

ø16 UZ6 Series Miniature Buzzer

Miniature Electronic Buzzer for mounting in ø16 mm Mounting Hole

- Same size and terminal alignment as AP6M series miniature pilot lights.
- Sounds can be adjusted from approximately 30 to 600 cycles per minute using the optional sound adapter.
- The sound adapter can be snapped on to the rear part of the buzzer unit.



Specifications

Buzzer Unit

Insulation Voltage	60V DC
Rated Voltage	12V DC, 24V DC
Voltage Range	12V DC $\pm 10\%$, 24V DC $\pm 10\%$
Current Draw	24 mA
Sound Pressure (at 0.1m)	Steady sound: 75dB (at the rated voltage)
Sound Frequency	3.5 kHz ± 800 Hz
Operating Temperature	-20 to +50°C (no freezing)
Storage Temperature	-25 to +80°C (no freezing)
Operating Humidity	45 to 85% RH (no condensation)
Insulation Resistance	100 M Ω minimum (500V DC megger)
Dielectric Strength	Between live and dead parts: 1,000V AC, 1 minute
Degree of Protection	IP40 (IEC 60529)
Terminal Style	Solder terminal
Applicable Wire	$\phi 1$ or 0.75 mm ² max.
Cap Color	Blue
Weight (approx.)	6.5g

Ratings / Cyclical Sound Adapter

Rated Voltage	12/24V DC
Voltage Range	12/24V DC $\pm 10\%$
Current Draw	30 mA (when installed on the buzzer unit)
Cyclical Sound	30 to 600 cycles per minute (period: 0.1 to 2 sec) ON/OFF time ratio 1:1
Applicable Buzzer Unit	12V DC, 24V DC buzzers (UZ6-11, UZ6-12)
Terminal Screw	M3
Applicable Wire	1.25 mm ² max.
Weight (approx.)	13.5g

Buzzer Unit (continuous sound)

Shape	Terminal Style	Operating Voltage	Part No.	Package Quantity
	Solder	12V DC $\pm 10\%$	UZ6-11	1
		24V DC $\pm 10\%$	UZ6-12	1

Cyclical Sound Adapter

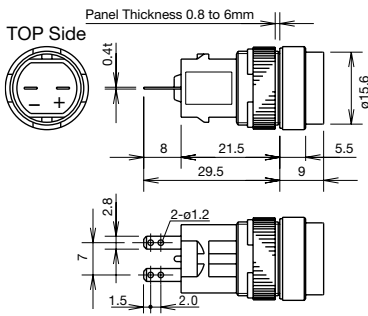
Shape	Terminal Style	Operating Voltage	Part No.	Package Quantity
	Screw	12V/24V DC $\pm 10\%$	UZ6-F10	1

Accessories

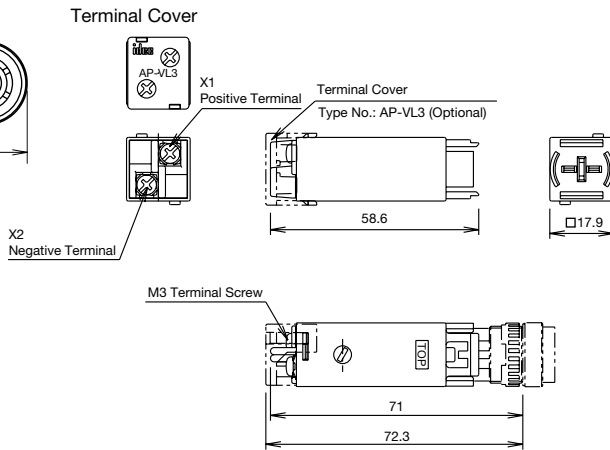
Shape	Specification	Part No.	Remarks
	Nickel-plated brass	MT-001	Used to tighten the locking ring when installing a UZ6 buzzer onto a panel.
	Stainless steel	MT-100	Used to remove the cyclical sound adapter from the buzzer. The cyclical sound adapter can be removed by using the tip of the tool as shown in the left photo.
	For cyclical sound adapter	AP-VL3	

Dimensions

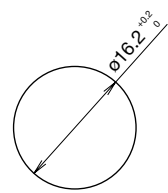
Buzzer Unit



Cyclical Sound Adapter



Panel Cut-out



Safety Precautions

• Turn off power to the buzzer before installation, removal, wiring, maintenance, and inspection. Failure to turn off may cause electrical shocks or fire hazard.

• For wiring, use wires of a proper size to meet the voltage and current requirements. Tighten the M3 screw terminal of the cyclical sound adapter to a torque of 0.6 to 1.0 N·m. Improper soldering or failure to tighten the terminal screw may cause overheating and fire.

Instructions

Notes on Panel Mounting

Use an optional locking ring wrench to mount the unit onto a panel. Tightening torque should not exceed 0.88 N·m. Do not use pliers. Do not tighten with excessive force, otherwise the locking ring will be damaged.

Power Supply Noise

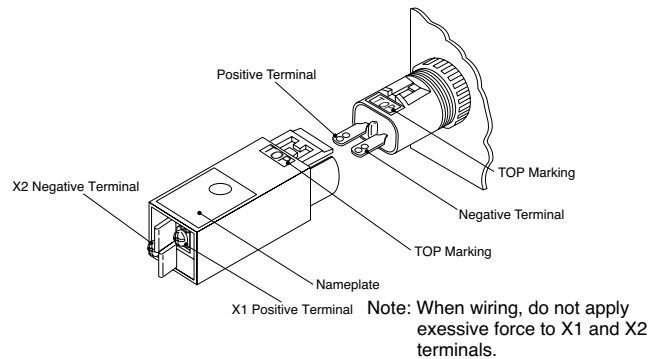
When the buzzer is used where power noise might occur, use a noise suppressor element to prevent noise interference.

Cyclical Sound Adjustment

Pierce the round mark on the nameplate on top of the cyclical sound adapter with a flat screwdriver and adjust the variable resistor inside. Turn clockwise for longer cyclical sounds and counterclockwise for shorter cyclical sounds.

Notes on Installing the Cyclical Sound Adapter

1. The cyclical sound adapter can be used on 12V and 24V DC buzzer units (UZ6-11, UZ6-12).
2. Mount the buzzer unit on the panel before installing the cyclical sound adapter on the panel. The buzzer unit cannot be mounted with the cyclical sound adapter installed.
3. When installing the cyclical sound adapter, make sure that the TOP marking on the cyclical sound adapter is on the same side as the TOP marking on the buzzer unit and press in.



Wiring

Solder the terminal at 350°C within 3 seconds using a 60W soldering iron. SnAgCu type lead-free solder is recommended. When soldering, do not touch the buzzer unit housing with the terminal. Do not bend the terminal or apply excessive force to the terminal.

IDEC CORPORATION

Head Office

6-64, Nishi-Miyahara-2-Chome, Yodogawa-ku, Osaka 532-0004, Japan

USA	IDEC Corporation	Tel: +1-408-747-0550	opencontact@idec.com
Germany	APEM GmbH	Tel: +49-40-25 30 54 - 0	service@eu.idec.com
Singapore	IDEC Izumi Asia Pte. Ltd.	Tel: +65-6746-1155	info@sg.idec.com
Thailand	IDEC Asia (Thailand) Co., Ltd	Tel: +66-2-392-9765	sales@th.idec.com
Australia	IDEC Australia Pty. Ltd.	Tel: +61-3-8523-5900	sales@au.idec.com
Taiwan	IDEC Taiwan Corporation	Tel: +886-2-2577-6938	service@tw.idec.com

Hong Kong	IDEC Izumi (H.K.) Co., Ltd.	Tel: +852-2803-8989	info@hk.idec.com
China/Shanghai	IDEC (Shanghai) Corporation	Tel: +86-21-6135-1515	idec@cn.idec.com
China/Shenzhen	IDEC (Shenzhen) Corporation	Tel: +86-755-8356-2977	idec@cn.idec.com
China/Beijing	IDEC (Beijing) Corporation	Tel: +86-10-6581-6131	idec@cn.idec.com
Japan	IDEC Corporation	Tel: +81-6-6398-2527	marketing@idec.co.jp

 www.idec.com