

**DIN33** series three-phase AC voltage  
signal isolation transmitter

**Main features:**

- >>Accuracy level: Level 0.5.
- >>The product has been inspected and calibrated before leaving the factory, and users can use it directly.
- >>International standard signal input: 0~220VAC~500VAC optional.
- >>Output standard signals: 0-5V/0-10V/1-5V, 0-10mA/0-20mA/4-20mA, etc.
- >>Standard DIN rail installation.

**summary:**

The product developed by Weijunrui Technology can directly measure three AC voltages. The input is a three-phase three (four) wire AC voltage, and the measured signal range is 0~220~500VAC. The output signal can be a standard current signal or voltage signal, or customized according to user requirements. The three sets of output signals are completely independent, and users can use them on or off the ground; The auxiliary power supply can be +5V, +12V, +15V, and +24V; The product adopts the DIN35 international standard installation method; Small size, high reliability, beautiful appearance, single power supply, can be used directly, convenient and flexible. It can be widely used in fields such as power, communication, industrial control, security engineering, automatic control, chemical industry, petroleum, electroplating, etc.

**Product selection table:**

Example of product selection:

Example 1: Input: 0-220VAC                      Auxiliary power supply: 24V      Output: 4-20mA      Model: DIN11  
IAP-220VC-P1-A4

Example 2: Input: 0-500VAC                      Auxiliary power supply: 24V      Output: 0- ± 10V      Model: DIN11  
IAP-500VAC P1-V7

Example 3: Input: 0-100VAC

Auxiliary power supply: 24V      Output: 4-20mA      Model:      DIN11 IAP-100VAC P1-A4  
Example 4: Input: 0-100VAC      Auxiliary power supply: 24V      Output: 4-20mA      Model:      DIN11 IAP-110VAC P1-A4  
Example 5: Input: 0-230VAC      Auxiliary power supply: 24V      Output: 4-20mA      Model:      DIN11 IAP-230VAC P1-A4  
Example 6: Input: 0-300VAC      Auxiliary power supply: 24V      Output: 4-20mA      Model:      DIN11 IAP-300VAC P1-A4  
General parameters:

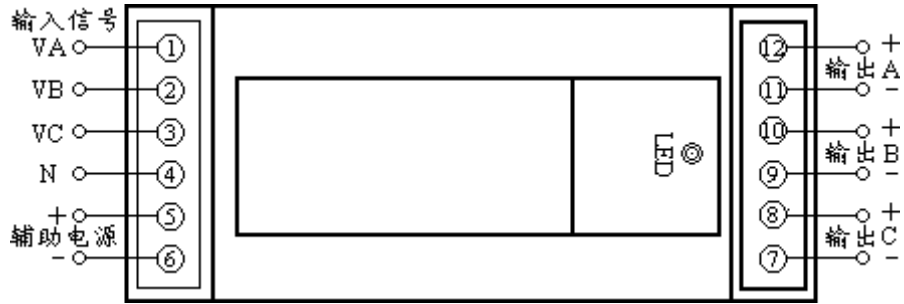
Parameter Name	Test conditions	parameter	Company	remarks
Accuracy level		zero point five	level	
Input Range		0~220~500	VAC	Choose freely
Isolation and voltage resistance	0.5mA/60S	two thousand and five hundred	VDC	
Load capacity	4~20mA output	<300	Ω	
	0-5V output	>2000	Ω	

Overload capacity	Terminal input	2 (Max<1000V)	times	
frequency response		25~5000	Hz	User selection
working temperature		-10 ~ +70°C	°C	
Storage temperature		-20 ~ +80°C	°C	
Temperature drift characteristics		<100	ppm/°C	
response time		<300	mS	

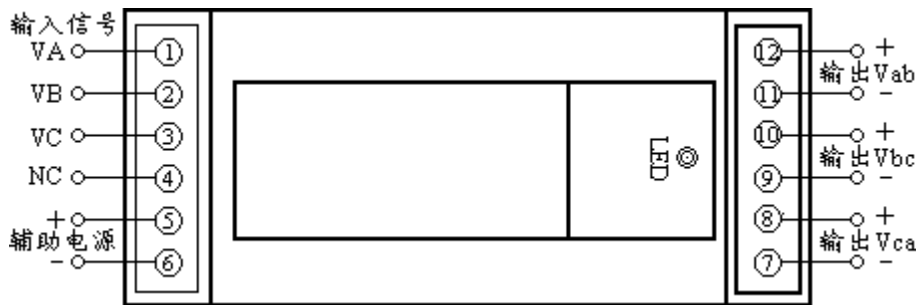
### Principle diagram

Pin definition:

Pin	name	describe	Pin	name	describe
one	VA	A-phase voltage input	seven	Voc-/Vab-	C-phase output negative terminal
two	VB	B-phase voltage input	eight	Voc+/Vab+	C-phase output positive terminal
three	VC	C-phase voltage input	nine	Vob-/Vbc-	B-phase output negative terminal
four	N/NC	Zero phase voltage input or empty pin	ten	Vob+/Vbc+	B-phase output positive terminal
five	Vcc	Positive end of power supply	eleven	Voac-/Vca-	A-phase output negative terminal
six	GND	Negative terminal of power supply	twelve	Voac+/Vca+	A-phase output positive terminal



Pin Definition Diagram (Three phase Four wire System)



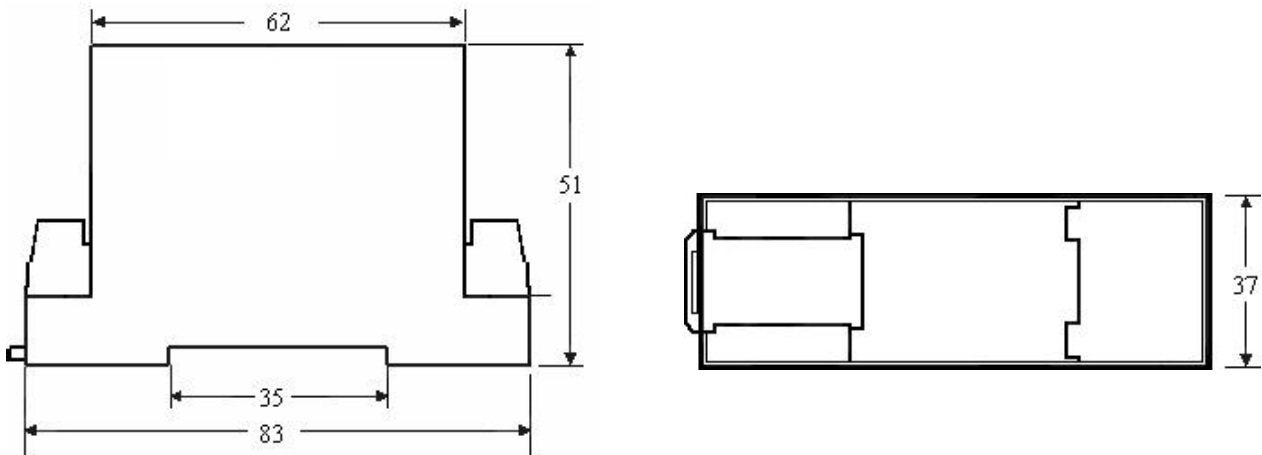
Pin Definition Diagram (Three Phase Three Wire System)

Note: The three sets of output signals are isolated and can be used in common or not in common

Dimensions: (Unit: **mm**)

Product appearance

front view, product bottom top view



Can be installed on standard DIN35 rails

### **matters needing attention:**

1. Before use, carefully check and confirm the quantity, model, and specifications of the product according to the packing list and product label.
2. When using, it is necessary to follow the wiring reference diagram corresponding to the selected product model, correctly connect the signal input, output, and power lines, check for errors, and then connect the power and signal.
3. When measuring signals directly with probes, please tighten the terminals.
4. The usage environment should be free of conductive dust and corrosive gases that can damage insulation and metals.
5. When installing centrally, the installation spacing should be  $\geq 10\text{mm}$ .
6. The product has been calibrated before leaving the factory, please do not adjust it arbitrarily. If on-site calibration is necessary, please contact our company.
7. The product is an integrated structure that cannot be disassembled, and collision and falling should be avoided. This product comes with a 2-year warranty, during which our company provides free maintenance or replacement. Any label on the product that is intentionally damaged, altered, or torn off will not be returned or exchanged.
8. There is no lightning protection circuit installed inside the product. When the input and output feeders of the product are exposed to harsh outdoor weather conditions, please take lightning protection measures.
9. Product specifications may be updated without prior notice.

guarantee:

Within two years from the date of sale, if the user complies with the storage, transportation, and usage requirements and the product quality is lower than the technical specifications, it can be returned to the factory for free

repair. If damage is caused due to violation of operating regulations and requirements, device fees and maintenance fees shall be paid.

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