

Magnetic Buzzers

B2NB Series

INSTRUCTION MANUAL

TCD210170AA

Autonics

Thank you for choosing our Autonics product.

Read and understand the instruction manual and manual thoroughly before using the product.

For your safety, read and follow the below safety considerations before using. For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

Keep this instruction manual in a place where you can find easily.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Follow Autonics website for the latest information.

Safety Considerations

- Observe all 'Safety Considerations' for safe and proper operation to avoid hazards.
- ⚠ symbol indicates caution due to special circumstances in which hazards may occur.

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

- 01. 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, economic loss or fire.
- 02. Do not use the unit in the place where flammable/explosive/corrosive gas, high humidity, direct sunlight, radiant heat, vibration, impact, or salinity may be present.**
Failure to follow this instruction may result in explosion or fire.
- 03. Do not disassemble or modify the unit.**
Failure to follow this instruction may result in fire.
- 04. Do not connect, repair, or inspect the unit while connected to a power source.**
Failure to follow this instruction may result in fire.
- 05. Check 'Connections' before wiring.**
Failure to follow this instruction may result in fire.
- 06. Do not use this unit close to ears.**
Failure to follow this instruction may result in injury.

⚠ Caution Failure to follow instructions may result in injury or product damage.

- 01. 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.
- 02. Use the unit within the rated specifications.**
Failure to follow this instruction may result in fire or product damage.
- 03. Use a dry cloth to clean the unit, and do not use water or organic solvent.**
Failure to follow this instruction may result in fire.
- 04. Do not supply power without load.**
Failure to follow this instruction may result in fire or product damage.

Cautions during Use

- Use this unit within the rated temperature and humidity.
- Do not tighten the nut with excessive force.
- Maintain voltage fluctuations in the power supply within specified range.
- Do not use this unit at below places.
 - Place where there is severe vibration or impact
 - Place where strong alkalis or acids are used
 - Place where there are direct ray of the sun
 - Place where strong magnetic field or electric noise are generated
- This unit may be used in the following environments.
 - Indoors (in the environment condition rated in 'Specifications')
 - Altitude max. 2,000 m
 - Pollution degree 2
 - Installation Category II

Specifications

Model	B2NB-B1D	B2NB-B1D-R
Power supply	12 - 24 VDC≐	
Power consumption	≤ 1.5 W	
Sound pressure	≈ 87±10 dB (distance: 0.1 m) ⁰¹⁾	
Sound type	Continuous sound, intermittent sound ⁰²⁾	
Mounting hole	Ø 22/25 mm compatible	
Operation indicator	Green	Red
Insulation resistance	≥ 50 MΩ (500 VDC≐ megger)	
Dielectric strength	1,000 VAC~ 50/60 Hz for 1 minute (between all terminals and case)	
Vibration	0.75 mm amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 1 hour	
Shock	500 m/s ² (≈ 50 G) in each X, Y, Z direction for 3 times	
Ambient temperature	-15 to 55 °C, storage: -25 to 65 °C (no freezing or condensation)	
Ambient humidity	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)	
Protection structure	IP30 (front)	
Material	Body: PA6, Cap: PC	
Tightening torque	0.4 to 0.6 N m	
Approval	CE ENEC	
Unit weight (packaged) ⁰³⁾	≈ 14 g (≈ 214 g)	

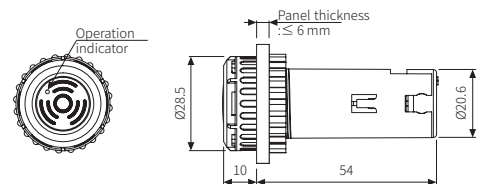
01) It is rated at power supply 24 VDC≐. (sound pressure may be decreased when using 12 VDC≐.)

02) Jumper pin attached: intermittent sound (beep - beep -), Jumper pin removed: continuous sound (beep ---)

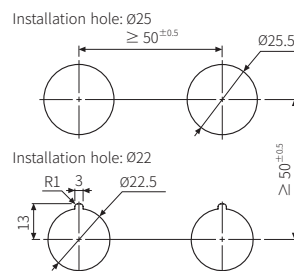
03) It is weight per product. The weight in parentheses is for 10 packing units including packing materials.

Dimensions

- Unit: mm, For the detailed drawings, follow the Autonics website.



■ Panel cut-out



Setting Buzzer Type

- Remove the bottom cover from the buzzer.
- Jumper pin attached: intermittent sound (beep-, beep-)
jumper pin removed: continuous sound (beep ---).
- Remove the jumper pin using a flat-head (-) screwdriver.