



- Low cost combined visual/audible warning as standard
- Corrosion resistant marine grade alloy construction ATEX certified for hazardous areas
- Three independent xenon tubes with 30 Joules
- Exchangeable coloured fresnel optic lens
- Design eliminates external junction boxes

The PSC VODEC VB3 is an ATEX/IECEx certified visual warning (alarm) device designed to produce regular pulses of high intensity light. The unit is specified for use in the most demanding of applications (which include offshore oil installations and refineries) and provides reliable service in extremes of climate. A robust alloy enclosure resists corrosion risk and will not support organic growths associated with plastic Ex d enclosures.

The enclosure is designed without spigot threaded joint which eliminates seizures and eases maintenance. VB3 has no moving parts and is based upon Xenon gas discharge tube technology, three tubes are fitted each with dedicated firing electronics to ensure highest integrity. Beacon colour is fixed by use of a specifically developed fresnel optic lens which provides both efficient light dispersion and simple field changeable colour assignment. A range of fresnel lens colours are available to assure compliance with worldwide regulations. It should be noted that the connection to the telephone subscriber line is via high integrity optical isolator which eliminates any possible risk of insulation breakdown between high tension flashing beacon electronics and the telephone system. VB3 is also fitted with a high power alarm tone drive output to serve an external explosion proof projector horn. A range of alarm tone signals are generated internally and are user selectable by integral tamper proof switches. External junction boxes are eliminated in all applications of VB3 by provision of up to four M20 gland entries and sufficient discrete terminals to allow cable loop through and connection of all cable screens where fitted.

**Explosion protection**

ATEX marking	II 2G Ex d IIB T3
Certification	Baseefa09ATEX0322
IECEx marking	Ex d IIB T3 Gb
Certification	IECEx BAS 13.0006
Ambient temperature	-40 °C to +60 °C

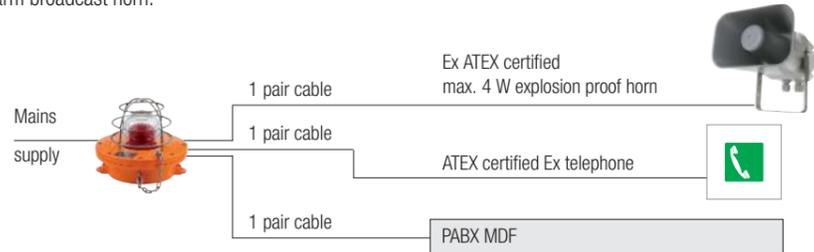
**Technical data**

Supply input	DC 24 V to 140 V AC 110/120 V or AC 220/240 V 50/60 Hz
Power consumption	max. 60 W
Protection class	IP66
Telephone ring voltage	18 to 60 V RMS
Telephone line loading	REN 1
Combined flash energy	30 Joules
Flash rate	2 or 4 per second
Dimensions (width x depth)	250 mm x 300 mm (9.84 inch 11.81 inch)
Weight	7 kg (15.4 lbs)
Gland entry	up to 4 x M20
Operating temperature range	-40 °C to +60 °C (-40 °F to +140 °F)
Enclosure colour	orange RAL 2003 special colours are available



**Combined audible/visual warning system (telephone activated)**

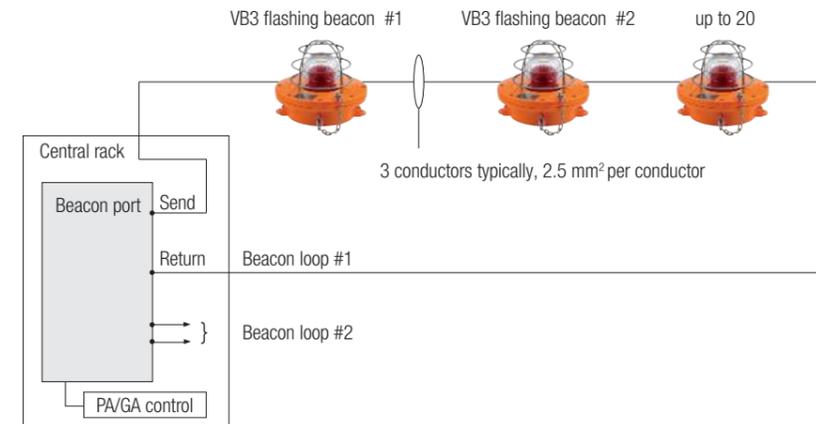
The VB3 beacon incorporates telephone detector as standard which can be arranged to also drive a supplementary alarm broadcast horn.



**Application diagrams**

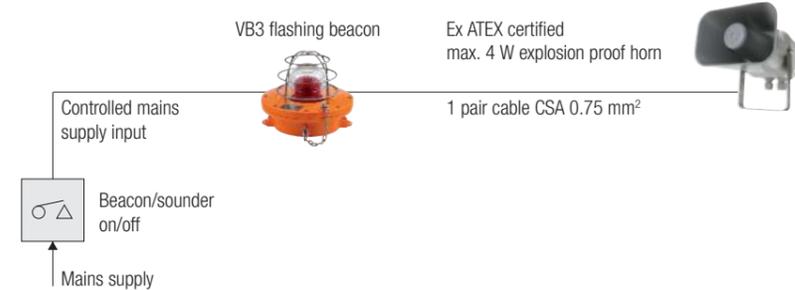
**Beacon application in a PA/GA system**

Simple diagram shows PSC VODEC VB3 emergency visual alarm annunciator as part of an overall PA/GA broadcast system. Loop wiring ensures continued operation in event of a single field cable disconnection.



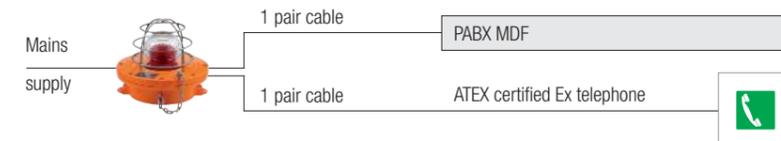
**Combined audible/visual warning system (direct switched)**

The diagram shows VB3 and explosion proof horn to form a complete alarm annunciator package providing efficient acoustic and visible coverage.



**Combined visual warning system (telephone activated)**

The VB3 incorporates a telephone ringing voltage detector, upon resolution of ring voltage the beacon is initiated and provides continuous flashing annunciation until the subscriber handset is taken off hook. Telephone line is galvanically isolated from the beacon by integral optical coupling device which assures safety.



**Alarm tones**

Alarm	Tone
1	Ramp 1200 Hz to 500 Hz in 1 sec.
2	1 kHz, 1 sec. ON - 1 sec. OFF
3	1 kHz, Continuous Tone
4	500 Hz for 0.5 sec.; 1 kHz for 0.5 sec.
5	7 Short Pulses of 1 kHz for 7 sec. followed by a 1 kHz Blast for 7 sec.
6	800 Hz Continuous Tone
7	800 Hz, 1 sec. ON / 1 sec. OFF
8	500 Hz 1 sec., 1kHz 1 sec., 500 Hz 1 sec. repeating

Alarm	Tone
9	2 kHz, 0.25 sec. ON, 0.25 sec. OFF
10	1 kHz for 1 sec. / 800 Hz for 1 sec.
11	500 Hz Continuous Tone
12	800 Hz, 2 sec. ON / 2 sec. OFF
13	1 kHz for 0.25 sec./ 800 Hz, 0.25 sec.
14	1 kHz, 2 sec. ON, 2 sec. OFF
15	800 Hz, 1 sec. ON, 1 sec. OFF
16	1 kHz for 1 sec., 500 Hz for 1 sec.

**Fresnel colours**

Fresnel colour	Code no.
amber	VBB 001 AM
blue	VBB 001 BL
clear	VBB 001 CL
red	VBB 001 RD
yellow	VBB 001 YL
green	VBB 001 GR