YUANSHIN

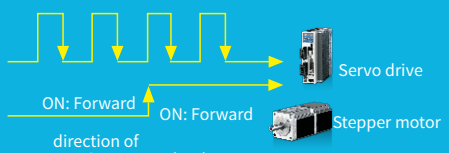
NEW!

YL10 SERIES PLC

YI10 series PLC is a miniature high-performance general-purpose PLC with compact structure and powerful functions. It has data processing, analog processing, network communication functions, high-speed counting and pulse output positioning control functions, and also has floating-point arithmetic and write EEPROM instruction ect. features.

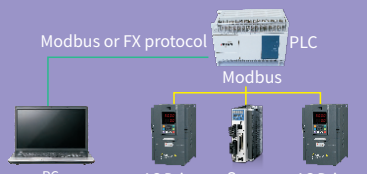
◆ High-speed pulse output up to 100K

- With 2 independent ways, support high-speed pulse output up to 100K PWM, Support trapezoidal acceleration and deceleration Support for positioning instruction.



◆ Support MODBUS protocol

- All standard MODBUS RTU MASTER/SLAVE
- Communication with AC drives



◆ Interrupt function

- External interrupt, definite timer interrupt, timer interrupt,Can do some special operations in the interrupt:
  - X0~X5, 6 inputs can be used as external interrupts
  - Three independent definite timer interrupts
  - Six independent software timer interrupts

◆ Rich software devices

- Definite timer: 256 pts
- Auxiliary relay: 3072 pts
- Counter: 256 bits
- Data register: 8000 pts
- Status register: 1000 pts

◆ Rich extension functions

- Support for extended IO modules, analog expansion modules
- Support communication expansion module, temperature expansion module
- Supports up to 8 expansion modules (except IO modules)

◆ Powerful programming ability

- Rich PLC instruction set, compatible with other brand instruction sets
- Support offline simulation, online simulation debugging
- Support user program encryption to protect intellectual property rights

◆ Real time clock

- Support RTC clock, keep it after power down

◆ High speed counting function

- Single phase counting: 2*50KHz,4*10KHz;
  Two-phase counting: 1*25KHz, 2*5KHz
  (Support 4 times frequency counting)

◆ High speed mathematical operation

- Basic instruction, 0.1 μs/instruction
- Application instruction, 1 μs/instruction

Specification

item		YL10-30MT	YL10-40MT
Run mode		Cyclic scan + interrupt mode	
Programming mode		Instruction list, ladder diagram, function block	
Type of instruction	Basic instruction	27	
	Application instruction	136	
Execution instruction	Basic instruction	0.1μs	
	Application instruction	1μs~10μs	
Program capacity		2K	16K
X	External input relay	16 pts, octal	X0~X377, 256 pts, octal
Y	External input relay	X0~X15, 14 pts, octal	Y0~Y377, 256 pts, octal
M	Auxiliary relay	M0~M511, 512 pts; M8000~M8256, 256 pts, special purpose	M0~M3071, 3072 pts; M8000~M8255, 256 pts, special purpose
S	State relay	S0~S127, 128 pts, keep used; S0~S9, 10 pts, for initialization; S10~S19, 10 pts, origin return;	S0~S999, 1000 pts; S0~S9, used for initialization; S10~S19, 10 pts, origin return; S900~S999, 10 pts, signal alarm
T timer	100mS	T0~T31，32pts	T0~T199, 200 pts; T250~T255, 6 pts, cumulative type
	10mS	T32~T62，31pts	T200~T245，46 pts
	1mS	T63，1pts	T246~T249, 4 pts, cumulative type
C timer	16-bit up	C0~C31，32pts	C0~C199，200 pts
	32-bit up/down count	no	C200~C234，35 pts
	32-bit high speed counting	C235~C255，21pts	C235~C255，21 pts
D	Data register	D0~D255，256pts； D1000~D2999，2000pts, file-specific； D8000~D8255，256pts, special use.	D0~D7999, 8000pts; D8000~D8255, 256 pts, special use
V	Indexed address register	V0~V7，8pts, for indexing Indexed address register	
Z	Indexed address register	Z0~Z7，8pts, for indexing Indexed address register	
Pulse output		Y0~Y3, 4 independent 200kHz	
External input interrupt		X0~X5, 6 way (support upper and lower edges)	
High speed count interrupt		6	
Timed interrupt		3	
Power loss protection function		Fixed storage area	Full range save, M, S, D, C, T originals can be saved in segments
Storage medium		E^2PROM	
Digital filtering		X0~X7 provides software digital filtering	
Serial communication		3 serial ports, COM0 is RS232, COM1 is RS485 (optional), COM2 is RS232 (optional)	

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