

BZ1-BZ6 Buzzer Cum Flasher

Technical Datasheet | LED Industrial Audio-Visual Alarm & Indicator

Product Category	Low-Voltage Control Circuit Devices
Equipment Description	22.5 mm LED Industrial Buzzer Cum Flasher
Product Series	BZ1-BZ6

Product Overview

The BZ1-BZ6 Buzzer Cum Flasher is an integrated acoustic and optical signaling device designed for real-time fault annunciation in low-voltage switchgear, control panels and automation desks. It combines an audible buzzer and a flashing LED indication in a compact panel-mount design, providing dual-mode signaling for applications requiring both sound and visual indication.

The device is designed for a 22.5 mm panel cutout and is suitable for installation in electrical control panels, distribution boards, control desks and mimic panels. The specified voltage options, acoustic output, LED flash characteristics and environmental parameters are listed below.

Mechanical Dimensions

Parameter	Specification
Panel Cutout Diameter	22.5 mm
Front Bezel Diameter	29.5 mm
Protrusion Depth (Front)	13.0 mm
Depth Behind Panel	51.0 mm

Electrical Specifications

Parameter	Specification
Available Operating Voltages	12-24V AC/DC, 24V DC, 230V AC, 110V AC, 110V DC
Voltage Tolerance	±10% of rated operational voltage
Rated Current	≤ 20 mA at rated operational values
Dielectric Strength	2.0 kV AC for 1 minute between terminal and housing

Acoustic & Optical Performance

Parameter	Specification
Sound Level Output	≥ 95 dB at 1.0 metre distance
Acoustic Characteristic	Pulsating / intermittent tone (~3.0 kHz frequency)
Optical Type	High-luminance cluster LED array
Flash Frequency	60 to 120 flashes per minute (1 Hz to 2 Hz)

Environmental & Construction Specifications

Parameter	Specification
Degree of Protection	IP54 (front bezel when mounted with gasket); IP20 (rear terminals)

Parameter	Specification
Ambient Operating Temperature	-20°C to +60°C
Humidity	Non-condensing humidity ≤ 90%
Housing Material / Flammability	UL94-V0 fire-retardant PBT

Typical Application Areas

Low-voltage switchgear and control panels

Electrical control panels

Automation desks and automation panels

Distribution boards

Control desks

Mimic panels

Fault and trip indication applications

Machinery warning and alarm indication

Standards & Compliance

Parameter	Specification
IEC 60947-5-1	Low-voltage switchgear and control gear – Control circuit devices.
IEC 60529	Degrees of protection provided by enclosures (IP Code).
IEC 61000-6-2 / 6-4	Electromagnetic Compatibility (EMC) Immunity & Emission Standards.
CE / RoHS	Certified Lead-Free & Hazardous Substance Compliant.

Key Product Characteristics

Integrated audible and flashing LED indication in one panel-mounted device

22.5 mm panel cutout with compact front and rear dimensions

Multiple specified AC/DC operating voltage configurations

Sound output of ≥95 dB at 1 metre

High-luminance cluster LED array

Specified front IP54 protection when mounted with gasket and IP20 rear terminal protection

Operating temperature range of -20°C to +60°C

UL94-V0 fire-retardant PBT housing