

FEATURES

- ✓ FlashScan & CLIP protocol (Rev C and later)
- ✓ Powered from SLC loop (No external 24V required)
- ✓ Fits to SSF-BASE for easy installation
- ✓ Able to fit detector directly to sounder/strobe base
- ✓ Low current draw enables more devices on loop
- ✓ Intense strobe output
- ✓ Synchronisation of sounder / strobe
- ✓ Anti-tamper feature
- ✓ Simple familiar rotary wheel address
- ✓ 4 Tone and 2 volume selections for sounders
- ✓ 2 flash pattern selections for strobes
- ✓ Excellent sound output
- ✓ Up to 159 addresses are available via two rotary selector switches
- ✓ The alarm tone / light can be tested in the field
- ✓ Sounders approved to AS7240.3

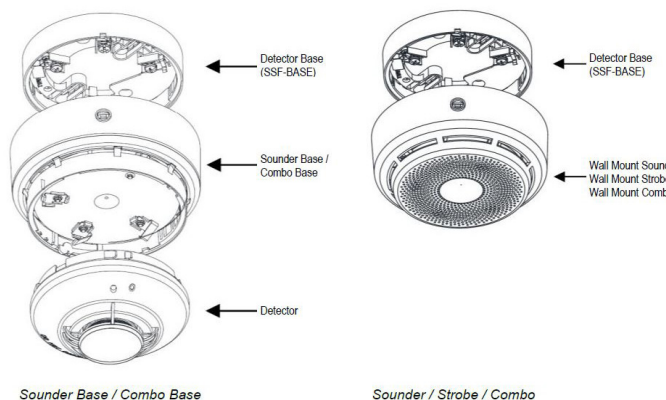


PRODUCT DESCRIPTION

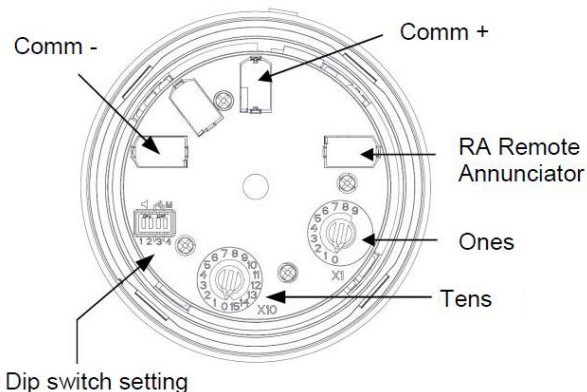
The FireSense range of Intelligent Flashscan Loop Powered AV devices are high quality and feature packed, designed to alert building occupants of an emergency. The AV devices are intended to be connected to AFP-3030 and AFP-2800 analog addressable fire alarm systems. These devices receive their power from the loop and are designed to operate in FlashScan mode with Alert and Evacuation tones compliant with AS2220 or ISO8201 T3 tones.

This range includes sounders, strobes, sounder strobes, sounder bases and combo bases. The devices are installed in the same manner as an intelligent fire detector. For easy installation, the AV devices fit into the standard addressable base (SSF-BASE).

The sounders have two volume levels (high and low) and 4 tone types. The strobes have two flash patterns (Evacuate and Alert). When activated, the sounders and strobes will give either a visual, an audible or a visual and audible warning (based on device). The choice of output levels and tones make these devices suitable for a wide variety of applications.

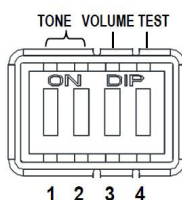


DEVICE OVERVIEW



Note: Whilst up to 159 devices can be used on the Flashscan Loop, the following table outlines the maximum amount that can be programmed to operate at the same time.

Type	Max simultaneously in alarm
Strobe only	90 Alert / 86 Evac
Sounder only	66 High / 100 Low
Sounder + Strobe	36 High / 47 Low



DIP Switch Settings	
TONE	
	FLASHSCAN
0 0 X X	ISO8201 Temporal 3 Evac Tone
1 1 X X	ISO8201 Temporal 3 Alert Tone
0 1 X X	AS2220 Evac Tone
1 0 X X	AS2220 Alert Tone
VOLUME	
X X 1 X	High Volume
X X 0 X	Low Volume
FLASH PATTERN	
	FLASHSCAN
0 0 X X	Synchronised T3 Evacuation Pattern
1 1 X X	
0 1 X X	
1 0 X X	Synchronised AS2220 Alert Pattern
FIELD TEST FUNCTION	
Simulates device activation (based on Flashscan settings) - Set to 0 for normal use	
X X X 1	Field Testing On
X X X 0	

PROGRAMMING

2800 Type 5 (Control Module)

Use custom logic i.e. 'CA and !WI;'

3030 Custom Programming / Local Sounder

Type Code = Control / Flashscan Type = Control

Use zone logic 'AND(OR(ZO,ZF7),NOT(ZF25))'

General Notification Device

Type Code = Alarm Device / Flashscan Type = Control

Use ZO in CBE

NOTE: Replace 'CA' or 'ZO' (common alarm) in the above examples with the local smoke zone if required.

NOTE: Programming may be required if NFX device is replaced with newer NFS device as device will not work if programmed as 'Loop Sounder/Strobe'.

ORDERING INFORMATION

Ivory Parts	
NFS-BSO	Addressable Detector Base Sounder
NFS-BSS	Addressable Detector Base Sounder / Strobe (Sounder Base - ivory / Strobe - red)
SSF-BASE-IV	Universal addressable detector base
Indent Items - Ivory Parts	
*NFS-WSO	Addressable Wall Mount Sounder
*NFS-WSS	Addressable Wall Mount Sounder / Strobe
*NFS-WST	Addressable Wall Mount Strobe

*Indent item - lead times may apply.

Pure White Parts	
NFS-BSO-WHITE	Addressable Detector Base Sounder
NFS-BSS-WHITE	Addressable Detector Base Sounder / Strobe
SSF-BASE-W	Universal addressable detector base

ELECTRICAL SPECIFICATIONS

	NFS-WSO Wall Mount Sounder - Off White	NFS-BSO Detector Base Sounder - Off White	NFS-WST Wall Mount Strobe - Red	NFS-WSS Wall Mount Sounder & Strobe - Red	NFS-BSS Detector Base Sounder - Off White & Strobe - Red
Supply voltage: (non-isolation)	24Vdc (15Vdc ~ 32Vdc)				
Quiescent current	<400µA (24Vdc, No Communication, No sounding/flashing)				
Alarm current consumption: (non-isolation)	<6mA High volume, 24Vdc <4mA Low volume, 24Vdc		<8mA Alert Flash Pattern (4.4mA) Evacuate Flash Pattern (4.6mA)		<11mA High volume, 24Vdc <8.5mA Low volume, 24Vdc
Approved Sound Pressure Level (Approved to AS ISO 7240.3:2014)	86±4dB(A) 1m, High Volume, ISO8201 Temporal 3 Evacuation Tone @24V (2.7mA)	83±4dB(A) 1m, High Volume, ISO8201 Temporal 3 Evacuation Tone @24V (2.7mA)	N/A	86±4dB(A) 1m, High Volume, ISO8201 Temporal 3 Evacuation Tone @24V(2.7mA)	83±4dB(A) 1m, High Volume, ISO8201 Temporal 3 Evacuation Tone @24V(5.0mA)
Maximum Sound Output (1m, 90°):					
ISO8201 temporal 3 evacuation tone	High: 90±4dB(A)@24V(3.0mA)* Low: 86±4dB(A)@24V(2.0mA)*	High: 92±3dB(A)@24V(2.7mA)* Low: 88±3dB(A)@24V(2.0mA)*	N/A	High: 90±4dB(A)@24V(5.0mA)* Low: 86±3dB(A)@24V(4.7mA)*	High: 92±3dB(A)@24V(5.0mA)* Low: 89±3dB(A)@24V(4.7mA)*
AS2220 evacuation tone	High: 93±4dB(A)@24V(3.0mA)* Low: 86±4dB(A)@24V(2.0mA)*	High: 94±4dB(A)@24V(3.0mA)* Low: 88±3dB(A)@24V(2.0mA)*	N/A	High: 92±3dB(A)@24V(6.0mA)* Low: 86±4dB(A)@24V(5.0mA)*	High: 95±3dB(A)@24V(6.0mA)* Low: 89±3dB(A)@24V(5.0mA)*
AS2220 alert tone	High: 93±5dB(A)@24V(2.5mA)* Low: 82±5dB(A)@24V(1.7mA)*	High: 95±3dB(A)@24V(2.5mA)* Low: 85±4dB(A)@24V(1.7mA)*	N/A	High: 91±5dB(A)@24V(5.7mA)* Low: 81±3dB(A)@24V(4.7mA)*	High: 95±4dB(A)@24V(5.7mA)* Low: 85±5dB(A)@24V(4.7mA)*
ISO8201 temporal 3 alert tone	High: 95±5dB(A)@24V(2.5mA)* Low: 83±6dB(A)@24V(1.8mA)*	High: 94±7dB(A)@24V(2.5mA)* Low: 85±5dB(A)@24V(1.8mA)*	N/A	High: 95±5dB(A)@24V(5.5mA)* Low: 84±6dB(A)@24V(4.7mA)*	High: 94±7dB(A)@24V(5.5mA)* Low: 85±5dB(A)@24V(4.7mA)*
Strobe Flash Intensity	N/A			>1cd	

ELECTRICAL SPECIFICATIONS CONT.

	NFS-WSO Wall Mount Sounder - Off White	NFS-BSO Detector Base Sounder - Off White	NFS-WST Wall Mount Strobe - Red	NFS-WSS Wall Mount Sounder & Strobe - Red	NFS-BSS Detector Base Sounder - Off White & Strobe - Red
Flash Patterns Available	N/A		2 options (Evacuate and Alert)	2 options Evacuate flash pattern synchronised with Temporal T3 Evacuation / ISO8201 T3 Alert Tone or AS2220 Evacuation Tone Alert flash pattern synchronised with AS2220	
Tone Types Available	4 options ISO8201 Temporal 3 Evac Tone ISO8201 Temporal 3 Alert Tone AS2220 Evac Tone AS2220 Alert Tone		N/A	4 options ISO8201 Temporal 3 Evac Tone ISO8201 Temporal 3 Alert Tone AS2220 Evac Tone AS2220 Alert Tone	
Maximum active per loop	66 high volume / 100 low volume		90 Alert Flash / 86 Evac Flash Pattern	36 high volume / 47 low volume	

ENVIRONMENTAL SPECIFICATIONS

	NFS-WSO Wall Mount Sounder - Off White	NFS-BSO Detector Base Sounder - Off White	NFS-WST Wall Mount Strobe - Red	NFS-WSS Wall Mount Sounder & Strobe - Red	NFS-BSS Detector Base Sounder - Off White & Strobe - Red
Operating Temperature	-25°C to +70°C	-10°C to +70°C	-25°C to ~ +70°C		-10°C to +70°C
Relative Humidity	10~95% R.H. (non-condensing)				
Ingress Protection	IP33 (Approved to EN54-3)	IP21C	IP33 (Approved to EN54-3)		IP21C
Dimensions	47mm x 122mm	52mm x 122mm	47mm x 122mm		52mm x 122mm
Weight	176±6g	196±6g	156±6g	176±6g	196±6g
Strobe Flash Intensity	N/A		>1cd		

* These volume & tone settings are not approved to AS ISO 7240.3:2014.

***This ingress protection is not approved to AS ISO 7240.3:2014.

*** Note: Beacons are not approved to AS ISO 7240.23.

APPROVALS

- ✓ SAI Global: Certificate No. SMKH25312 (refer to certificate for compliance)