

KNC-PLC-RP20 Analog Modules



FEATURES

- 2 to 4 Analog Inputs
- 2 to 4 Analog Outputs
- 12 to 24-Bit Resolution
- 24 VDC



DESCRIPTION

The KNC-PLC-RP20 Analog Modules provides robust industrial design and manufacturing quality, outstanding performance, and comprehensive feature integration. The RP20 series 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. The RP20's are designed to offer customers versatile and flexible solution possibilities.

SPECIFICATIONS

Parameter	KNC-PLC-RP20-0202IV
	2 X AI, IV, 2 X AO, IV
Analog Input Specifications	
AI Channels	2
Resolution	12-Bit
Conversion Rate (per channel)	15 Times / Second
Signal	4-20mA, 0-20mA, 1-5V, 0-10V
Measurement Accuracy	0.3% F.S.
Input Impedance	Current Mode: 100Ω, Voltage Mode: 50KΩ
Indicators	Red LED Indicates Input Value Exceeds the Limit
Signal Limits	Current Input: Maximum 24mA, Voltage Input: Maximum 12V
Analog Output Specifications	
AO Channels	2
Resolution	12-Bit
Conversion Rate (per channel)	15 Times / Second
Signal	4-20mA, 0-20mA, 1-5V, 0-10V
Measurement Accuracy	0.3% F.S.
External Load	Current Mode: Maximum 500Ω, Voltage Mode: Minimum 1KΩ
Terminal Input Power Rated Voltage	24VDC (20.4VDC~28.8VDC)
Terminal Input Power Rated Current	80mA (Typical Value @ 24VDC)
General Specifications	
K-Bus Current Consumption	150mA (5VDC, Room Temperature)
Dimensions (W × H × D)	12mm x 100mm x 80 mm
Weight	0.15 lbs

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SPECIFICATIONS

Parameter	KNC-PLC-RP20-0400RD
	4 X AI, RTD
Technical Specifications	
AI Channels	4
Resolution	24-Bit
Sensor Type	Pt100, Pt1000, Cu50, Cu100
Wiring Method	Two-Wire or Three-Wire
Temperature Resolution	0.1°C
Measurement Accuracy	±0.2% F.S.
Conversion Rate (per channel)	1 Time / Second
Filtering Method	No Filtering / Averaging Filtering
Isolation	√
K-Bus Current Consumption	160mA (5VDC, Room Temperature)
Indicators	Red LED Indicates Input Value Exceeds the Limit
Dimensions (W × H × D)	12mm × 100mm × 80mm
Weight	0.149 lbs

Parameter	KNC-PLC-RP20-0400TC
	4 X AI, TC
Technical Specifications	
AI Channels	4
ADC Resolution	24-Bit
Sensor Type	J, K, E, S, T, 0-99mV
Wiring Method	Two-Wire
Temperature Resolution	0.1°C
Cold Junction Compensation	Internal Compensation, External Compensation
Measurement Accuracy	±0.2% F.S.
Conversion Rate (per channel)	1 Time / Second
Filtering Method	No Filtering / Averaging Filtering
Isolation	√
K-Bus Current Consumption	160mA (5VDC, Room Temperature)
Indicators	Red LED Indicates Input Value Exceeds the Limit
Dimensions (W × H × D)	12mm × 100mm × 80mm
Weight	0.149 lbs

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SPECIFICATIONS

Parameter	KNC-PLC-RP20-0400IV
	4 X AI, IV
Technical Specifications	
AI Channels	4
Resolution	16-Bit
Conversion Rate (per channel)	50 Times / Second
Signal	4-20mA, 0-20mA, 1-5V, $\pm 10V$, $\pm 20mA$
Measurement Accuracy	0.2% F.S.
Input Impedance	Current Mode: Maximum 100 Ω , Voltage Mode: Minimum 50K Ω
Signal Limits	Current Input: $\pm 30mA$, Voltage Input: $\pm 15V$
K-Bus Current Consumption	150mA (5VDC, Room Temperature)
Indicators	Red LED Indicates Input Value Exceeds the Limit
Dimensions (W x H x D)	12mm x 100mm x 80mm
Weight	0.15 lbs

Parameter	KNC-PLC-RP20-0004IV
	4 X AO, IV
Technical Specifications	
AO Channels	4
Resolution	16-Bit
Conversion Rate (per channel)	50 Times / Second
Signal	4-20mA, 0-20mA, 1-5V, $\pm 10V$
Measurement Accuracy	0.2% F.S.
External Load	Current Mode: Maximum 100 Ω , Voltage Mode: Minimum 50K Ω
Terminal Input Power Rated Voltage	24VDC (20.4VDC~28.8VDC)
Terminal Input Power Rated Current	80mA (Typical Value@24V)
K-Bus Current Consumption	150mA (5VDC, Room Temperature)
Indicators	None
Dimensions (W x H x D)	12mm x 100mm x 80mm
Weight	0.15 lbs

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KNC-PLC-RP20 Analog Modules



SPECIFICATIONS

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
Electromagnetic Compatibility	EMC Immunity Level	Zone B, IEC61131-2
	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. I/O and Communication Coupling: 1kV, 5kHz Performance Level A
Protection Level		IP20
Cooling Type		Natural Air Cooling
Installation Type		DIN35 Rail Mounting

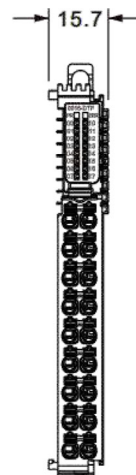
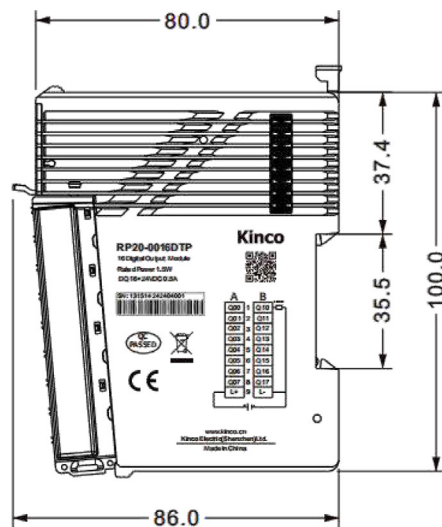
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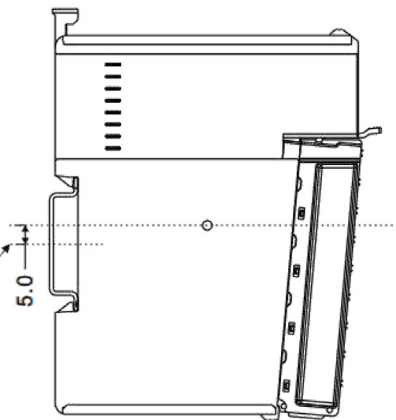


DIMENSIONS

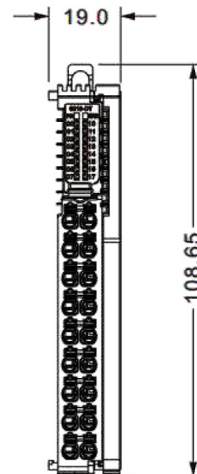
Module



DIN rail mounting position is 5mm below the center of the product



Module + Lid



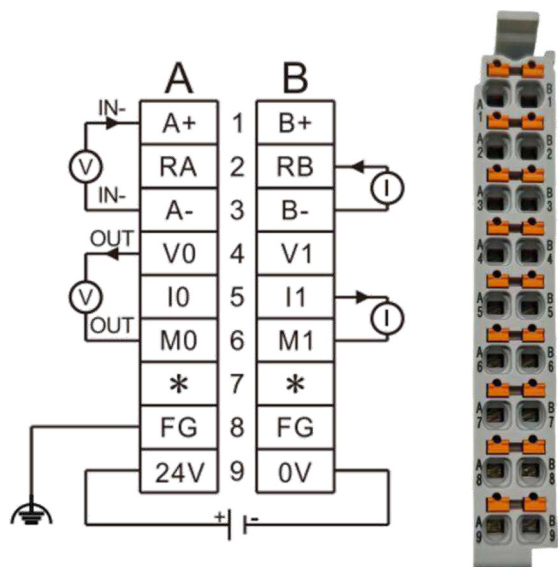
Units are in mm

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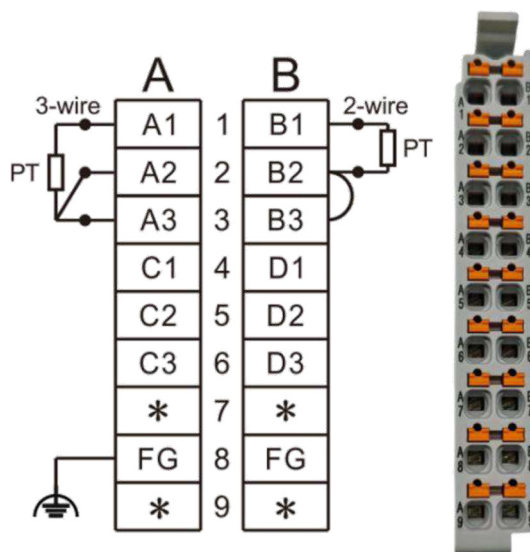
KNC-PLC-RP20 Analog Modules



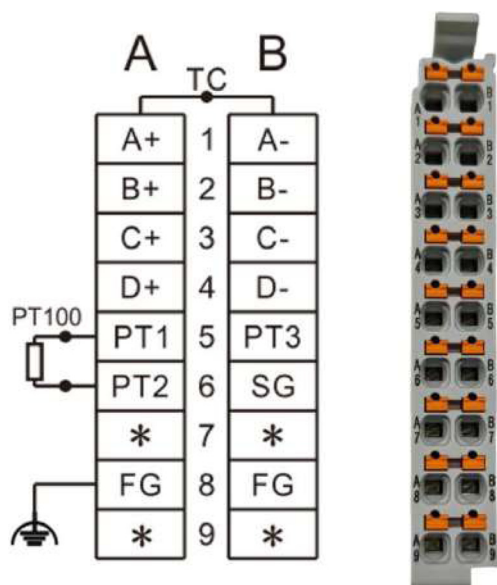
KNC-PLC-RP20-0202IV



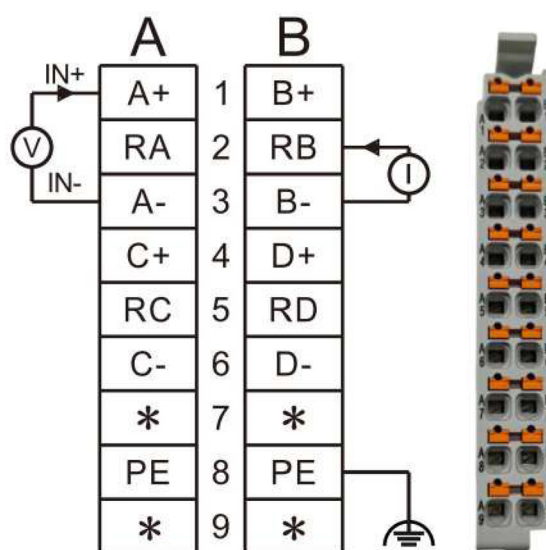
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KNC-PLC-RP20-0400TC



KNC-PLC-RP20-0400IV

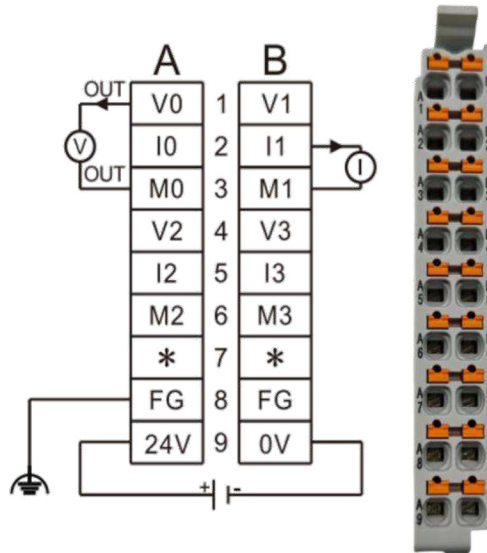


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WIRING DIAGRAMS

KNC-PLC-RP20-0004IV



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