

- EtherCAT Bus Coupler
- 2 RJ45
- 24 VDC +/-20%
- EtherCAT In & EtherCAT Out
- Supports 16 Expansion Modules



The RP20C-ECT is a coupler module with EtherCAT protocol. The RP20 series products, with their robust industrial design and manufacturing quality, outstanding performance, and comprehensive feature integration, are not only widely applicable in the field of general industrial automation but also highly suitable for various specialized smart sectors such as building automation, agricultural intelligence, energy monitoring, and energy management. They are designed to offer customers versatile and flexible solution possibilities.

Parameter	RP20C-ECT			
Supply Power Rated Voltage	24VDC +/-20%			
Rated Power	2.5W(CPU Unit Only) / 20W(Full-Load)			
Rated Output Voltage of K-Bus	5VDC (4.75VDC~5.25VDC)			
Rated Output Current of K-Bus	2.0A (Typical Value@5V)			
Power Output Derating	At 55°C, the Output is Derated by 80% (output current should not exceed 2A).			
Power Protection	Overcurrent Protection Reverse Polarity Protection Surge Absorption			
Bus Protocol	EtherCAT			
Bus Interfaces	2 x RJ45			
EtherCAT Bus Communication Rate	100Mbps			
Maximum Distance Between Stations	100m			
K-Bus Communication Rate	100Mbps			
Refresh Mode	DC-Sync Mode: Minimum Sync-Time Time at 1ms FreeRun Mode SM-Sync Mode			
Indicators	PWR: Power Supply			
	RUN: Operating Status of the Expansion Bus			
	ERR: Error Status of the EtherCAT Bus			
	SF: Error Status of the Expansion Bus			
Expansion Capacity	Supports Connection of up to 16 RP20 Expansion Modules			
Dimensions (W x H x D)	24.3mm x 100mm x 80mm			
Weight	120g			
The K-Bus refers to the Expansion Bus Protocol for the KNC-PLC-RP20 Modules.				

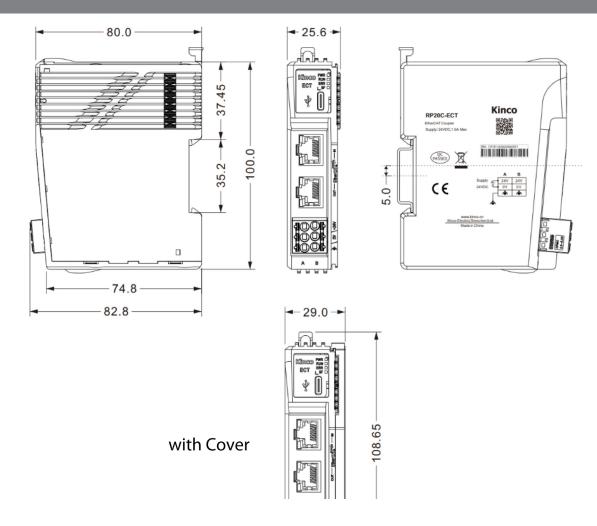
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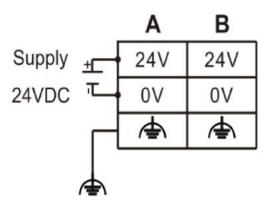


Operating Environment					
Climatic Conditions	Ambient Temperature	-40°C~+70°C			
	Relative Humidity	10%~95%, No Condensation			
	Atmospheric Pressure	Equivalent to 0-3000 Meters Above Sea Level			
Mechanical Conditions	Free Fall	With Transport Packaging, Allows 5 Drops from 1m Height to the Cement Floor			
Operating Conditions					
Climatic Conditions	Ambient Temperature	Open Device with Natural Ventilation, Ambient Temperature Range: -20°C~55°C			
	Relative Humidity	10%~95%, No Condensation			
	Atmospheric Pressure	Altitude ≤ 2000 Meters			
	Pollution Level	Suitable for Pollution Level 2			
Mechanical Conditions	Sine Vibration	5 < f, 8.4 Hz, Random: 3.5mm Displacement; Continuous: 1.75mm Displacement			
		8.4 < f < 150 Hz, Random: 1.0g Acceleration; Continuous: 0.5g Acceleration			
	Shock	Half Sine Wave, 15g, 11ms, 6 Times Per Axis			
	EMC Immunity Level	Zone B, IEC61131-2			
Electromagnetic Compatibility	Electrostatic Discharge	Air Discharge 8kV, Contact Discharge 4kV			
		Performance Level A			
	Surge	DC Power Supply 0.5kV CM, 0.5kV DM			
		I/O and Communication Ports: 1kV CM			
		Performance Level A			
	Fast Transient Burst	Power Coupling: 2kV, 5kHz.l/O and Communication Coupling: 1kV, 5kHz			
		Performance Level A			
Protection Level		IP20			
Cooling Type		Natural Air Cooling			
Installation Type		DIN35 Rail Mounting			
Certification		CE(ENIEC61000-6-2:2019)			

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Pin (RJ45)	Core Coloring	Signal	Description
1	Yellow	TD +	Transmission Data +
2	Orange	TD -	Transmission Data -
3	White	RD+	Receiver Data +
6	Blue	RD -	Receiver Data -

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