KAC Audible Visible Range

EN54-23 Intelligent Visual Alarm Device (VAD)

> Product Overview

KAC's EN54-23 Visual Alarm Device is a high quality loop powered beacon intended to alert all building occupants of an emergency. Designed and approved to meet EN54-23, the European standard for VADs, the device generates 360° light coverage making it suitable for both wall and ceiling mount applications. It utilizes a universal System Sensor B501AP base for enhanced installation flexibility and reduced inventory.

> Certification

LPCB — LOSS PREVENTION CERTIFICATION BOARD

EN54-23 Approved C & W Category

CE

> Product Benefits

Simple, fast installation
- Large cable access
- Rear or surface cable entry
- Loop continuity spring

Flexible system design
- 360° light output makes device suitable for wall & ceiling mount applications
- Rotary wheels for clear address indication
- Low profile & deep base options

Reduced install errors & easy diagnosis
- Positive "poke yoke" engagement
- Anti-tamper feature
- In-built isolation options

Quality & reliability
- High quality robust materials for longer life
- UV stable materials
- Robust construction for added impact resistance
- High aesthetic value

Reduced inventory count
- Common base with detectors (B501AP)
- Device protocol is backward compatible through inclusion of both System Sensor CLIP and Advanced Protocols
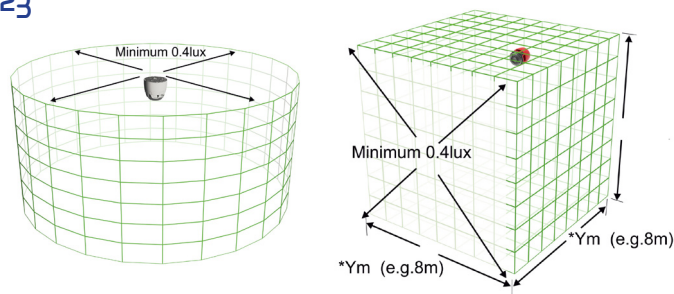
Excellent system performance
- High output LED technology ensures optimum light output
- Advanced protocol enables device function control and group polling
- Automatic synchronization of beacon

> The requirements of EN54-23

A cylinder or cube of light with a minimum of 0.4 Lumens/m^2

*X & Y dimensions are defined by the device manufacturer

Minimum 0.4lux

Minimum 0.4lux

*Ym (e.g.8m)

*Ym (e.g.8m)

> Applications

Technical Overview

KAC's EN54-23 approved VAD is a high quality device designed for fast and simple installation and control. It is powered by the fire panel via the loop wiring. Operation and control of the device is via System Sensor Advanced or CLIP Protocol. The device is installed simply by a twist fit onto the universal B501AP base.

Electrical Specification

Supply Voltage:	15 to 29VDC
Standby Current:	450µA
Typical Current Consumption:	31mA @ 24VDC
Maximum Current Consumption:	40mA @ 20VDC
VAD Flash Rate:	0.5Hz

Environmental Specification

Operating Temp:	-25°C to 70°C
Relative Humidity:	93% ± 3% non-condensing

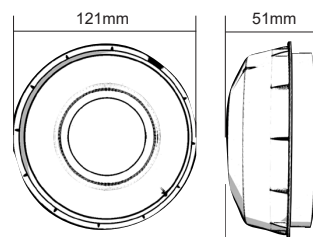Ingress Protection: IP21C (with low profile base + IP21 seal)
IP65 (deep base + seal kit)

Approvals

Approved To:	EN54-23 C & W Category
	EN54-17 where applicable

For RoHS, WEEE & REACH information please visit www.kac.co.uk

Mechanical Specification

Colour:	Pure white
Lens Colour:	Clear
Weight:	210g
Cable Terminal Size:	1.5 - 2.5mm^2 max

121mm   51mm

Product Performance Summary

Intelligent VAD	Ceiling Mount: C - Category	Wall Mount: W - Category
Flash Colour	White	White
EN54-23 Coverage Volume	C-3-5.1/ C-6-5.1/ C-9-5.1	W-2.4-2.7
Installation Height	3m / 6m / 9m	2.4m
EN54-23 Coverage	Cylinder ø = 5.1m	Cube = 2.7m
EN54-23 Coverage Volume	61m³/ 122m³/ 183m³	18m³
Flash Rate	0.5 Hz	0.5 Hz
Operating Voltage Range	15 to 29 VDC	15 to 29 VDC

Ordering Information

Intelligent VAD	Body Colour	Lens Colour	Isolation	Customer ID
VAD-PC-I**	P=Pure White	C=Clear	I=Isolation	0-99
VAD-PC-N**	P=Pure White	C=Clear	N=Non-Isolation	0-99

** Customer ID

Bases	Description	Body Colour
B501-AP	Low profile base	Pure White
WRR	High IP surface mount deep base	RR= Red
WPW	High IP surface mount deep base	PW=Pure White

> KAC Alarm Company Ltd
KAC House, Thornhill Road,
North Moons Moat, Redditch,
B98 9ND, United Kingdom
Tel: +44 (0) 1527 406655
Fax: +44 (0) 1527 406677
e-mail: marketing@kac.co.uk

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