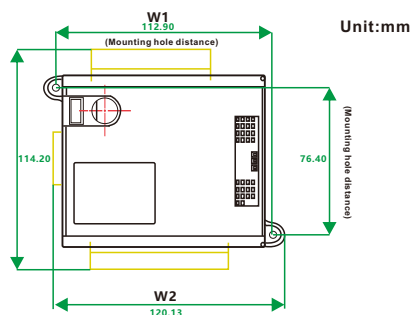


Energy efficient , beautiful environment

8 Installation Dimension

R3U-16M2* / R3U-24M2* / R3U-36M4*



Model	W1 Size (UNIT :MM)	W2 Size (UNIT :MM)	Weight (unit :Kg)
R3U-16M2T / R3U-16M2R	112.9	120.13	0.35
R3U-24M2T / R3U-24M2R	112.9	120.13	0.42
R3U-36M4T / R3U-36M4R	144.2	156.8	0.64

9 PLC Model specification

R3U series high performance programmable logic controller naming method:

R3U-36M4T

Product series: R3U series high performance programmable logic controller.

Input and output points and number of axes: There are 12,24,36 specifications.

Number of high-speed pulse outlets: M4 means there are 4 high-speed pulse outlets.

Output type: T stands for NPN transistor output type, R stands for relay output type, relay output type.

Model	Power Supply	Input / Output Points			Number of communication ports	Input form	Output form	Connection form
		Total Points	Input Points	Output Points				
R3U-16M2T	DC24V	16	8	8	3	DC24V (Leakage type / source type)	Transistor (source type)	terminal
R3U-16M2R	DC24V	16	8	8	3	DC24V (Leakage type / source type)	Relay	terminal
R3U-24M2T	DC24V	24	12	12	3	DC24V (Leakage type / source type)	Transistor (source type)	Pluggable terminal
R3U-24M2R	DC24V	24	12	12	3	DC24V (Leakage type / source type)	Relay	Pluggable terminal
R3U-36M4T	DC24V	36	20	16	3	DC24V (Leakage type / source type)	Transistor (source type)	Pluggable terminal
R3U-36M4R	DC24V	36	20	16	3	DC24V (Leakage type / source type)	Relay	Pluggable terminal



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R3U SERIES PLC

http://www.keasyautomation.com


1 R3U-16M2T

Model	Main Specification
	With 8 inputs and 8 output interfaces
	Can be used to control 4-axis servo/stepper motor, the highest output frequency Y0, Y1 is 200KHZ, Y2, Y3 is 10KHZ. And S-type trajectory planning function, the motor runs more smoothly.
	Input and output adopts a 7.62mm double-layer terminal. Each output has a 0.5A drive capability
	Built in two communication interfaces: in addition to the programming interface, there is a RS422 interface which can be directly connected to the touch screen and an Rs485 interface which can be used as the master-slave interface
	2-channel pulse high-speed input (multiplexed with X0-X1), up to 500KHZ, can receive external encoder input, or can be set to 2 high-speed input signal capture
	F4 series floating point, 210DMIPS 32-bit processor of DSP instruction of Swiss ST company
	With absolute positioning, relative positioning, zero return, trapezoidal and S-shaped trajectory planning.
	DC 24V Input


2 R3U-24M2T

Model	Main Specification
	With 12 inputs and 12 output interfaces
	8 differential pulse plus direction output, can be used to control 4-axis servo/stepper motor, the highest output frequency Y0, Y1 is 200KHZ, Y2, Y3 is 10KHZ. And S-type trajectory planning function, the motor runs more smoothly
	Input and output are detachable double-layer terminals. Each output has a 0.5A drive capability
	Built in two communication interfaces: in addition to the programming interface, there is a RS422 interface which can be directly connected to the touch screen and an Rs485 interface which can be used as the master-slave
	2-channel pulse high-speed input (multiplexed with X0-X1), up to 500KHZ, can receive external encoder input, or can be set to 2 high-speed input signal capture
	F4 series floating point, 210DMIPS 32-bit processor of DSP instruction of Swiss ST company
	With absolute positioning, relative positioning, zero return, trapezoidal and S-shaped trajectory planning
	DC 24V Input

3 R3U-36M4T

Model	Main Specification
	With 20 inputs, 16 output interfaces, and real-time clock function, MODBUS master-slave communication function
	4-way high-speed pulse output: It can be used to control 4-axis servo/stepper motor. highest output frequency Y0 Y1 are 200KHZ, Y2 and Y3 are 100KHZ. And S-type trajectory planning function, the motor runs more smoothly
	Input and output adopt detachable double-layer terminal. Each output has 0.5A driving capacity
	Built in two communication interfaces: in addition to the programming interface, there is a RS422 interface which can be directly connected to the touch screen and an Rs485 interface which can be used as the master-slave
	4-channel pulse high-speed input (multiplexed with X0-X3), up to 500KHZ, can receive external encoder input, or can be set to 2 high-speed input signal capture
	F4 series floating point, 210DMIPS 32-bit processor of DSP instruction of Swiss ST company
	With absolute positioning, relative positioning, zero return, trapezoidal and S-shaped trajectory planning
	DC 24V Input

4 IO Expansion Board: E3U-32

Model	Main Specification
	With 16 inputs, 16 output interfaces (transistors), the output has 0.5A high current output capability and short circuit protection.
	Input and output optocoupler isolation ; DC 24V input
	Multiple expansion boards can be cascaded, and the number is limited to 8

5 R3U Series PLC Performance Characteristics:

- In addition to the programming port, each host of the series has built-in 422 interface and 485 interface, in which 422 interface can be directly connected with the touch screen, 483 interface can communicate with the server, frequency converter, touch screen, step motor driver, etc. for Modbus master-slave or RTU ASCII communication.
- This series of main engines have 2-axis / 4-axis high-speed pulse and direction output ports. Among them, Y0, Y1 high-speed pulse output can be as high as 200kHz, Y2, Y3 high-speed pulse output can be as high as 100kHz, each host can be equipped with 4 servers or stepping motors.
- The frequency of high-speed pulse input port with hardware counting can be as high as 500KHz
- When using ddrva and ddrvi command, Y0 ~ Y4 pulse port automatically uses S-curve acceleration and deceleration, which can effectively slow down mechanical vibration and improve machining efficiency.

6 R3U Series PLC Technical Features:

- ★ ★ Compatible with most of fx-3u series instructions, directly using GX works2 for development
- ★ ★ In addition to the programming port, each host of the series has built-in 422 interface and 485 interface, in which 422 interface can be directly connected with the touch screen, 483 interface can communicate with servo drive, frequency inverter, touch screen, step motor driver, etc. for Modbus master-slave or RTU ASCII communication
- ★ ★ This series of main engines have 2-axis / 4-axis high-speed pulse and direction output ports. Among them, Y0, Y1 high-speed pulse output can be as high as 200kHz, Y2, Y3 high-speed pulse output can be as high as 100kHz, each host can be equipped with 4 servo Drive or stepper motors
- ★ ★ frequency of high-speed pulse input port with hardware counting can be as high as 500KHz
- ★ ★ When using DDRVA and DDRVI command, Y0~Y4 pulse port automatically uses S-curve acceleration and deceleration, which can effectively reduce mechanical vibration and improve machining efficiency
- ★ ★ Can customize customer-specific expansion modules and functions to protect customer business interests

7 Product Specification

General specification

Ambient Temperature	Use : -20~55°C , Storage : -40~70°C			
Relative Humidity	Use : 35~85%RH (No condensation)			
Earthquake Resistance	Conform to jisc0040 standard			
		Frequency	Acceleration	Vibration
	DIN rail mounting products	10~57Hz 57~150Hz	4.9m/s ²	0.035mm
	Direct installation products	10~57Hz 57~150Hz	9.8m/s ²	0.075mm
Impact Resistance	JISC0040 standard (147m/s ² , action time 11ms , sine half wave pulse in X, Y, Z three directions three times each)			
Resistance to noise	Noise voltage 1000Vp-p noise amplitude 1us rise 1ns frequency 30~100Hz noise simulation experiment			
Withstand Voltage	AC1500V(1 minutes)		Conform to JEM-1021 standard power terminal and connectionBetween ground terminals	
Insulation Impedance	DC500V insulation tester more than 5 m Ω			
Grounding	Third grounding (Do not share ground with high power system)			
Use environment	No corrosive, combustible gas, no large amount of conductive dust (dust)			

Electrical specifications

The DC power source type

Item	R3U-16M2*/R3U-24M2*/R3U-36M4*
Rated voltage	DC24V
Permissible voltage range	DC24V±10%
Max.Load	Below 30W (excluding external power supply of expansion module)