



Cranford Controls' range of EN54 - Part 23 Beacons and Sounder Beacon

The new Cranford Controls VAD (Visual Alarm Device) range complies with the new EN54-23 standard for Visual Alarm Devices (VAD's).

BS 5839-1:2013 states that under normal circumstances, an audible alarm device, such as a bell or electronic sounder, should be used as the primary method of indicating a fire alarm condition. However, there are certain circumstances where the audible alarm should be supplemented with a visual signalling device. The new legislation requires these visual alarms to be EN54:23 compliant.

Examples of where visual alarms may be needed:

- As a means of warning those with a hearing impairment.
- Sleeping and sanitary accommodation.
- Areas where people with a hearing impairment are likely to be working alone.
- Areas of high ambient noise level or where ear protection is required.
- Buildings in which the initial warning of fire may be restricted to staff (e.g. certain public assembly buildings).
- Broadcasting studios where an audible alarm would cause interruption to live broadcasts.
- Hospital operating theatres where an audible alarm may interrupt operating procedures.
- As the 1st Stage visual alarm in gaseous extinguishing systems as recommended by BS 7273-1.



Features and benefits:

- Aesthetic design, based on the 'well proven' Vantage sounder (VTG) sounder/beacon VTB and beacon (VXB) products allowing for a familiar appearance to all devices installed on site.
- Base options include a shallow base for internal installations and a deep base variant for enhanced IP rating, to suit a wide range of installation applications.
- Electrically and mechanically inter-changeable with existing Cranford sounders, sounder/beacons and beacon products, allowing up-grade opportunities for existing systems.
- Designed for both wall mounted installations, **W-2.4-8** and ceiling mounted installations **C-3-8** to EN54-23:2010.
- Features high power, highly efficient LED technology and specially designed lens to maximise the efficient use of the light output generated to reduce current consumption.
- A powerful microprocessor helps manage the current consumption and in-rush current when using the DIL switches to select room coverage and beacon flash rate of either 0.5Hz or 1 Hz.
- White or red flash products available to help meet the demands of national installation standards.
- Sounder/LED beacon version with 32 tone and volume selection provides the system installer with both choice and flexibility, helping to reduce installation costs.
- Fully synchronised flash to prevent photo epilepsy, which can be a significant Health and Safety issue. The synchronised flash also helps to create a uniform visual alarm in large open areas.

* Legal and Standards requirements for Visual Alarm Devices (VADs):

- Equalities Act (previously Disabilities Discrimination Act, DDA)
- Regulatory Reform (Fire Safety) Order 2005
- Part M of the Buildings Regulations
- Recommendations within BS 5839-1:2013
- Recommendations within BS 8300:2009+A1:2010
- EN54-23:2010 for product requirements and performance standard

Specifications

Part No.	VXB-1EVAD W & C SB/DB-RB/WB-WF/RF	VTB-32EVAD W & C SB/DB-RB/WB-WF/RF
Sound output (typical at 1m)	-	99dBA
Number of tones & Volume setting using the 8-way DIL switch	-	32 tone selection 3 volume settings
Minimum illumination	>0.4Lux With white & red flash colour options	
Current Consumption @ 24Vdc:	15-30mA for VXBC & 25-40mA for VTBC Dependent on the DIL setting and coverage	
Voltage Range:	18 - 30Vdc	
Flash Rate	0.5Hz and 1Hz selectable using the DIL switch settings	
Coverage area	Wall W-2.4-8 Ceiling C-3-8 Reduced room size coverage selectable via DIL switch. W-2.4-4 & C-3-4	
Temperature Range:	- 20°C to + 70°C	
IP Rating:	IP43 (SB) & IP65 (DB)	IP43 (SB) & IP65 (DB)
Body colour available	Red or white	
Weight (per unit packed):	164g	193g

