XINJE

EtherCAT | CANopen | Ethernet | CODESYS

Programmable Controller XD / XL / XG / XS

Super product lineup • Provide all-round control solutions

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CODESYS High Performance Type

XSLH Series

The small PLC developed based on Codesys platform can significantly improve the programming efficiency and support the PLCopen programming specification. Many standard function libraries can be referenced 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 download

Performance specification

Product series XSLH-		30A32
PLC body I/O	Total points	30
	Input points	14
	Output points	16
Max I/O points		542
High speed positioning	General pulse output	4 axes (not supported right now)
	Differential pulse output	-
High speed input	Single/AB phase mode	4 channels
	Input mode	2 channels differential signal + 2 channels OC
Expansion ability	Right expansion module	16
	Left expansion module	1
	BD board	-
External interrupt		10
Communication function	Communication port	1 RS232 port, 1 RS485 port, 2 RJ45 ports
	Communication protocol	Standard Modbus ASCII/RTU communication, Ethernet IP, TCP / IP, UDP, OPC UA, free format protocol, CAN communication
Bus function		EtherCAT bus control (max 32 nodes)
Programming method		ST, SFC, FBD, CFC, LD and IL
Main processor		Cortex-A8, dominant frequency 1GHz
User program capacity		32MB
Data capacity		32MB (including power off holding 6MB)

Basic Unit 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 gas
Ambient temperature	0℃~55℃
Ambient humidity	5%RH~95%RH (no condensation)
Installation	Directly mounted on the guide rail
Grounding	The third kind of grounding (not common grounding with strong current system)

Power supply specification

DC power supply

Item	Specification
Rated voltage	DC24V
Allowable voltage range	DC21.6V~26.4V
Rated power	120mA DC24V
Allowable instantaneous power off time	10ms DC24V
Impact current	10A DC26.4V
Max power consumption	15W (16 points) / 30W (24 points and up)
Power supply for sensor	24VDC±10% 16 points max 200mA, 32 points max 400mA

Input specification

NPN mode

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 response time	About 10ms
Input signal format	Contactor input or NPN open collector transistor
Circuit insulation	Photoelectric coupling insulation
Input action display	LED lights when input is ON

PNP mode

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 response time	About 10ms
Input signal format	Contactor input or PNP open collector transistor
Circuit insulation	Photoelectric coupling insulation
Input action display	LED lights when input is ON

Differential mode

Item	Specification
Input signal	5V differential signal
Input max frequency	1MHz
Circuit insulation	Photoelectric coupling insulation
Input action display	LED lights when input is ON

Note: XL5/XL5E/XLME series 64 points models don't have input ON/OFF current. Their input ON voltage is below 9V, and input OFF voltage is above 19V.

Output specification

Relay output

External power supply		Below AC250V, DC30V
Circuit insulation		Mechanical insulation
Action indicator		LED light
Max load	Resistive load	3A
	Inductive load	80VA
	Lamp load	100W
Min load		DC5V 10mA
Response time	OFF→ON	10ms
	ON→OFF	10ms

Transistor output

External power supply		DC5~30 V
Circuit insulation		Optocoupler insulation
Action indicator		LED light
Max load	Resistive load	0.3A
	Inductive load	7.2W/DC24V
	Lamp load	1.5W/DC24V
Min load		DC5V 2mA
Open circuit leakage current		Below 0.1mA
Response time	OFF→ON	Below 0.2ms
	ON→OFF	Below 0.2ms

High speed pulse output

Model	T	T4	T6	T10
High speed pulse output terminal	Y0~Y1	Y0~Y3	Y0~Y5	Y0~Y11
External power supply	Below DC5~30V			
Action indicator	LED light			
Max current	50mA			
Pulse max output frequency	100KHz			

Serial port (RS232/RS485) communication parameter specification

Item	Parameter
Communication mode	Half duplex
Baud rate	4800bps, 9600bps, 19200bps (default), 38400bps, 57600bps, 115200bps
Data type	Data bit: 5, 6, 7, 8 (default), 9. Stop bit: 1 (default), 1.5, 2. Parity bit: none, odd, even (default)
Mode	RTU (default), ASCII, free format
Station no.	1~255 (default 1)
Delay before sending	1~100ms (default 3ms)
Reply timeout	1~1000ms (default 300ms)
Retry count	1~20 times (default 3 times)