Buzzer (Cylindrical 16-dia.)

Buzzer Unit Series with Cylindrical 22-mm \times 16-dia. Body

• Lineup includes standard-volume models (80 phons, constant) and high-volume models (70 to 95 phons, variable). Intermittent or continuous sound can be selected.



٨	Refer to "Safety Precautions for All Pushbutton Switches/
<u> </u>	Refer to "Safety Precautions for All Pushbutton Switches/ Indicators" and "Safety Precautions" on page 5.

List of Models

Buzzer

Appearance	Model
Rectangular standard-volume model	
	M2BJ-B
Rectangular high-volume model	
	M2BJ-BH

Ordering Information

Appearance			Standar	High sound *1			
w/jumper direction A *2		Intermittent	Intermittent (short)	Intermittent (high-pitched)	Intermittent (short, high-pitched)	Intermittent (high-pitched)	Intermittent (short)
w/jumper direction B *2 (w/o jumper)		Continuous	Intermittent (long)	Continuous (high-pitched)	Intermittent (long, high-pitched)	Continuous	Intermittent (long)
Supply voltage							
6 VAC/VDC		M2BJ-B06	M2BJ-B06A	M2BJ-B06B	M2BJ-B06C	M2BJ-BH06D	M2BJ-BH06E
12 to 24 VAC/VDC	Model	M2BJ-B24	M2BJ-B24A	M2BJ-B24B	M2BJ-B24C	M2BJ-BH24D	M2BJ-BH24E
12 to 24 VDC		M2BJ-B24-D		M2BJ-B24B-D		M2BJ-BH24D-D	M2BJ-BH24E-D

*1. High-sound models incorporate an LED, which lights when the Buzzer sounds.
*2. Refer to "Short-circuiting Jumper (M2BJ-BTH)" on page 5 for the insert direction of the jumper.

External Signal Selection Model

(M2BJ-BH24D-DA)

• An external signal selection model is also available. With this model, it is possible to switch between continuous and intermittent sound using an external signal instead of the jumper.

M2BJ-BH24D-DA



Note: 1. Ensure that voltage is not applied simultaneously between terminals 1, 2, and 3.

2. Check the power supply polarity. Connecting with the polarity reversed may result in damage.

Specifications

Buzzer

	Model	Standard-sound Models					
Item		M2BJ-B06	M2BJ-B06A	M2BJ-B06B	M2BJ-B06C		
Operating voltage		6 VAC/VDC					
Sound pressure (at 0.1 m and ra	ated voltage)	Continuous sound: 80 dB (phons) min.					
Driving frequency			2±0.5 kHz	4±0.5 kHz			
Intervals		190 times/minute±10%	*2 Long:55 times/minute±10%	190 times/minute±10%	*4 Long:55 times/minute±10%		
		190 times/minute±10%	*1 Short:700 times/minute±10%	190 times/minute±10%	*3 Short:700 times/minute±10%		
Current	DC	7	mA max.	20 mA max.			
consumption	AC	20 mA max.					
Inrush current		1 A max.					
Life expectancy		1,000 hours min.					
Insulation resistance		100 MΩ min. (between ground and current-carrying parts)					
Dielectric strength		1,000 VAC for 1 minute (between grounds)					
Ambient operating tempe	erature	-10°C to 55°C (no icing or condensation)					
Ambient operating humic	dity	35% to 85%RH					
Ambient storage tempera	ature	-25°C to 65°C (no icing or condensation)					
Degree of protection		IP 40					
Weight		Approx. 9 g					

	Model	Standard-sound Models					
Item		M2BJ -B24	M2BJ-B24A	M2BJ -B24B	M2BJ-B24C	M2BJ-B24-D	M2BJ-B24B-D
Operating voltage			12 to 24 VAC/VDC			12 to 24 VDC	
Sound pressure (at 0.1 m and ra	ated voltage)			Continuous	s sound: 80 dB (phons) min.		
Driving frequency			2±0.5 kHz		4±0.5 kHz	2±0.5 kHz	4±0.5 kHz
Intervals		190 times/	*2 Long:55 times/minute±10%	190 times/ *4 Long:55 times/minute±10%		190 times/minute±10%	
Intervals		minute±10%	*1 Short:700 times/minute±10%	minute±10%	*3 Short:700 times/minute±10%	190 times/i	IIIIIute±10%
Current	DC		7 mA max.	20 mA max.		7 mA max.	20 mA max.
consumption	AC		20	20 mA			
Inrush current		1 A max.					
Life expectancy		1,000 hours min.					
Insulation resistance		100 M Ω min. (between ground and current-carrying parts)					
Dielectric strength		1,000 VAC for 1 minute (between grounds)					
Ambient operating tempe	erature	-10°C to 55°C (no icing or condensation)					
Ambient operating humic	dity	35% to 85%RH					
Ambient storage temperature		-25°C to 65°C (no icing or condensation)					
Degree of protection		IP 40					
Weight		Approx. 9 g					

	High-sound Models							
Item		M2BJ-BH06D	M2BJ-BH24D	M2BJ-BH06E	M2BJ-BH24E	M2BJ-BH24D-D	M2BJ-BH24E-D	
Operating voltage		6 VAC/VDC	12 to 24 VAC/VDC	DC 6 VAC/VDC 12 to 24 VAC/VDC 12 to 24 VDC			4 VDC	
Sound pressure (The sound pressure can be adjusted. The figure for sound pressure given above is for measurement at a distance of 0.1 m at the rated voltage.)		70 to 95 dB (phons)						
Driving frequency		3±0.5 kHz						
Intervals	Intervale		Approx. 190 times/min.		*6 Long: Approx. 55 times/min.		*6 Long: Approx.55 times/min.	
Intervals		Approx. 190 times/min.		*5 Short: Approx. 70	0 times/min.	Approx.190 times/min.	*5 Short: Approx.700 times/min.	
Current	DC				50 mA max.			
consumption	AC		10	0 mA max.		-	-	
Inrush current		1 A max					-	
Life expectancy		1,000 hours min.						
Insulation resistance		100 M Ω min. (between ground and current-carrying parts)						
Dielectric strength		1,000 VAC for 1 minute (between grounds)						
Ambient operating temperature		-10°C to 55°C (no icing or condensation)						
Ambient operating humidity		35% to 85%RH						
Ambient storage temperature		-25°C to 65°C (no icing or condensation)						
Degree of protection		IP 40						
Weight		Approx. 12 g						

*Tone

*1		High volume	Bird cry	
*2	Standard	r ligh volume	Telephone busy signal	
*3	volume	Continuous (high pitch)	Short beeps	
*4		Continuous (nigh phon)	Long beeps	
*5	High volume	Intermittent	Alternating high-low pitch	
*6	Thigh volume	Internittent	Long beeps	

M2BJ

(Unit: mm)

Dimensions



Contact Form



Safety Precautions

Refer to Safety Precautions for All Pushbutton Switches/Indicators.

Precautions for Correct Use

Application Precautions

- When power is supplied, there is an inrush current of up to 1 A. Confirm that this will not adversely affect operation or damage any devices before using the M2BJ in application. There is no inrush current with DC-only models (M2BJ-□□-D).
- With models that can use both AC and DC, residual energy in the internal capacitor may cause residual sound.

Wiring

- Perform soldering promptly and correctly at a temperature of 350°C within 3 seconds.Wait for one minute after soldering before exerting any external force on the solder.
- If flux is required, use non-corrosive rosin liquid. Ensure that the flux does not penetrate the inside of the case.
- In order to improve the reliability of the soldering and to prevent pattern burnout, loop the wire through the terminal hole before soldering.
- In order to fit the terminal holes, use lead wires with a nominal cross sectional area of 0.25 mm² max.

Operating Environment

• Do not use the Buzzer in environments where foreign substances may enter the sound outlet. Otherwise, the Buzzer may not sound.

Volume Adjustment Mechanism (M2BJ-BH Only)

- Adjust the volume by turning the control knob on the face of the Buzzer using a screwdriver. Turn to the right to increase the volume and turn to the left to decrease the volume.
- Turn the control knob with a torque of 0.98 to 2.94 mN·m.



Short-circuiting Jumper (M2BJ-BTH)

- The Buzzer sounds continuously or intermittently depending on how the short-circuiting bracket is attached to the case guide. When the bracket is attached with the triangle on it facing direction A (PC board side), the Buzzer sounds intermittently.
- To produce continuous sounds, attach the bracket to the case guide so that the triangle on the bracket faces direction B.
- The bracket is set in direction A when ship the product. If the bracket becomes lost, contact your OMRON representative. The model number to order is M2BJ-BTH.



Short-circuit Bracket Mounting Location



Read and Understand This Catalog

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