX5-32ET/DSS
Stocked Item	S	S	S	S	S	S
Certification	UL • cUL • CE					
Power Supply	100 to 240VAC			24VDC		
Applicable PLCs	FX5U			FX5U/FX5UC		
Total No. of Points	32	32	32	32	32	32
No. of Input Points	16	16	16	16	16	16
No. of Output Points	16	16	16	16	16	16
Input Type	24 VDC (Sink/Source)					
Output Type	Relay	Transistor (Sink)	Transistor (Source)	Relay	Transistor (Sink)	Transistor (Source)
Connection Type	Terminal block					
5 VDC Power Supply	965 mA	965 mA	965 mA	965 mA	965 mA	965 mA
24 VDC Power Supply	250 mA (310 mA) (*1)	250 mA (310 mA) (*1)	250 mA (310 mA) (*1)	310 mA	310 mA	310 mA
Weight (kg)	0.65	0.65	0.65	0.65	0.65	0.65
Dimensions (W x H x D) mm	150 x 90 x 83	150 x 90 x 83	150 x 90 x 83	150 x 90 x 83	150 x 90 x 83	150 x 90 x 83

Note 1: Power supply capacity when external power supply is used for input circuit.

High-Speed Pulse Input/Output Modules

High-Speed Pulse Input/Output modules connect to the FX5 CPU module and include high-speed counter, pulse width measurement, input interrupt and PWM output functions. They can be used as general input/output.

Model Number	FX5-16ET/ES-H	FX5-16ET/ESS-H
Stock	S	S
Certification	UL • cUL • CE	
Applicable CPU	FX5U/FX5UC (FX5-CNV-IFC or FX5-C1PS-5V is needed when using FX5UC)	
Rated Voltage	5 VDC (internal power), 24 VDC (service power supply or external power supply)	
Current Consumption	100 mA/5 VDC, 125 mA/24 VDC (current of the input circuit is included)	
Number of Input Points	8 points (sink/source)	
Input Signal Voltage	24 VDC +20%, -15%	
Input Signal Current	5.3 mA/24 VDC	
Input Impedance	4.3 kΩ	
Input Response Time	None, 10 μs, 50 μs, 0.1 ms, 0.2 ms, 0.4 ms, 0.6 ms, 1 ms, 5 ms, 10 ms (initial values), 20 ms, 70 ms	
Number of Output Points	8 points	
Output Type	Sink	Source
External Power Supply	5 to 30 V DC	
Maximum Load	1.6A/8 points common	
Open Circuit Leakage Current	0.1 mA or less/30 V DC	
Connection Type	Terminal Block (M3 Screw)	
Weight (kg)	0.25	
Dimensions (W x H x D) mm	40 x 90 x 83	40 x 90 x 83