Autonics

Piezoelectric buzzer

B2PB-B1D

INSTRUCTION MANUAL



Thank you for choosing our Autonics product. Please read the following safety considerations before use.

Safety Considerations

XPlease observe all safety considerations for safe and proper product operation to avoid hazards.

XSafety considera ions are categorized as follows.

⚠Warning Failure to follow these instructions may result in serious injury or death.

▲Caution Failure to follow these instructions may result in personal injury or product damage.

XThe symbols used on the product and instruction manual represent the following ⚠ symbol represents caution due to special circumstances in which hazards may occur.

1. Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime/ disaster prevention devices, etc.)

Failure to follow this instruction may result in personal injury, fire, or economic loss.

- 2. Power must be insulated DC voltage.
- Failure to follow this instruction may result in electric shock.
- 3. Do not disassemble or modify this unit. Please contact us if it is required. Failure to follow this instruction may result in electric shock or fire.
- Do not use this unit close to ears.

Failure to follow this instruction may result in injury.

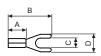
△ Caution

- 1. This unit shall not be used outdoors.
- Failure to follow this instruction may result in shortening the life cycle of the product or electric shock.
- 2. Please observe the rated specifications.
- Failure to follow this instruction may result in shortening the life cycle of the product or electric shock.
- 3. Please observe the rated power supply and do not supply AC power to the DC type product. Failure to follow this instruction may result in damage to the product.
- 4. In cleaning the unit, do not use water or organic solvent. And use dry cloth. Failure to follow this instruction may result in electric shock or fire.
- 5. Do not use this unit where there are flammable or explosive gas, humidity, direct ray the sun, radiant heat, vibration, impact etc.

Failure to follow this instruction may result in damage to the product or malfunction.

Terminal Specification





↓	A	∪ ‡ □	
	С	D	Appli

	Α	В	С	D	Applicable wires
Forked	Min. 4.1	Max. 16.0	Min. 3.0	Max. 5 9	AWG 22-16
Round	Min. 4.1	Max. 16.0	Min. 3.0	Max. 5 9	(0.30~1.25mm ²)

- ▼The above specifications are subject to change and some models may be discontinued. without notice.
- ★ Be sure to follow cautions written in the instruction manual and the technical descriptions

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Specifications

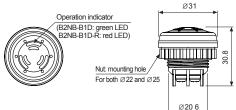
Model		B2PB-B1D	B2PB-B1D-R	
Power supply		12-24VDC ±10%		
Current consumption		Max. 25mA		
Sound pressure		98 ±8dB (distance 0.1m) ^{×1}		
Sound frequency		Approx. 2.5kHz		
Sound type ^{x2}		Continuous sound, intermittent sound		
Mounting hole		For both Ø22 and Ø25		
Operation indicator		Green LED	Red LED	
Insulation resistance		Over 1,000MΩ (at 500VDC megger)		
Dielectric strength		500VAC 50/60Hz for 1 minute (between all terminals and case)		
Vibration	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 1 hour		
VIDIAUOII	Malfunction	0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 min		
Shock	Mechanical	500m/s²(50G) in X, Y, Z directions for 3 times		
Shock	Malfunction	147m/s²(15G) in X, Y, Z directions for 3 times		
Environ	Ambient temp.	-15 to 55°C, storage: -25 to 65°C		
ment	Ambient humi.	35 to 85%RH, storage: 35 to 85%RH		
Protection		IP65 (front, IEC standard)		
Material		Cap: polycarbonate, body: polyamide 6		
Tightening torque		0.4 to 0 6N·m		
Approval		CE		
Weight ^{**3}		Approx. 305g (approx. 18g)		

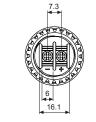
X1: t is for power supply 24VDC. (Sound pressure may be decreased for using 12VDC.)

*2: To operate with continous sound (beep-----), connect the power in the right direction. To operate with intermittent sound (beep-, beep-), connect the power in the reverse direction.

※3: The weight is for 10 units including packaging, the weight in parenthesis is for a single unit. *Environment resistance is rated at no freezing or condensation.

Dimensions



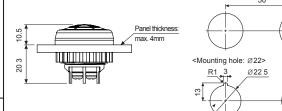


(unit: mm)

Ø25 5

. Mounting on the panel

 Panel cut-out <Mounting hole: Ø25>



Connections

(unit: mm)

•For continuous sound



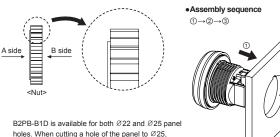
•For intermittent sound



Operation

P					
	Power in the right direction (continuous sound)	Power in the reverse direction (intermittent sound)			
Power supply	ON	ON			
	OFF	OFF			
Buzzer	ON	ON DOMESTIC			
sound	OFF	OFF			
Operation indicator (green/red LED)	ON	ON _			
	OFF	OFF			

Panel Mounting



holes. When cutting a hole of the panel to \emptyset 25, the A side should be on the panel. When cutting a hole of the panel to \varnothing 22, the B side should be on the panel

Cautions during Use

- 1. Use this unit within the rated temperature and humidity.
- 2. Do not tighten the nut with excessive force.
- 3. Maintain voltage fluctuations in the power supply within specified range.
- 4. Use AWG16(1 25mm²) wire and applicable crimp terminals to the terminal block.
- 5. Do not use this unit at below places.
- ①Place where there is severe vibration or impact
- @Place where strong alkalis or acids are used
- 3 Place where there are direct ray of the sun
- 6. This unit may be used in the following environments.
- ①Indoors
- ②Altitude max. 2.000m
- ③Pollution Degree 2
- 4 Installation Category II

%Failure to follow these instructions may result in product damage.

Major Products

- Photoelectric Sensors Temperature Controllers
- Fiber Optic Sensors Temperature/Humidity Transducers
- SSRs/Power Controllers ■ Door Sensors
- Door Side Sensors Counters ■ Area Sensors ■ Timers
- Proximity Sensors Panel Meters
- Pressure Sensors Tachometers/Pulse(Rate)Meters
- Rotary Encoders Display Units
- Connectors/Sockets Sensor Controllers
- Switching Mode Power Supplies
- Control Switches/Lamps/Buzzers
- I/O Terminal Blocks & Cables
- Stepper Motors/Drivers/Motion Controllers
- Graphic/Logic Panels
- Field Network Devices
- Laser Marking System(Fiber, CO₂, Nd:YAG)
- Laser Welding/Cutting System

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