XINJE

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EtherCAT | CANopen | Ethernet | CODESYS

Programmable Controller XD / XL / XG / XS

Super product lineup • Provide all-round control solutions

Industrial automation trusted partner

New High Performance Model

XS3 Series

Based on Codesys programming platform, the programming efficiency is significantly improved.

XS3 series new medium-sized PLC supports PLCopen programming specification, and can reference many standard function libraries to develop proprietary function blocks and instruction libraries.

① EtherCAT motion control
② Support EtherCAT remote IO
③ 32 channels electronic CAM
④ Ethernet communication
⑤ Online downloading

Performance specification

Product model XS3-		26T4
Main body I/O	Total points	26
	Input points	18
	Output points	8
Max I/O points		1050
High speed positioning	Normal pulse output	4 axes, max 100KHz (not supported right now)
	Differential pulse output	-
High speed input	Single/AB phase mode	4 channels, max 200Khz
	Input mode	Differential input
Expansion capability	Right expansion module	16
	Left expansion module	-
	BD Board	-
Interruption	External interrupt	10
Communication function	RS232	1 port, can connect IP modification tool or communicate with other devices
	RS485	2 ports, Modbus, connect HMI and other communication devices
	RJ45 Port1	LAN1: Ethernet IP, TCP / IP, UDP, OPC UA, free format protocol, support program downloading and monitoring
	RJ45 Port2	LAN2: EtherCAT real-time bus master station
Bus motion control		EtherCAT bus mode, 32 axes
CAM control		EtherCAT bus mode, 32 axes
PWM pulse width modulation		-
Frequency measurement		-
Precise timing		-
Multi-station control		-
Programming mode		ST, SFC, FBD, CFC, LD and IL
Main processor		Dominant frequency 800MHz
User program capacity		32MB
Data capacity		32MB (including power off holding 6MB)

*Note: The '-' in the table indicates this model doesn't support this function.

XS3 Series model list

Model						
	AC power supply			DC Power supply		
	Relay output	Transistor output	Transistor&relay mixed output	Relay output	Transistor output	Transistor&relay mixed output
NPN type	-	-	-	-	XS3-26T4	-

Basic Unit General Specification

General specification

Item	Specification
Insulation voltage	Above DC500V 2MΩ
Anti-noise	Noise voltage 1000Vp-p 1us pulse 1 minute
Air	No corrosive and combustible gases
Ambient temperature	0℃~60℃
Ambient humidity	5%~95% (no condensation)
Installation	It can be fixed with M3 screws or directly installed on the rail
Ground (FG)	The third kind of grounding (not common grounding with strong current system)

Power supply specification

Item	Specification
Rated voltage	DC24V
Voltage allowable range	DC21.6V~26.4V
Input current (only for basic unit)	120mA DC24V
Allowable instantaneous power off time	10ms DC24V
Impact current	10A DC26.4V
Maximum power consumption	12W
Power supply for sensor	24VDC±10%

Input specification

XG2/XS3 series PLC input specification

XG2/XS3 series PLC supports NPN and differential signal input mode.

NPN mode specification

Item	Specification
Input signal voltage	DC24V±10%
Input signal current	7mA/DC24V
Input ON current	Above 4.5mA
Input OFF current	Below 1.5mA
Input reponse time	About 10ms
Input signal form	Contact input NPN open collector transistor (X2, X5, X10, X13, X14, X15, X16, X17, X20, X21)
Circuit insulation	Photoelectric coupling insulation
Input action display	LED lights when input is ON

Differential signal mode specification

Item	Specification
Input signal voltage	DC5V±10%
Input signal current	12mA/DC5V
Input ON current	Above 4.5mA
Input OFF current	Below 1.5mA
Input response feature	Max 200KHz
Input signal form	Differential input (X0, X1, X3, X4, X6, X7, X11, X12)
Circuit insulation	Photoelectric coupling insulation
Input action display	LED lights when input is ON

*Note: X0+, X0-, X1+, X1-; X3+, X3-, X4+, X4-; X6+, X6-, X7+, X7-; X11+, X11-, X12+, X12- are four groups of differential signal, which can be high speed counting terminals. To receive the collector signal, first convert the differential signal into collector signal through differential to collector board (DIFF-OC).

Output specification

General transistor output

External power supply		Below DC5~30V
Circuit insulation		Optocoupler insulation
Action indicator		LED indicator
Max load	Resistive load	0.3A
	Inductive load	7.2W/DC24V
	Light load	1.5W/DC24V
Min load		DC5V 2mA
Open circuit leakage current		Below .01mA
Response time	OFF→ON	Below 0.2ms
	ON→OFF	Below 0.2ms