

NON-ADDRESSABLE MULTITONE & MULTI-CANDELA NOTIFICATION APPLIANCE VL-x-MS

▪ Description

The VL-x-MS is a strobe and horn product which is non-addressable, powered by 2-wire DC24V, and can be wall or ceiling mounted indoors. It can provide a 15cd, 30cd, 75cd, 110cd level strobe as well as a multitone sound alarm.

The appliances are connected to, and activated by a UL listed Velocity control panel. When multiple appliances are connected to a NAC, the sound and light between products in the same circuit area can be synchronized.

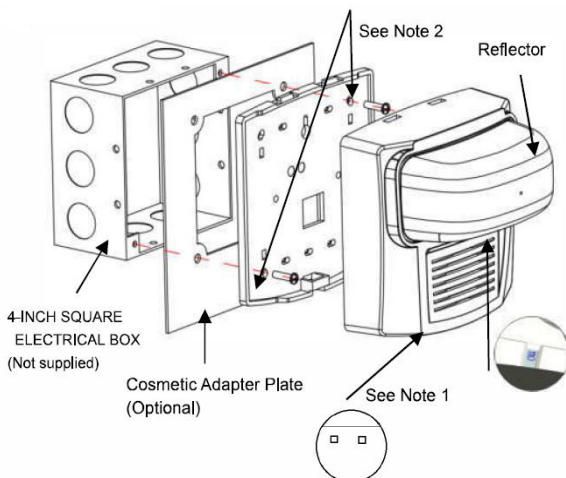
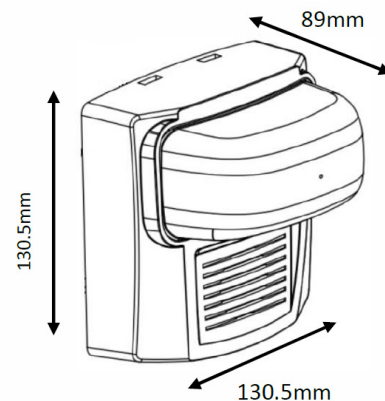
When an alarm signal is emitted, it means there may be an emergency, and should be payed attention immediately.



▪ Features

- Designed to meet UL requirements.
- Compatible with all Velocity NAC circuits.
- Adjustable sound and light output levels.
- Designed to be either wall or ceiling mounted.
- Indoor use only.
- Powered by 2-wire DC 24V.
- Can be installed in a standard square 4-inch double gang box.
- Horns and strobes on the same NAC can be synchronized.

▪ Dimensions



Note 1: To remove the cover, depress the snap at the bottom of the product with a key (or flat tip screwdriver) while pulling the cover up with the other hand.

▪ Mounting

Products can be installed in standard square 4-inch double gang box. Before installing and wiring, the power of the NAC must be powered off. After the completion of the terminal wiring, ensure that the terminals are locked. It is recommended to install a Cosmetic Adapter Plate before installing the Notification devices products. Please check the cosmetic adapter plate installation instructions for details.

Note 2: The product attaches directly to a standard 4-inch square electrical box (not supplied) flush mounted or surface mounted. Attach the product to the back cover using two screws (supplied).

Specifications

Specification	VL-x-MS
Colour	White or Red Available
Design Standard	UL 1971 & UL 464
Approval	UL Laboratories
Nominal Voltage	Regulated 24V DC
Operating Voltage Range	Regulated 16 VDC to 33 VDC
Strobe Flash Rate	1Hz
Operating Temperature	32° to 120° F (0° to 49° C)
Humidity Range	10% to 93%, non-condensing at 100° F (38° C)
Dimensions (HxWxD)	130.5mm × 130.5mm × 89mm
Terminal Wiring Size	18 AWG to 12 AWG
Mounting Position	Wall or Ceiling
Material	PA-763
IP Rating	23
Mouting Box	4 x 4 Inch Double Gang Box

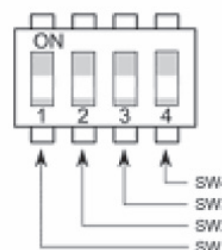
Product Codes

Wall Mount Multitone/Strobe (White)	VL-W-MS-W
Wall Mount Multitone/Strobe (Red)	VL-W-MS-R
Ceiling Mount Multitone/Strobe (White)	VL-C-MS-W
Ceiling Mount Multitone/Strobe (Red)	VL-C-MS-R

Sound & Light Characteristics

Candela Rating	Input Voltage Regulated DC	Maximum Operating Current RMS*
15	16VDC	167mA(*167)
30	16VDC	235mA(*235)
75	16VDC	350mA(*350)
110	16VDC	441mA(*441)

* A/V Strobe Current is measure with horn circuit steady ON.
(*) for ceiling current only.

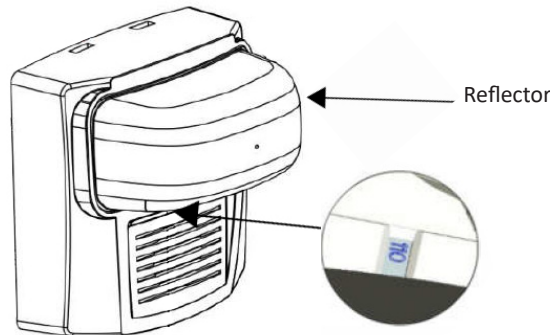


Switch: S1

Switch Settings				HornMode	Sound Pressure Level Measurement (dBA)
SW4	SW1	SW2	SW3	Tone	Reverberant Room at 10 Feet Per UL464
1 (High output)	1	1	1	Broadband Horns	80.5
	1	1	0	Horn	80.9
	1	0	1	Bell	76.7
	1	0	0	Siren	75.8
	0	1	0	Slow Whoop	77.9
	0	0	1	500Hz Horn	83.1
	0	0	0	Hi/Low	82.5
	0	1	1	Reserved	Horn Off
0 (Standard Output)	1	1	1	Broadband Horns	74.6
	1	1	0	Horn	75.8
	1	0	1	Bell	70.2
	1	0	0	Siren	68.6
	0	1	0	Slow Whoop	66.5
	0	0	1	500Hz Horn	73.9
	0	0	0	Hi/Low	72.7

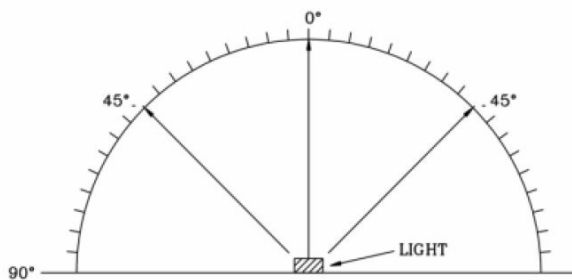
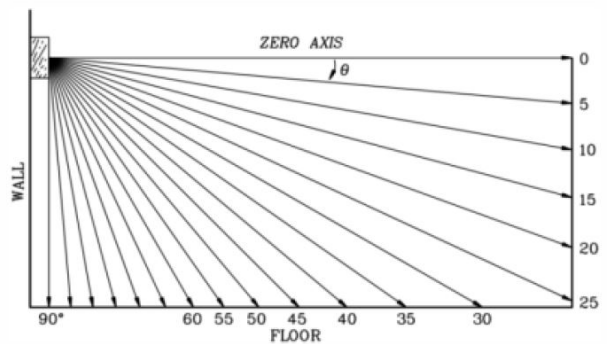
▪ **Strobe Light Output**

There are four grades in the S/V appliance strobe strength: 15cd (factory pre-set), 30cd, 75cd, 110cd, adjust the slide switch to the required brightness which is placed in the back of the product, the reflector has a small window to observe the strength grade (See below). The strobe dispersion ratings of the product follows the standard UL 1971, the relationship between the angle and the strength is as in the following tables:



Wall Mount Strobe Vertical and Horizontal Light Dispersion Ratings (Room Temperature)					
Vertical Dispersion (Wall to Floor)			Horizontal Dispersion		
X-Plane Degrees*	Percent of Rating	Typical Output	Y-Plane Degrees*	Percent of Rating	Typical Output
0	100		0	100	
5-30	90		±5 - 25	90	
35	65		±30 - 45	75	
40	46		±50	55	
45	34		±55	45	
50	27		±60	40	
55	22		±65 - 70	35	
60	18		±75 - 80	30	
65	16		±85 - 90	25	
70	15		Compound ±45 right	24	
75	13		Compound ±45 left	24	
80-90	12				

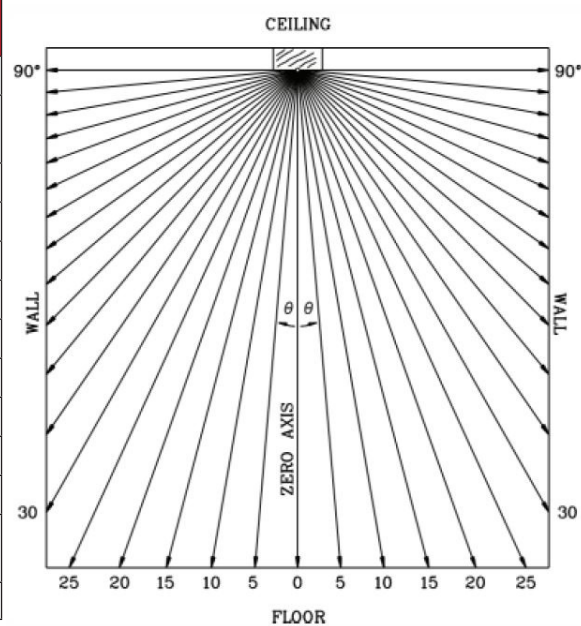
*Tolerance of ± 1 degree is permitted.



Ceiling Mount Strobe Vertical and Horizontal Light Dispersion Ratings (Room Temperature)

Vertical Dispersion			Horizontal Dispersion		
X-Plane Degrees*	Percent of Rating	Typical Output	Y-Plane Degrees*	Percent of Rating	Typical Output
0	100		0	100	
±5-25	90		±5 - 25	90	
±30-45	65		±30 - 45	75	
±50	46		±50	55	
±55	34		±55	45	
±60	27		±60	40	
±65 - 70	22		±65 - 70	35	
±75 - 80	18		±75 - 80	30	
±85 - 90	16		±85 - 90	25	
Compound ±45 right	15		Compound ±45 right	24	

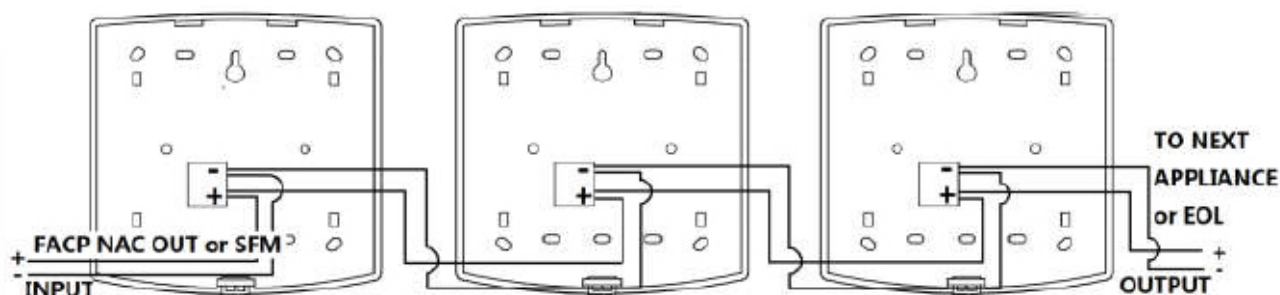
*Tolerance of ± 1 degree is permitted.



Wiring

In order to ensure that the total current consumption of the circuit does not exceed the maximum load current of the NAC module, the device quantity must be considered in the design of system.

If a NAC has the maximum number of notification appliance connected, any loss of voltage must be calculated to ensure notification products work within their rated voltage range. Please refer to the FACP or NAC and other equipment installation instructions.



All specifications are subject to change without any notice.
For more information, contact with VELOCITY.



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