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by Honeywell

Opal™ AV Devices
Data Sheet

Notifier's Opal AV (Audio Visual) range is designed to alert building occupants of an emergency. The Opal AV range of analogue addressable, loop powered, audible and visible fire alarm devices, provides a comprehensive selection of products designed to meet the majority of fire alarm installation requirements. The range utilizes Notifier's advanced digital Opal protocol to minimize the current required, enable longer loops and provide distinct signals for different alarm types.

The Opal AV range is easily mounted on the standard Notifier B501AP base for improved installation flexibility making all devices - detectors, sounders and beacons alike - fully interchangeable without the need for any wiring disturbance.

Benefits

- **Faster installation -** The large cable access, rear or surface cable entry options and innovative loop continuity spring all make for faster more cost effective installation.

- **Reduced install errors and easy fault finding -** devices are mounted using a positive push and turn engagement system and are supplied with an address tag for clear identification. Isolation is built-in to each device and addressing is made simple by familiar rotary wheel address controls. In addition each device incorporates an anti-tamper feature giving added security.

- **Excellent system performance** - High light output and a selection of 32 sounder tones can be synchronised via the Notifier control panel to provide fast clear warning of a fire related incident.

- **Flexible installation** - The low current draw of the devices enables more devices on each loop. This combined with the wide range of devices and mounting options including deep and high IP options, white or red colour options and sounder volume controllable from the panel or the sounder itself all make for greater flexibility for the system designer.

- **Reduced lifetime costs** - each device in the Opal AV range is constructed from high quality UV stable materials, designed for impact resistance and years of trouble free operation. If changes to a system are required the universal system base means a sounder/beacon can be added without re-wiring.

- **Reduced inventory count** - Notifier's Opal AV range now utilizes the B501AP system base,- common to detectors. The Opal AV range is designed to maximise the features of Notifier's advanced digital Opal protocol but remains backward compatible with previous Notifier communication protocols so can be used for retrofit and replacement for older systems.

Opal AV devices provide both standard wall mounting units and integrated base units allowing the direct fitting of Notifier detectors. Wall mounting units are available as a sounder, sounder & beacon combination and a beacon only with sounder colour options of both red and white. Integrated base sounder units are also available as either a sounder or a sounder and beacon combination in colours to match the detectors.

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Addressable Loop Powered Base Sounders and Beacons
NFXI-BF-WC beacon, NFXI-BS-W sounder, NFXI-BSF-WC sounder/beacon

Notifier's range of base sounders and beacons are high quality loop powered devices designed to alert building occupants of an emergency. Featuring fast and simple installation and control they form the perfect base for Notifier Opal detectors. Powered by the fire panel via the loop wiring, control of the devices is enabled using on-board switches or via the Opal digital protocol using the control panel. The range is installed simply by a twist fit onto the B501AP base which is used for detectors.

The Opal base sounder/beacon integrates a high quality 32 tone sounder and high quality beacon into one unit. When triggered by the fire panel its powerful sounder and intense beacon give a visible and audible warning.

The Opal base sounder is a high quality 32 tone sounder. A choice of output levels and tones make the device suitable for a wide variety of applications.

The Opal base beacon is a high quality loop powered device which when triggered by the fire panel emits an intense red light to give a visible warning to building occupants.

Specifications
Opal Addressable Base Beacon - NFXI-BF-WC
Opal Addressable Base Sounder - NFXI-BS-W
Opal Addressable Base Sounder/Beacon - NFXI-BSF-WC

Mechanical Specification

	NFXI-BF-WC	NFXI-BS-W	NFXI-BSF-WC
Height:	64mm	64mm	64mm
Diameter:	121mm	121mm	121mm
Weight:	200g	200g	202g
Body colour:	white*		
Lens colour:	Clear	N/A	Clear
Light colour:	Red	N/A	Red
Beacon flash rate:	1Hz	N/A	1Hz
Number of tones:	N/A	32	32
Volume settings:	N/A	High,Medium & Low	
Wire gauge for terminals:	1.5 - 2.5mm² max		

Electrical Specification

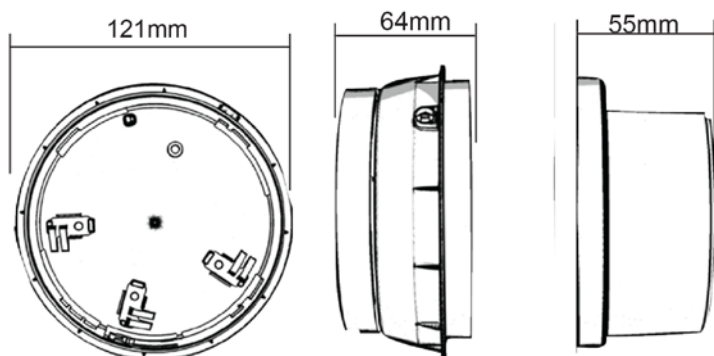|	NFXI-BF-WC	NFXI-BS-W	NFXI-BSF-WC
Supply voltage:	15 to 28VDC		
Standby current:	225µA		
Max current consumption:	<3.5mA	<10.5mA[1]	< 14mA[1]
Max sound output:	N/A	95dB(A) +/-3dB @1 metre[2]	

[1] High Volume Tone 21 @24V
[2] High Volume, Tone 8 @24V (Tone Dependent - Figure stated is based on high volume 970Hz continuous @24VDC)

Environmental Specifications
- Temperature Range: -25°C to +70°C†
- Humidity: Max. 95% relative humidity (non-condensing)
- IP Rating: IP24 with low profile (B501AP) base
  IP44 with deep bases (BRR, BPW, BDD)
  IP65 for NFXI-BS with sealed deep base (WRR)

Approvals
- Approved to: EN54-3, EN54-17 and CPD

121mm   64mm   55mm

*Also available in ivory colour to match previous ranges of detectors.

NFXI-BF-IVC, NFXI-BS-IV and NFXI-BSF-IVC - electrical and mechanical specifications are otherwise the same.

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Addressable Loop Powered Wall Mount Sounders and Beacons

Notifier's range of wall mount sounders and beacons are high quality loop powered devices designed to alert building occupants of an emergency. Featuring fast and simple installation and control they are powered by the fire panel via the loop wiring. Control of the devices is enabled using on-board switches or via the Opal digital protocol using the control panel. The range is installed simply by a twist fit onto the B501AP base.

The Opal wall mount sounder/beacon integrates a high quality 32 tone sounder and high quality beacon into one unit. When triggered by the fire panel its powerful sounder and intense beacon give a visible and audible warning.

The Opal wall mount sounder is a high quality 32 tone sounder. A choice of output levels and tones make the device suitable for a wide variety of applications.

The Opal wall mount beacon is a high quality loop powered device which when triggered by the fire panel emits an intense red light to give a visible warning to building occupants.

Specifications

Opal Addressable Wall Beacon - NFXI-WF-RR
Opal Addressable Wall Sounder - NFXI-WS-R
Opal Addressable Wall Sounder/Beacon - NFXI-WSF-RR

Mechanical Specification

	NFXI-WF-RR	NFXI-WS-R	NFXI-WSF-RR
Height:	51mm	64mm	64mm
Diameter:	121mm	121mm	121mm
Weight:	238g	168g	238g
Body colour*:	N/A	Red	N/A
Lens colour*:	Red	N/A	Red
Light colour:	Red	N/A	Red
Beacon flash rate:	1Hz	N/A	1Hz
Number of tones:	N/A	32	32
Volume settings:	N/A	High,Medium & Low	
Wire gauge for terminals:	1.5 - 2.5mm^2 max		

Electrical Specification

	NFXI-WF-RR	NFXI-WS-R	NFXI-WSF-RR
Supply voltage:	15 to 28VDC		
Standby current:	225µA		
Max current consumption:	3.5mA	11.4mA[1]	14.7mA[1]
Max sound output:	N/A	97dB(A) +/-3dB @1metre[2]	

[1] High Volume Tone 21 @24V
[2] High Volume, Tone 8 @24V (Tone Dependent - Figure stated is based on high volume 970Hz continuous @24VDC)
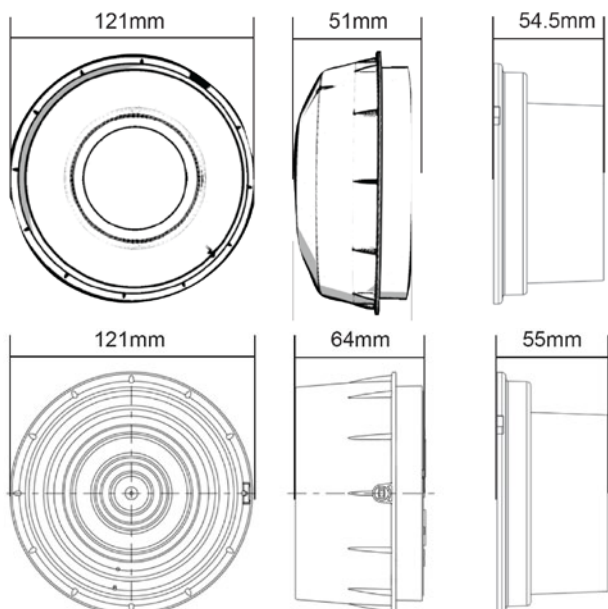
Environmental Specifications

- Temperature Range: -25°C to +70°C[†]
- Humidity: Max. 95% relative humidity (non-condensing)
- IP Rating: IP24 with low profile (B501AP) base
  IP44 with deep bases (BRR, BPW, BDD)
  IP65 for NFXI-BS with sealed deep base (WRR)

Approvals

- Approved to: EN54-3, EN54-17 and CPD

*Sounders and sounder/beacons are also available with white body and clear lens. NFXI-WS-W and NFXI-WSF-WC - electrical and mechanical specifications are otherwise the same.

121mm 51mm 54.5mm

121mm 64mm 55mm

Product Range at a Glance

Opal AV Devices (Pure White)		Part Number
	Addressable, loop powered base sounder, PURE WHITE, with built in loop isolation	NFXI-BS-W
	Addressable, loop powered base sounder / beacon, PURE WHITE with built in loop isolation and clear lens	NFXI-BSF-WC
	Addressable, loop powered base beacon, PURE WHITE, with built in loop isolation and clear lens	NFXI-BF-WC
	Wall mounting, addressable, loop powered sounder, RED, with built in loop isolation	NFXI-WS-R
	Wall mounting, addressable, loop powered sounder, PURE WHITE, with built in loop isolation	NFXI-WS-W
	Wall mounting, addressable, loop powered sounder with RED beacon, RED lens, with built in loop isolation	NFXI-WSF-RR
	Wall mounting, addressable, loop powered sounder with RED beacon, CLEAR lens with built in loop isolation	NFXI-WSF-WC
	Wall mounting, addressable, loop powered RED beacon with built in loop isolation	NFXI-WF-RR
	Addressable base for detector and AV - concealed when AV unit installed, use for all colours	B501AP
	Addressable deep base for detector and AV, RED (including B501AP base)	BRR
	Addressable deep base for detector and AV, WHITE (including B501AP base)	BPW
	Addressable sealed deep base for detector and AV, RED (including B501AP base)	WRR

Opal AV Devices (Ivory)		Part Number
	Addressable, loop powered base sounder, IVORY, with built in loop isolation	NFXI-BS-IV
	Addressable, loop powered base sounder / beacon, IVORY with built in loop isolation and clear lens	NFXI-BSF-IVC
	Addressable, loop powered base beacon, IVORY, with built in loop isolation and clear lens	NFXI-BF-IVC
	Addressable deep base for detector and AV, IVORY	BDD