PRODUCT CATALOGUE

Explosion-Proof Audible and Visual Alarm

Model: BBJ-III | Shenhai Explosion-Proof Technology



180 dB **Sound level (Type III)**	**10 W** **LED warning light**	**IP66** **Ingress protection**
150/min **Flash frequency**	**AC / DC** **Multiple voltage options**	**Zone 1 / 2** **Hazardous gas areas***

Product overview

The BBJ-III is an explosion-proof audible and visual alarm designed to provide combined sound and red LED warning signals in hazardous industrial locations. The unit combines a high-strength glass light cover, an audible alarm assembly and a robust metal enclosure.

Typical application areas include oil and gas facilities, refineries, chemical plants, offshore installations, tankers and other industrial sites where hazardous-area signalling is required.

*Always verify the exact equipment marking, gas/dust group, temperature class and installation conditions against the nameplate and project hazardous-area classification before installation.

Technical Data

Manufacturer-published specifications for the BBJ series; BBJ-III corresponds to the Type III sound-output variant.

Electrical & performance parameters

Parameter	Specification
Model	BBJ-III (Type III)
Explosion-protection marking	Ex db ib IIC T6 Gb; Ex ib tb IIIC T80°C Db
Light source	Red LED
Light power	10 W (warning light source, as stated on product page)
Flash frequency	150 flashes/min
Sound intensity	180 dB (Type III; manufacturer table)
Rated voltage options	AC: 220 V, 36 V, 24 V, 12 V DC: 36 V, 24 V, 12 V
Ingress protection	IP66
Cable outer diameter	Ø10–Ø14 mm
Cable entry thread	G3/4″
Corrosion resistance	WF1 / WF2* (confirm selected configuration)
Weight	3.36 kg (Type III, manufacturer table)

Construction & product features

- Die-cast aluminium-alloy housing with electrostatic powder-coating finish.
- High-strength tempered-glass lampshade.
- High-brightness red LED warning light.
- Stainless-steel exposed fasteners.
- Steel-tube cable routing.
- The manufacturer states that disconnecting the internal buzzer wiring allows the unit to be used as a warning light only.

Applicable areas & standards

The manufacturer lists use in Zone 1 and Zone 2 gas atmospheres, and Zone 21 and Zone 22 dust atmospheres, subject to the certified marking and installation requirements. The product page also lists gas groups IIA, IIB and IIC, dust groups IIIA/IIIB/IIIC, and temperature classes T1–T6.

Listed implementation standards: GB/T 3836.1, GB/T 3836.2, GB/T 3836.3, GB/T 3836.4, GB/T 3836.31, IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-11 and IEC 60079-31.

Installation & Selection Notes

Product appearance and mounting details



Selection checklist

1. Confirm the hazardous-area zone and the required gas or dust group.
2. Match the equipment protection marking and temperature class to the site classification.
3. Select the correct supply voltage (AC or DC) before ordering.
4. Confirm the cable outer diameter and G3/4″ cable-entry interface.
5. Confirm whether WF1 or WF2 corrosion resistance is required for the installation environment.
6. Verify the exact sound-output variant and physical dimensions from the approved technical drawing.

Important technical note

The manufacturer’s webpage and downloadable series datasheet contain some series-level information and variant-dependent values. This catalogue identifies the BBJ-III as Type III (180 dB, 3.36 kg) and retains the product-page marking and IP66 rating. Final procurement and installation must be based on the nameplate, current manufacturer datasheet and applicable local regulations.

Source & further information

Manufacturer product page: shenhai-ex.com – BBJ-III product page
Manufacturer technical datasheet: BBJ series technical PDF

Product information compiled from the manufacturer’s public product page and technical datasheet. Images of the physical unit in this catalogue were supplied by the customer.