Electronic Buzzer

KZ-90N Series

■ Features

- Polyphonic buzzer with a maximum volume of 90 Phons.
- 4 types of sound.
  Suitable for complicated alarm systems.
- Volume can be easily adjusted to the desired level.
- Excellent sound quality with the high quality speaker.
- Various power supply types are available for the annunciator of control panel.
- Because this is an electronic system buzzer, long life is assured, and will not generate surge voltage.

NOTICE

- A breakdown voltage examination and the insulation resistance examination connect all three terminals of the power supply terminal.
  Do not be connected to the control terminal on this occasion.
- Use M4 type screws and washers with a diameter less than 10mm to guarantee withstand voltage.
- Because the control terminal is a logic level, use twisted pair wires when wiring switches and contacts.
- Because full/half-wave rectification cannot be used under the DC power supply voltage, use a power supply with a ripple of 10% or less.

■ Model Designation

KZ-90N **125DC** **(volt)**

Voltage

24V DC
48V DC, 100/110V DC, 125V DC (dual voltage)
100/110V AC, 200/220V AC (dual voltage)

■ Specifications

Rated Voltage	100/110V AC dual	200/220V AC dual	24V DC	48V DC	100/110V DC dual	125V DC
Voltage Allowance (90~110% of rated voltage)	90~121V AC	180~242V AC	21.6~26.4V DC	43.2~52.8V DC	90~110V DC	112.5~137.5V DC
	Confirm that the ripple percentage is less than 10%					
Volume	Maximum volume is 90dB(C) beyond a distance of 1m					
Volume Adjustment	Adjustable					
Power Consumption	5VA: 100, 200V 6VA: 110, 220V		2.4W	4.8W	11W	12.5W
Withstand Voltage	2000V AC for 1 minute (between power supply terminal and metal case)					
Insulation resistance	100MΩ or more between grouped power supply terminal and metal case measured by 500V DC megohmmeter					
Operating Environment	Temperature: -20~+50°C, Humidity: 45~85%RH (No freezing or condensation)					
Weight Noise	Impuls 1 μ sec ± 1600V (between a power supply terminal and metal case) Impuls 1 μ sec ± 1000V (between an operation terminal and metal case)					

• Power consumption in the long silence is 20-30% of the maximum electric power consumption in the case of DC, And it is 60-70% of the maximum electric power consumption in the case of AC.

■ Materials

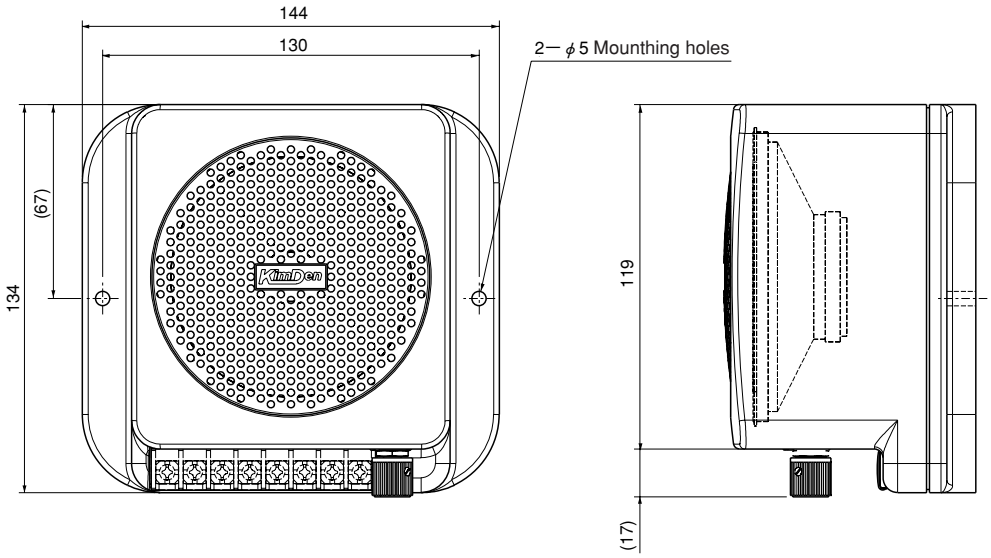
Terminal Block	TS-135
Terminal Screw	Carbon steel (nickel plated) M3×6 redommended torque: 0.6 ~ 0.9 N·m
Terminal Block Cover	Polycarbonate resin (transparent)
Case	ABS resin Color: Black

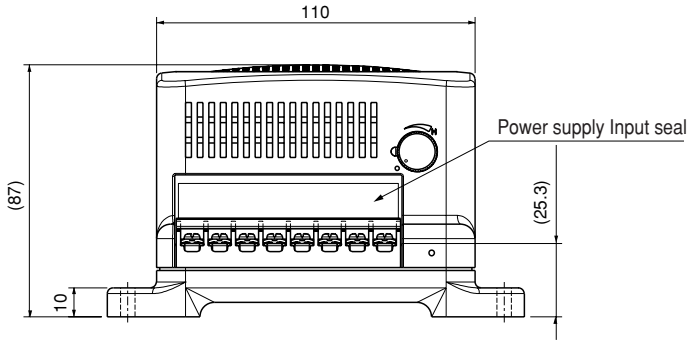
■ Weight

24V DC : 400g
48V DC, 100/110V DC, 125V DC : 500g
100/110AC, 200/220V AC : 600g

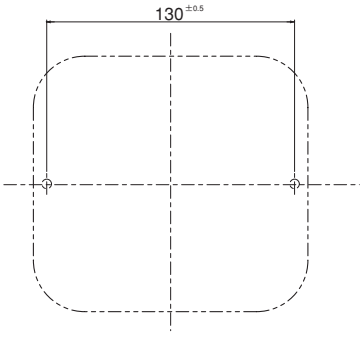
KZ-90N

■ Dimensions





Panel Cut Dimensions



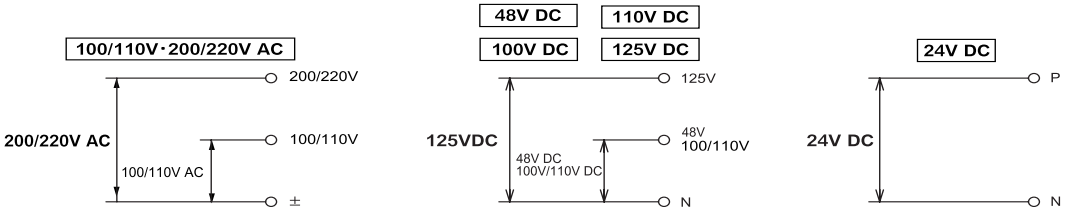
Power supply Input seal

	KZ−90N	LOT:
AC 200V AC 220V	± N A B C D	
	KZ−90N	LOT:
DC 125V DC 100V 110V	N N A B C D	
※	KZ−90N	LOT:
DC48V P	N N A B C D	
	KZ−90N	LOT:
P DC24V	N N A B C D	

※Production on orders

■ Wiring

For AC specifications, wire the power supply between 100/110V and 200/220V.
For DC specifications, wire the power supply between 100/110/125V DC and N.
For 24V DC and 48V DC specifications, wire the power supply between P and N.



■ Connections for Control Terminals

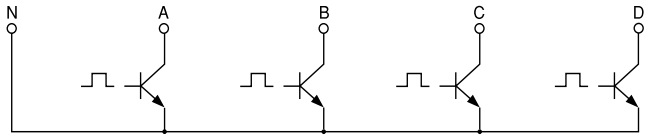
Because the control terminal is a logic level, use twisted pair wires when wiring switches and contacts. To make short-circuit N with other terminals, lead wires, dry contact, or an open collector can be used to short circuit N. Use twisted pair wires with a long wiring distance. Collector current should be 1mA ±0.2mA. It is possible to short circuit a specific terminal with a power supply ON/OFF.

■ Sound

Sounds can be adjusted by short circuiting each terminal (A to D) with N (see figure on the right).
The following terminals will be selected in case of simultaneous input.

A + B = A A + C = A A + D = A
B + C = A B + D = B C + D = C

When there are 3 or more simultaneous input, sound A will always be selected.



4 Tones are available

Tone	Alarm Frequency (Hz)	Modulation Cycle (m sec)
A	1100 ±15% to 880 ±15%	100 ±15%
B	625 ±15% to 500 ±15%	100 ±15%
C	1100 ±15% to 880 ±15%	500 ±15%
D	625 ±15% to 500 ±15%	500 ±15%