

## FEATURES

- Four High-Speed Counters
- Multiple Pulse Train Outputs
- Transistor Outputs
- 26 Modes and Inputs of High-Speed Counters
- Multiple Communication Ports
- Rated Input voltage DC 24V
- 8 Discrete Input and 6 Discrete Output
- Ethernet Connected



## DESCRIPTION

The Programmable Logic Controller (PLC) is an industrial computer control system that will monitor the current state of input devices and make important decisions based upon a custom-tailored program to fully control the state of output devices. Practically every production line, machine function, or process can be improved vastly by using this control system. But, the largest benefit of using a PLC is the ability to change and replicate the operation or process while continuing to collect and communicate vitally important information. The PLC-K204 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, one Ethernet port, 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 200 KHz, and a dual-phase (A/B phase) frequency up to 200 KHz. In the 10 different modes, each counter has its own inputs for clock, direction control, start and reset, and has a 32-bit preset value. The built-in high-speed pulse outputs can reach a maximum frequency of 200 KHz, and support PWM. The free KincoBuilder software provides absolute and relative positioning, homing, jogging, and quick stop instructions. The PLC-K204 series is an ideal solution for monitoring inputs and triggering outputs based on the pre-programmed parameters for industrial automation systems.

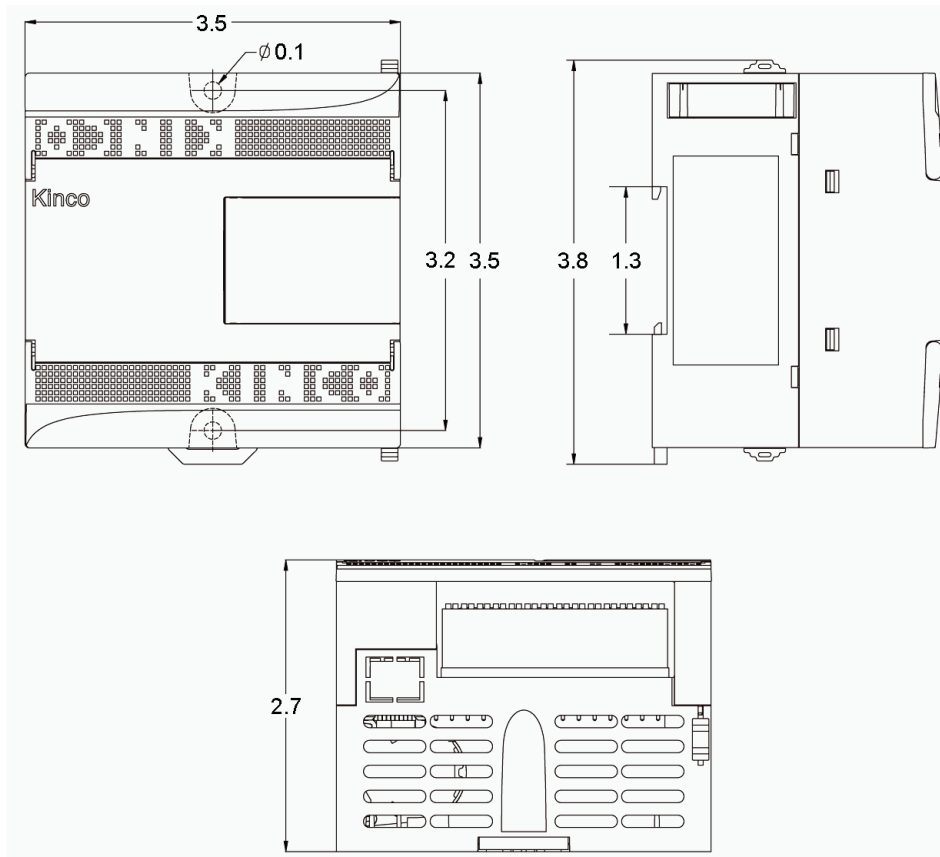
## SPECIFICATIONS

Parameter	KNC-PLC-K204ET-16DT
Input Points	8
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	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

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Parameter	KNC-PLC-K204ET-16DT
Digital Channel	8 DI / 6 DO
Output Type	Sourcing
Analog Channel	1 AI / 1 AO
Expansion Modules	n/a
Programming Port	Micro USB 2.0
Communication Port	2 RS485, PORT1 and PORT2, Max. Baudrate 115.2kbps. Port1 & Port2 supports Modbus RTU protocol (as a slave or master), free-protocol communication mode, also can work as programming port.
High Speed Counters Single Phase Two Phase	4 Max.200KHz. Max.200KHz.
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
<b>Memory Area</b>	
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
<b>Others</b>	
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
<b>Power Supply</b>	
Rated Power Supply	DC24V. Note : USB port can be used as power supply.

DIMENSIONS



WIRING DIAGRAMS

