Illumino Ignis Ltd™
LIGHTING & FIRE DESIGN, SUPPLY & SUPPORT

Sounder Visual Indicator Base

Addressable - Devices

Part No. 45681-393APO

www.illuminoignis.co.uk

Product Details

The Discovery Sounder Visual Indicator Base is a multifunctional device made up of a mounting base for Discovery fire detectors, a sounder, a visual indicator and a short-circuit isolator.

The Discovery Sounder Visual Indicator Base is used to provide audible and visual warning of fire and is controlled by the appropriate fire control panel by means of the full Discovery protocol, the particular features of which should be requested from the panel manufacturer.

The Discovery Sounder Visual Indicator Base can be used either with a detector fitted or with a cap fitted for operation as a stand-alone alarm device.

Key Features

- 15 evacuation tones and 15 secondary or alert tones
- Seven volume levels
- Software defined group addressing
- Alarm switching by individual device, by group or all devices on the loop
- Independent control of sounder and visual indicator
- Set-up and testing of devices at point of installation
- Isolator status information
- Unique acoustic self-test

Technical Specifications

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Operating voltage	17 - 28 V dc polarity sensitive	
Digital communication	Discovery (CoreProtocol compatible)	
Protocol pulses	5 - 9 V	
Current consumption at 24 V dc	Quiescent current	450 µA
	Power-up surge current	1.2 mA
Device operated at maximum volume	8 mA	
Maximum sound output at 90°	90 ± 3 dB(A)	
Operating temperature	-20 °C to +60 °C	
Storage temperature	-30 °C to +70 °C	
Humidity (no condensation or icing)	0% to 95% RH	
IP Rating	designed to IP21D	
Standards and approvals	EN54-3, CPR, VNIIPO, CCMG	
Dimensions	115 mm diameter x 38 mm height	
Weight	168 g	
Materials	Housing: White flame-retardant polycarbonate Terminals: Nickel plated stainless steel	

Note: For system compatibility and feature support of this device, please refer to your chosen panel manufacturer

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Operation

The Discovery Sounder Visual Indicator Base normally switches both sounder and visual indicator to provide an alert or evacuation signal. The sounder and visual indicator of the Discovery Sounder Visual Indicator Base can, however, be switched independently of each other by the control panel.

Detectors and sounder visual indicators are installed in many different environments.

The sounder is set during commissioning to one of seven levels of sound, the highest being nominally 90 dB(A). At 60 dB(A) the lowest level is outside of the standard EN 54. It has been included to provide a very local warning for the use of personnel in particular environments, such as nurse stations in hospitals. For full details of Sound Pressure Levels, refer to PP2203 - Sound Pressure Levels, available at www.apollo.co.uk

When configuring the Discovery Sounder Visual Indicator Base the adjustment of volume can be configured at the point of installation.

The commissioning engineer simply sets the control panel to 'Setup' and then walks from one device to the next to set the required volume using a magnetic wand, Part No. 29650-001.

When all the devices have been set the control panel is used to register all the individual volume settings.

The Discovery Sounder Visual Indicator Base offers a choice of 15 evacuation tones, including the standard Apollo evacuation tone. One of these tones is selected during commissioning in order to suit local regulations or customs.

The tones include those required by Dutch, Swedish, German, Australian, New Zealand and North American standards as well as the UK.
Whichever evacuation tones is selected there is a secondary tone which may be used for alerting or warning of a possible evacuation.

In many installations a fire alarm must be raised by switching more than one sounder visual indicator to alert or alarm simultaneously. This is achieved with Sounder Visual Indicator Bases by assigning devices to groups on commissioning, with the group information being stored in each device. One command will then switch on all devices in the group.

EMC Directive 2014/30/EU

The Discovery Sounder Visual Indicator Base complies with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described in this data sheet.

A copy of the Declaration of Conformity is available from the Apollo website: www.apollo-fire.co.uk

Conformity of the Discovery Sounder Visual Indicator Base with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

Construction Products Regulation 305/2011/EU

The Discovery Sounder Visual Indicator Base complies with the essential requirements of the Construction Products Regulation 305/2011/EU.

A copy of the Declaration of Performance is available from the Apollo website: www.apollo-fire.co.uk

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Discovery Sounder Visual Indicator Base tone table

Byte value	Primary tone	Frequency		Secondary tone	Frequency	
1	Apollo evacuate tone*	522 Hz for 0,5 s, 707 Hz for 0.5 s	T1	Apollo alert tone	Silence for 1 s, 707 Hz for 1 s	T0
2	Alternating (Hochiki and Fulleon	925 Hz for 0.25 s, 626 Hz for 0.25 s	T12	Continuous (Hochiki and Fulleon	925 Hz	T11
3	Medium sweep*	800 - 970 Hz at 1 Hz	T14	Continuous	970 Hz	T13
4	Fast sweep	2500 Hz - 2850 Hz at 9 Hz	T16	Continuous	2850 Hz	T15
5	Dutch slow whoop (sweep)*	500 Hz - 1200 Hz for 3.5 s, 0.5s off	T3	Continuous	825 Hz	T2
6	DIN tone (sweep)*	1200 - 500 Hz for 1 s	T4	Continuous	825 Hz	T2
7	Swedish fire tone	660 Hz, 150 ms On, 150 ms off	T18	Swedish all clear signal - continuous	660 Hz	T17
8	Australian (fast rise sweep)	3 x (500 Hz - 1200 Hz for 0.5 s),0.5 s off	T6	Australian alert tone	420 Hz, 0.625 s, 0.625s off	T5
9	New Zealand (slow rise sweep)	500 - 1200 Hz for 3.75 s, 0.25s off	T7	New Zealand alert tone	420 Hz, 0.625 s, 0.625s off	T5
10	US temporal LF (ISO 8201)	3 x (970 Hz, 0.5 s on, 0.5 s off), 1 s off	T19	Continuous	970 Hz	T13
11	US temporal HF (ISO 8201)	3 x (2850 Hz, 0.5 s on, 0.5 s off), 1 s off	T20	Continuous	2850 Hz	T15
12	Simulated bell - continuous	n/a	T8	Simulated bell - intermittent	1 s off, 1 s on	T9
13	Emergency warning siren	n/a	T10	Emergency warning - all clear	n/a	T22
14	Evacuation tone	970 Hz continuous	T13	Alert tone	Silence for 1 s, 970 Hz for 1 s	T21
15	Apollo evacuate tone*	522 Hz for 0,5 s, 707 Hz for 0.5 s	T1	Apollo alert tone	Silence for 1 s, 707 Hz for 1 s	T0

* EN 54 compliant tone

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