

KNC-PLC-K205 - Series



FEATURES

- Four High-Speed Counters
- Multiple Pulse Train Outputs
- Relay and/or Transistor Outputs
- 26 Modes and Inputs of High-Speed Counters
- Multiple Communication Ports
- Rated Input voltage DC 24V
- 6 Direct Input, 6 Direct Output, and 4 Direct Input/Output



DESCRIPTION

The PLC-K205 series provides special I/O functions, a Micro USB (USB 2.0) programming port, 4 high-speed counters, 3 high-speed pulse outputs, two RS485 communication ports, integrated digital input and output channels, and more. The high speed counters come in 10 different operation modes, support a single-phase frequency up to 50 KHz, and a dual-phase (A/B phase) frequency up to 50 KHz. In the 10 different modes, each counter has its own inputs for clock, direction control, start and reset, and has a 32-bit present value. The built-in high-speed pulse outputs can reach a maximum frequency of 50 KHz, and support PWM. The free KincoBuilder software provides absolute and relative positioning, homing, jogging, and quick stop instructions. The PLC-K205 series is an ideal hub for data processing with field devices, such as temperature modules, servo drives, field busses and more.

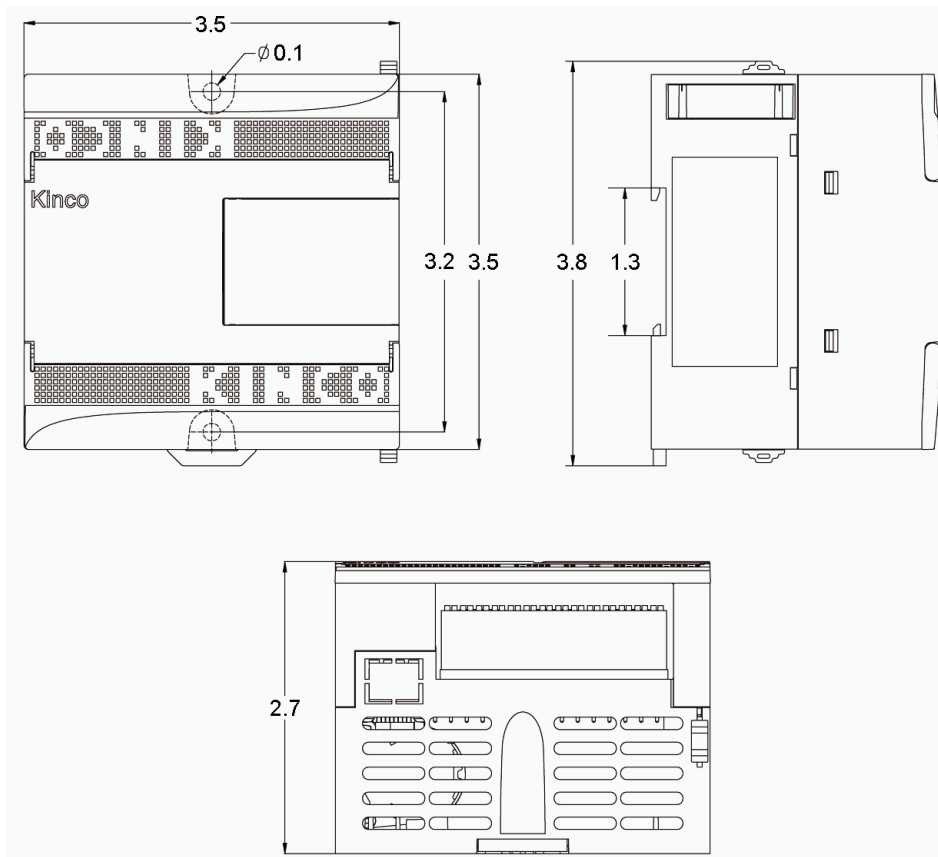
SPECIFICATIONS

Parameter	KNC-PLC-K205-16DR	KNC-PLC-K205-16DT
Input Points	16	16
Input Type	Sinking or Sourcing	
Input Voltage	Rated: 24 Vdc; Maximum: 30 Vdc	
Rated Input Current	3.5 mA @ 24 Vdc	
Max Input Voltage of Logic "0"	5V @ 7mA	
Minimum Input Voltage of Logic "1"	Common Channel: 11 Vdc @ 2.0 mA	
Input Delay • Off-to-On • On-to-Off	Normal Input: 15 µs; High-Speed Input: 10 µs Normal Input: 60 µs; High-Speed Input: 6 µs	
Isolation	Mode: Opto-Isolated Between Input and Internal Circuit Voltage: 500 Vac / 1 Min	
Signal Identification	Separate LED Indicators for Each Channel	
Module Width	70mm	70mm

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Parameter	KNC-PLC-K205-16DR	KNC-PLC-K205-16DT
Digital Channel	6 DI, 6 DO, 4 DIO	6 DI / 6 Relay / 4 DIO
Analog Channel	n/a	
Expansion Modules	n/a	
Programming Port	Micro USB 2.0	
Communication Port	2 RS485, PORT1 and PORT2, Max. Baudrate 115.2kbps. Port1 supports Modbus RTU protocol (as a slave or master), free-protocol communication mode, also can work as programming port. PORT2 supports Modbus RTU protocol (as a slave or master) and free-protocol communication mode.	
High Speed Counters Single Phase Two Phase	4 4, HSC0 and HSC1: Max.50KHz. HSC2 and HSC3: Max. 20KHz 4, HSC0 and HSC1: Max.50KHz. HSC2 and HSC3: Max. 10KHz	
High-Speed Pulse Output	3 Q0.0 and Q0.1: Max.50KHz (The resistor of load must be less than 1.5KΩ). Q0.4: Max.10KHz	
I/O Interrupts	4 Rising / Falling Edge Interrupts, I0.0-I0.3	
Memory Area		
Max. User Program	4K Instructions	
User Data	M area: 1K bytes; V area: 4K bytes	
DI Image Area	2 Bytes	
DO Image Area	2 Bytes	
AI Image Area	n/a	
AO Image Area	n/a	
Data Backup	E2PROM , 448 Bytes	
Retentive Ranges	4K Bytes, Lithium Cell as backup power, 3 years at normal temperature	
Others		
Timers	256 1ms time-base: 4 10ms time-base: 16 100ms time-base: 236	
Time Interrupts	2 with 0.1ms time-base	
Counters	256	
Real-Time Clock	Yes, deviation less than 3 min/month at 25°C	
Power Supply		
Rated Power Supply	DC24V. Note : USB port can be used as power supply.	

DIMENSIONS



WIRING DIAGRAMS

