

Fire Signalling



klaxon
Signalling Solutions

Introduction



Introduction

Klaxon Signals manufactures the world's largest range of sound signalling equipment and solutions for the European and worldwide market place.

Product Range

Klaxon's extensive product range includes: electronic sounders; voice enhanced sounders; sirens; beacons; bells; and buzzers. These products can be used in a variety of applications and are categorised within Klaxon's internal strategic business units: Fire; Industrial; Emergency Warning Systems. This brochure features products aimed at the fire alarm industry.

UK and Worldwide Distribution Network

Klaxon's distribution network gives the benefit of experienced staff, both on a global and local basis, and are fully conversant with Klaxon's visual and sound signalling equipment.

Commitment to quality and innovation

Working to ISO 9001, Klaxon's manufacturing team has the latest production, testing and demonstration facilities, including PCB design and anechoic chambers to ensure the highest possible standards of manufacture and product quality. A continued product development programme, complemented by rigorous quality checks, gives customers the most up to date product offering available in today's market.

Product Approvals

Legislation plays a key part in keeping sounders and safety systems up to date. For example, the Construction Products Directive (CPD) requires that fire system components sold in Europe have to comply with the relevant part of EN54.

“Klaxon Signals is dedicated to continual third party testing and certification both in home and export markets.”

Technical Manager

Klaxon Signals works alongside partner organisations and customers to ensure its products, and the installation of its products, are in line with LPCB, ISO9001, EN54, BS5839 and DDA requirements. Any organisation or individual wishing to discuss its, or Klaxon's, obligations regarding new legislation may contact Klaxon's technical team directly or visit www.klaxonsignals.com.





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EN54-23 Beacons & Sounder Beacons



In a fire, everyone matters. Sonos Pulse and Nexus Pulse fire beacons ensure that all personnel are notified of fire emergencies. With Pulse Alert Technology, buildings are evacuated quicker, evacuation requirements are unambiguous and everyone is made to feel safe and secure.

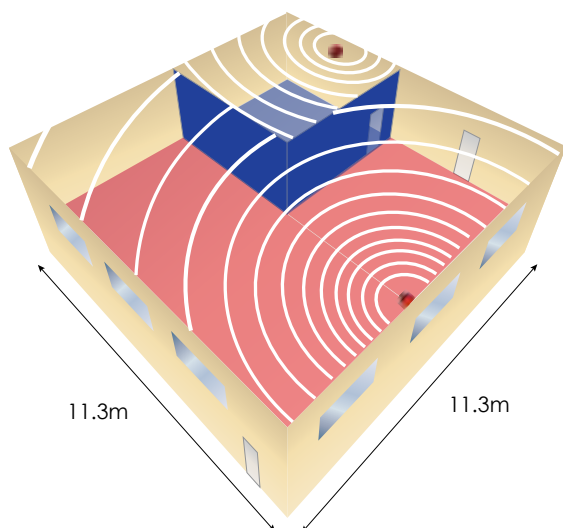
Evacuate Everyone

Klaxon Signals believe that all fire alarm systems should be able to evacuate everyone – systems past, present and future.

Relying on audible fire alarm notification alone disadvantages people with hearing impairments or those working, or living, in sound reducing conditions. Even something as simple as wearing a pair of headphones could prevent someone from hearing an audible fire evacuation warning. To truly evacuate everyone from a building, we need to signal effectively using light as well as sound.

New European fire system standards recognise and legislate for these new requirements. EN54-23 specifies the minimum performance requirements for Visual Alarm Devices (VADs), removing any previous ambiguity regarding the light output requirements or system design parameters involved with using light to evacuate buildings.

At Klaxon Signals we have surpassed these expectations, and taken them even further. We believe that all buildings deserve the latest fire evacuation technology, that all fire alarm systems should be able to be upgraded and that everyone deserves to feel safe and secure.



Pulse Alert Technology requires fewer VADs to provide the level of coverage specified by EN54-23.

Pulse Alert Technology Coverage

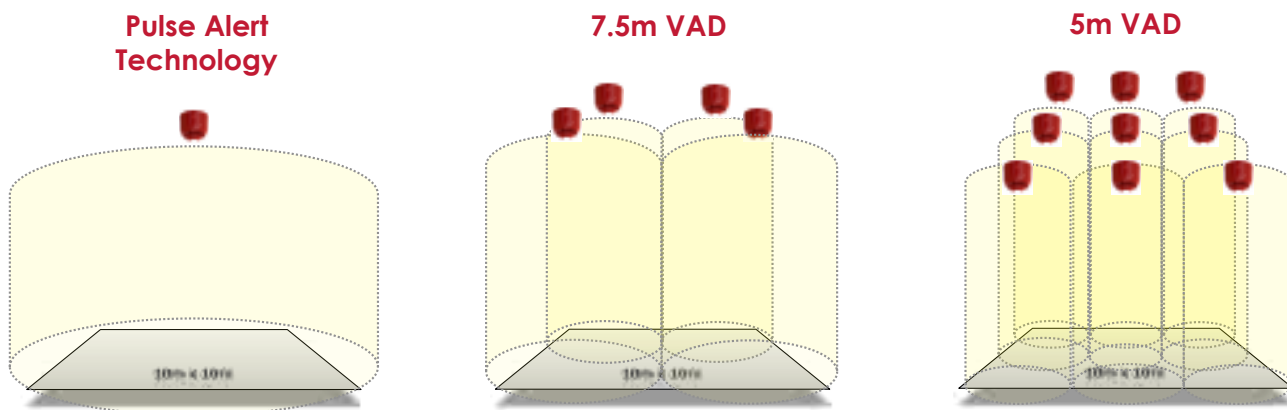
With up to 15m diameter coverage and up to 11.3m x 11.3m square coverage for ceiling and wall mounted versions respectively, Pulse Alert Technology can cover most rooms with a single device. This increased coverage allows fire systems to use the minimum number of devices and therefore maximise the performance of the system.

This is particularly useful for upgrading existing systems as it avoids the need to add additional devices. Fewer devices also reduces the total power consumption, allowing the system to be powered directly from the fire control panel and avoiding unnecessary additional power supplies.

Fewer devices is also more intuitive to end users. Pulse Alert Technology ensures that evacuation signals are clear and unambiguous.

Reduced Number of Devices

With a greater coverage pattern, fewer devices are needed to cover open areas. Sonos Pulse ceiling mount devices have up to 15m coverage diameter, which can cover a 10m x 10m room with a single device. A 7.5m diameter product would require 4 devices to cover the same area; 5m diameter coverage would require 9 devices.

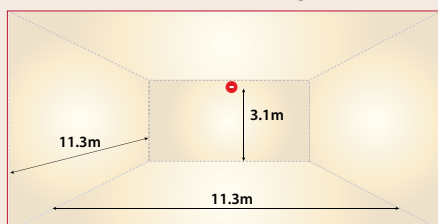


Beacon - Wall

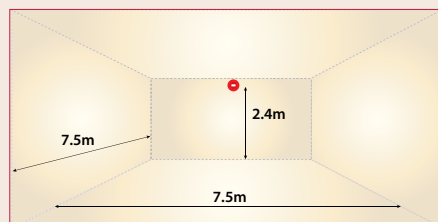
Sonos Pulse Beacon Wall

Sonos Pulse wall mounted Visual Alarm Devices are available as fire beacons or combined sounder beacons.

White Flash EN54-23 Coverage: W-3.1-11.3



Red Flash EN54-23 Coverage: W-2.4-7.5



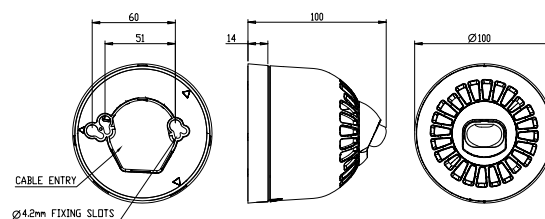
Features

- Conforms to EN54-23/EN54-3
- Pulse Alert Technology
- Body colour: red or white
- Flash colour: red or white
- Wire to base technology
- Simple upgrade
- Synchronised flash
- No surge current
- Weatherproof to IP65

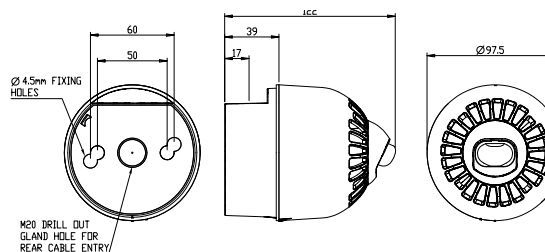
Pulse Alert
TECHNOLOGY



Shallow Base



Deep Base



Specifications

Part	Description	Base	Body Colour	Flash Colour	Voltage	Current @ 0.5Hz	Current @ 1Hz
ESB-5001	Sonos Pulse Wall Beacon	Deep Base	White	White	17-60 VDC	20mA	40mA
ESB-5002	Sonos Pulse Wall Beacon	Shallow Base	White	White	17-60 VDC	20mA	40mA
ESB-5003	Sonos Pulse Wall Beacon	Deep Base	Red	White	17-60 VDC	20mA	40mA
ESB-5004	Sonos Pulse Wall Beacon	Shallow Base	Red	White	17-60 VDC	20mA	40mA
ESD-5001	Sonos Pulse Wall Beacon	Deep Base	White	Red	17-60 VDC	20mA	40mA
ESD-5002	Sonos Pulse Wall Beacon	Shallow Base	White	Red	17-60 VDC	20mA	40mA
ESD-5003	Sonos Pulse Wall Beacon	Deep Base	Red	Red	17-60 VDC	20mA	40mA
ESD-5004	Sonos Pulse Wall Beacon	Shallow Base	Red	Red	17-60 VDC	20mA	40mA

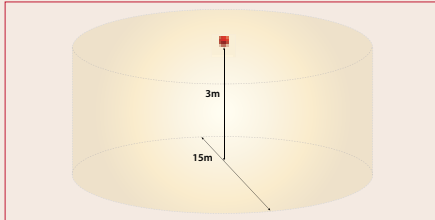
IP Rating: IP65 (deep base) IP21 (shallow base) **Operating Temp:** -25°C to +70°C **Construction:** Flame retardant polycarbonate
Cable Entries: Deep base: 2 x 20mm cable glands **Weight:** 0.24kg (shallow base) 0.29kg (deep base)

Beacon - Ceiling

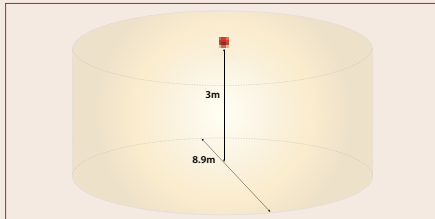
Sonos Pulse Beacon Ceiling

Sonos Pulse ceiling mounted Visual Alarm Devices are available as fire beacons or combined sounder beacons.

White Flash EN54-23 Coverage: C-3-15



Red Flash EN54-23 Coverage: C-3-8.9



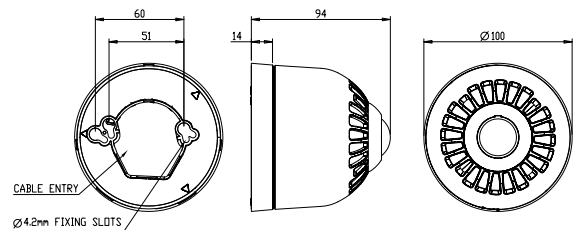
Features

- Conforms to EN54-23/EN54-3
- Pulse Alert Technology
- Body colour: red or white
- Flash colour: red or white
- Wire to base technology
- Simple upgrade
- Synchronised flash
- No surge current
- Weatherproof to IP65

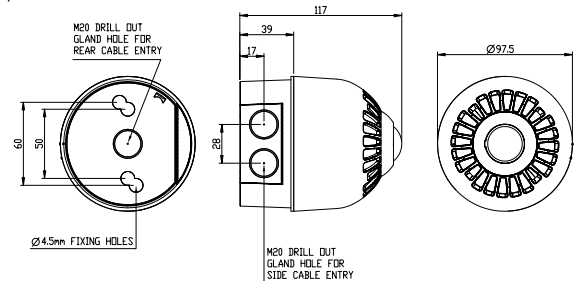
Pulse Alert
TECHNOLOGY



Shallow Base



Deep Base



Specifications

Part	Description	Base	Body Colour	Flash Colour	Voltage	Current @ 0.5Hz	Current @ 1Hz
ESB-5005	Sonos Pulse Ceiling Beacon	Deep Base	White	White	17-60 VDC	20mA	40mA
ESB-5006	Sonos Pulse Ceiling Beacon	Shallow Base	White	White	17-60 VDC	20mA	40mA
ESB-5007	Sonos Pulse Ceiling Beacon	Deep Base	Red	White	17-60 VDC	20mA	40mA
ESB-5008	Sonos Pulse Ceiling Beacon	Shallow Base	Red	White	17-60 VDC	20mA	40mA
ESD-5005	Sonos Pulse Ceiling Beacon	Deep Base	White	Red	17-60 VDC	20mA	40mA
ESD-5006	Sonos Pulse Ceiling Beacon	Shallow Base	White	Red	17-60 VDC	20mA	40mA
ESD-5007	Sonos Pulse Ceiling Beacon	Deep Base	Red	Red	17-60 VDC	20mA	40mA
ESD-5008	Sonos Pulse Ceiling Beacon	Shallow Base	Red	Red	17-60 VDC	20mA	40mA

IP Rating: IP65 (deep base) IP21 (shallow base) **Operating Temp:** -25°C to +70°C **Construction:** Flame retardant polycarbonate

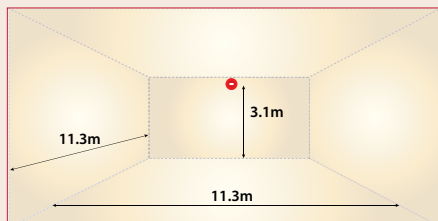
Cable Entries: Deep base: 2 x 20mm cable glands **Weight:** 0.24kg (shallow base) 0.29kg (deep base)

Sounder Beacon - Wall

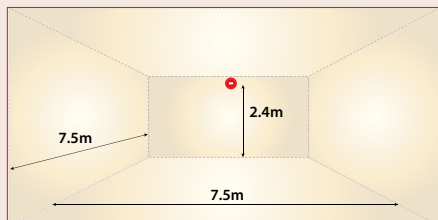
Sonos Pulse Sounder Beacon Wall

Sonos Pulse wall mounted Visual Alarm Devices are available as fire beacons or combined sounder beacons.

White Flash EN54-23 Coverage: W-3.1-11.3



Red Flash EN54-23 Coverage: W-2.4-7.5



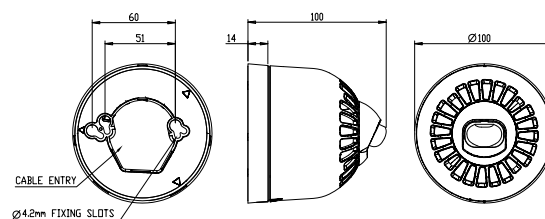
Features

- Conforms to EN54-23/EN54-3
- Pulse Alert Technology
- Body colour: red or white
- Flash colour: red or white
- Wire to base technology
- Simple upgrade
- Synchronised flash
- No surge current
- Weatherproof to IP65

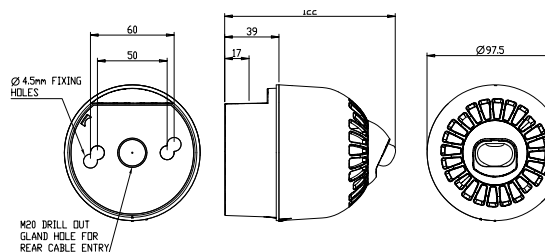
Pulse Alert
TECHNOLOGY



Shallow Base



Deep Base



Specifications

Part	Description	Base	Body Colour	Flash Colour	Audibility at 1m	Voltage	Current @ 0.5Hz	Current @ 1Hz
ESC-5001	Sonos Pulse Wall Sounder Beacon	Deep Base	White	White	97dB(A)	17-60 VDC	25mA	45mA
ESC-5002	Sonos Pulse Wall Sounder Beacon	Shallow Base	White	White	97dB(A)	17-60 VDC	25mA	45mA
ESC-5003	Sonos Pulse Wall Sounder Beacon	Deep Base	Red	White	97dB(A)	17-60 VDC	25mA	45mA
ESC-5004	Sonos Pulse Wall Sounder Beacon	Shallow Base	Red	White	97dB(A)	17-60 VDC	25mA	45mA
ESF-5001	Sonos Pulse Wall Sounder Beacon	Deep Base	White	Red	97dB(A)	17-60 VDC	25mA	45mA
ESF-5002	Sonos Pulse Wall Sounder Beacon	Shallow Base	White	Red	97dB(A)	17-60 VDC	25mA	45mA
ESF-5003	Sonos Pulse Wall Sounder Beacon	Deep Base	Red	Red	97dB(A)	17-60 VDC	25mA	45mA
ESF-5004	Sonos Pulse Wall Sounder Beacon	Shallow Base	Red	Red	97dB(A)	17-60 VDC	25mA	45mA

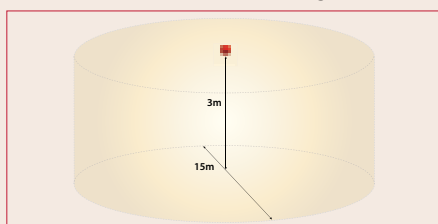
IP Rating: IP65 (deep base) IP21 (shallow base) **Operating Temp:** -25°C to +70°C **Construction:** Flame Retardant Polycarbonate
Cable Entries: Deep Base: 2 x 20mm cable glands **Weight:** 0.24kg (shallow base) 0.29kg (deep base)

Sounder Beacon - Ceiling

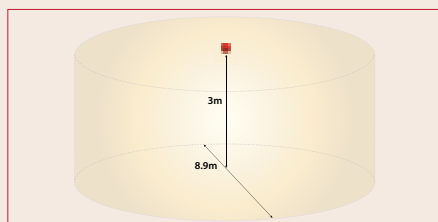
Sonos Pulse Sounder Beacon Ceiling

Sonos Pulse ceiling mounted Visual Alarm Devices are available as fire beacons or combined sounder beacons.

White Flash EN54-23 Coverage: C-3-15



Red Flash EN54-23 Coverage: C-3-8.9



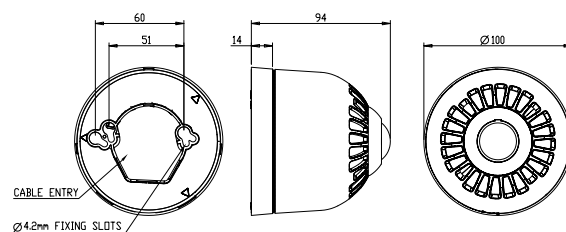
Features

- Conforms to EN54-23/EN54-3
- Pulse Alert Technology
- Body colour: red or white
- Flash colour: red or white
- Wire to base technology
- Simple upgrade
- Synchronised flash
- No surge current
- Weatherproof to IP65

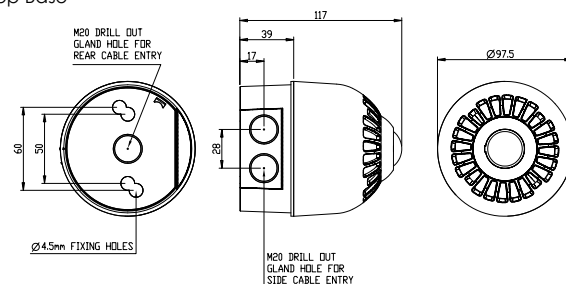
Pulse Alert
TECHNOLOGY



Shallow Base



Deep Base



Specifications

Part	Description	Base	Body Colour	Flash Colour	Audibility at 1m	Voltage	Current @ 0.5Hz	Current @ 1Hz
ESC-5005	Sonos Pulse Ceiling Sounder Beacon	Deep Base	White	White	Up to 97dB(A)	17-60 VDC	25mA	45mA
ESC-5006	Sonos Pulse Ceiling Sounder Beacon	Shallow Base	White	White	Up to 97dB(A)	17-60 VDC	25mA	45mA
ESC-5007	Sonos Pulse Ceiling Sounder Beacon	Deep Base	Red	White	Up to 97dB(A)	17-60 VDC	25mA	45mA
ESC-5008	Sonos Pulse Ceiling Sounder Beacon	Shallow Base	Red	White	Up to 97dB(A)	17-60 VDC	25mA	45mA
ESF-5005	Sonos Pulse Ceiling Sounder Beacon	Deep Base	White	Red	Up to 97dB(A)	17-60 VDC	25mA	45mA
ESF-5006	Sonos Pulse Ceiling Sounder Beacon	Shallow Base	White	Red	Up to 97dB(A)	17-60 VDC	25mA	45mA
ESF-5007	Sonos Pulse Ceiling Sounder Beacon	Deep Base	Red	Red	Up to 97dB(A)	17-60 VDC	25mA	45mA
ESF-5008	Sonos Pulse Ceiling Sounder Beacon	Shallow Base	Red	Red	Up to 97dB(A)	17-60 VDC	25mA	45mA

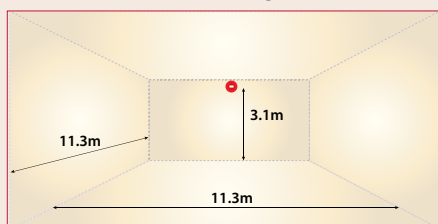
IP Rating: IP65 (deep base) IP21 (shallow base) **Operating Temp:** -25°C to +70°C **Construction:** Flame Retardant Polycarbonate
Cable Entries: Deep Base: 2 x 20mm cable glands **Weight:** 0.24kg (shallow base) 0.29kg (deep base)

High Output Sounder Beacon

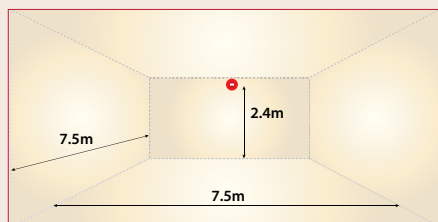
Nexus Pulse 105 & 110

Nexus Pulse wall mounted visual alarm devices are available as combined sounder beacons.

White Flash EN54-23 Coverage: W-3.1-11.3 (TBC)



Red Flash EN54-23 Coverage: W-2.7-7.64



Features

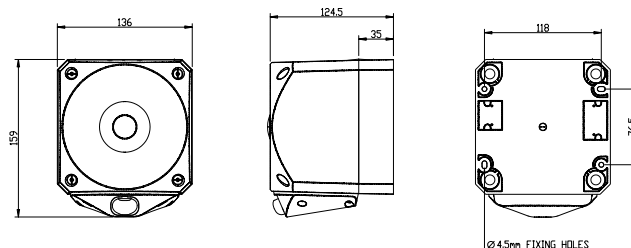
- Conforms to EN54-23/EN54-3
- Pulse Alert Technology
- Body colour: red
- Flash colour: red or white
- Wire to base technology
- Simple upgrade
- Synchronised flash
- No surge current
- Weatherproof to IP66

Pulse Alert
TECHNOLOGY

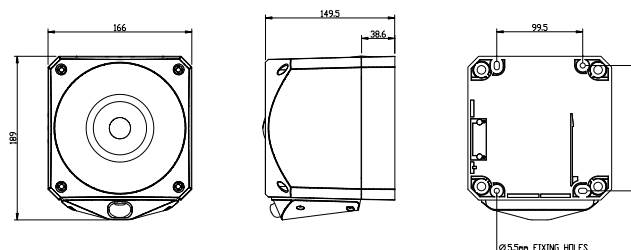


Coming Soon

Nexus Pulse 105



Nexus Pulse 110



Specifications

Part	Description	Body Colour	Flash Colour	Audibility at 1m	Voltage	Current @ 0.5Hz	Current @ 1Hz
ENC-6001	Nexus Pulse 105 Sounder Beacon	Red	White	105 dB(A)	17-60 VDC	50mA	70mA
ENC-6002	Nexus Pulse 110 Sounder Beacon	Red	White	110 dB(A)	17-60 VDC	65mA	85mA
END-6001	Nexus Pulse 105 Sounder Beacon	Red	Red	105 dB(A)	17-60 VDC	50mA	70mA
END-6002	Nexus Pulse 110 Sounder Beacon	Red	Red	110 dB(A)	17-60 VDC	65mA	85mA

IP Rating: IP66 **Rating:** Continuous **Frequency:** See tone table **Operating Temp:** -25°C to +70°C
Cable Entries: 5 **Weight:** Nexus 105: 0.8kg; Nexus 110: 1.2kg

EN54-3 Sounders



When it comes to protecting lives and livelihoods, trust is everything. Independently certified to EN54-3, Klaxon's Sonos and Nexus ranges of fire notification sounders are trusted and used the world-over, with a proven pedigree of performing when it matters most.

Sounder

Sonos Sounder

Electronic sounder certified to EN54-3.

With the TimeSaver base, connections are made to the base during the initial wiring phase which results in faster and more reliable installation. The sounder head 'twists and clicks' into the base on commissioning, avoiding the wiring and connection problems associated with traditional sounders.

With a choice of 32 tones including all the major international standards, the Sonos Sounder has universal acceptance.

Deep base units have weatherproof protection to IP65 and can be used in all locations both indoors and outdoors.

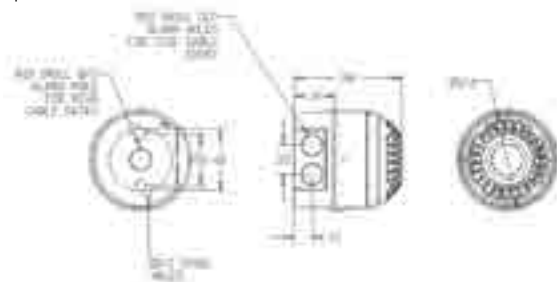
Sonos Sounder units are available in either red or white and with a choice of deep or shallow TimeSaver base.

Features

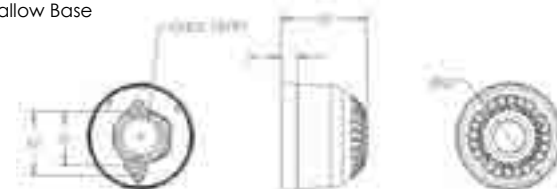
- Approved to EN54-3
- Wide voltage range
- Simple 'First Fix' installation
- 2 Alarm stages
- 32 tones
- Tone and volume can be preset or adjusted off-base
- Weatherproof to IP65 (deep base units)
- Synchronised alarm tones
- Volume control - Typical 8dB



Deep Base



Shallow Base



Specifications

Combined Part No.	Base Part No.	Head Part No.	Colours	Audibility at 1m	Tones	Voltage	Current (tone dependent)
PSS-0003	PSO-0001 Shallow Base	PSS-0084	Red	Up to 106dB (A)	32	9-60V DC	4-41mA
PSS-0039	PSO-0006 Shallow Base	PSS-0089	White	Up to 106dB (A)	32	9-60V DC	4-41mA
PSS-0020	PSO-0003 Deep Base	PSS-0084	Red	Up to 106dB (A)	32	9-60V DC	4-41mA
PSS-0050	PSO-0007 Deep Base	PSS-0089	White	Up to 106dB (A)	32	9-60V DC	4-41mA

IP Rating: IP65 (deep base) IP21 (shallow base) **Operating Temp:** -25°C to +70°C **Construction:** Flame retardant polycarbonate

Cable Entries: Deep base: 2 x 20mm cable glands **Weight:** 0.22kg (shallow base) 0.25kg (deep base)

Compliance: EN54 3 Type A (shallow base) EN54-3 Type B (deep base)

Base Sounder

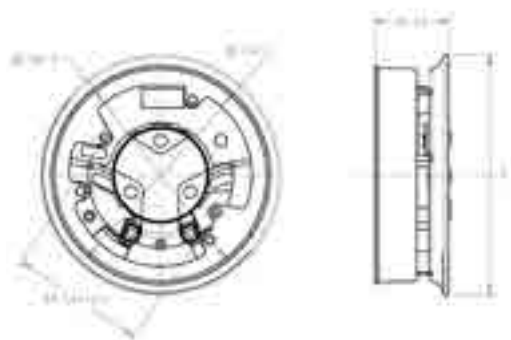
Low profile sounder is certified to EN54-3.

Its primary application is to be installed under proprietary smoke and heat detectors to provide both detection and alarm at the same point, reducing wiring and installation costs. With the optional cover it can also be used as a stand alone sounder.

A choice of colours is available, including white and cream, to coordinate with various detectors.

Features

- Approved to EN54-3
- Two large cable entries for quick and simple installation
- Designed to complement a variety of detectors
- 32 distinct alarm tones
- Choice of colours
- Cover plates available for use as sounder only
- Volume control for maximum flexibility - 20dB



Specifications

Part No.	Description	Colours	Audibility at 1m	Tones	Voltage	Current (tone dependent)
PBS-0003	Base sounder	White	Up to 95dB (A)	32	17-60V DC	2 - 7mA
PBS-0009	Base sounder	Cream	Up to 95dB (A)	32	17-60V DC	2 - 7mA
PBS-0011	Base sounder	White cover	-	-	-	-
PBS-0014	Base sounder	Cream cover	-	-	-	-

IP Rating: Indoor **Operating Temp:** -10°C to +55°C **Construction:** High Impact Polycarbonate **Cable Entries:** N/A **Weight:** 0.1kg
Compliance: EN54-3 Type A

High Output Sounder

Nexus 105/110/120 Sounder

High output sounders certified to EN54.

Connections are made to the base during the initial wiring phase which results in faster and more reliable installation. In addition, the head is fixed by quarter turn fasteners enabling faster installation and accurate seal compression for weatherproofing.

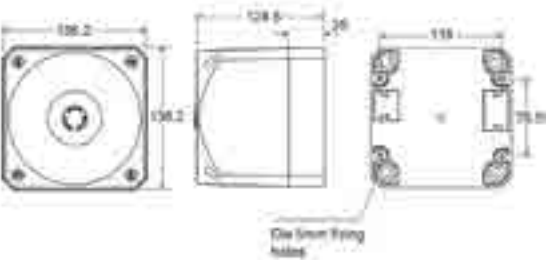
IP66 as standard means that Nexus can be installed in almost any location.

Features

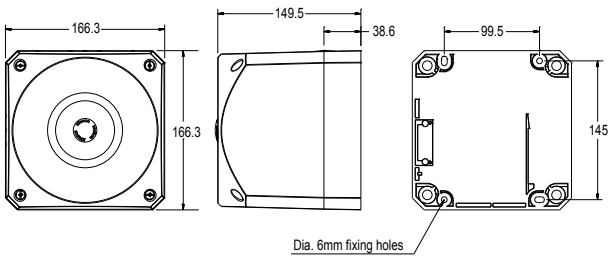
- Approved to EN54-3
- 105dB, 110dB and 120dB sound output variants
- Three alarm stages
- First-fix, wire to base technology
- IP66 rated
- Volume control for greater flexibility - 20dB
- 64 tones



Nexus 105



Nexus 110/120



Specifications

Part No.	Description	Colours	Audibility at 1m	Tones	Voltage	Current (tone dependent)
PNS-0001	Nexus 105	Red	105dB (A)	64	10-60V DC	8-40mA
PNS-0013	Nexus 110	Red	110dB (A)	64	10-60V DC	10-50mA
PNS-0005	Nexus 120	Red	120dB (A)	64	10-60V DC	120-550mA

IP Rating: IP66 **Operating Temp:** -25°C to +70°C **Cable Entries:** 5 **Weight:** 105dB Sounder - 0.7kg; 110dB Sounder - 1.1Kg; 120dB Sounder - 1.8Kg
Compliance: EN54-3 Type B

Fire Bell

The Fire Bell is a motorised bell designed for fire alarm applications. Its low current consumption and universally recognisable alarm sound makes it an ideal choice for many alarm systems.

Designed for ease of installation, it features a robust steel gong.

Units are finished in red and are available in two gong sizes: 6" and 8".

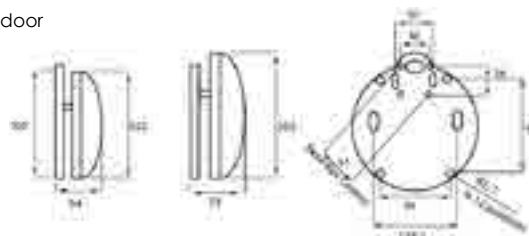
Depending on quantity, labels can be branded with a customer's name and logo.

Features

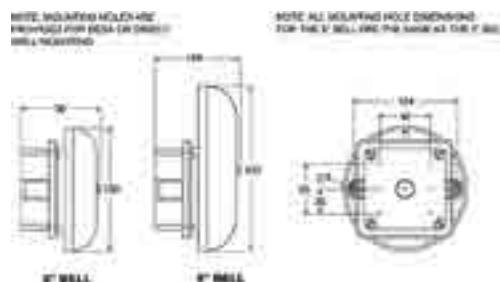
- Approved to EN54-3
- Low current consumption
- Universally recognisable sound
- Diode polarised
- Choice of gong sizes (6" and 8")



Indoor



Weatherproof



Specifications

Part No.	Gong Size	Audibility at 1m	Voltage	Current
TAA-0007	6"	Up to 95dB (A)	19-28V DC	20mA
TAA-0015	8"	Up to 98dB (A)	19-28V DC	20mA
TAA-0017 Weatherproof	6"	Up to 95dB (A)	19-28V DC	20mA
TAA-0020 Weatherproof	8"	Up to 98dB (A)	19-28V DC	20mA

IP Rating: IP21C, IP33C (weatherproof version) **Rating:** Continuous **Frequency:** N/A **Operating Temp:** -10°C to +55°C
Dome Construction: Steel **Weight:** 0.92kg (6") & 1.27kg (8") **Compliance:** EN54-3 Type A, EN54-3 Type B (weatherproof version)

Voice Signalling



Voice signalling units combine fire sounder signals with clear, synchronised voice messages to enhance communication and aid evacuation. Klaxon Signals range of voice sounders have the added benefit of being able to promptly evacuate untrained personnel or visitors via clear and concise instructions.

Sonos Voice

The Sonos voice range combines normal sounder signals with a clear, synchronised voice message to help reduce confusion and distress during an active alarm.

Units are available with 7 pre-programmed messages, selected from an extensive message library covering almost any conceivable application. Bespoke messages are also available on request.

These sounders can be used in small to medium fire alarm system installations where up to 7 messages can be transmitted over two wires via a message controller. (See page 13.)

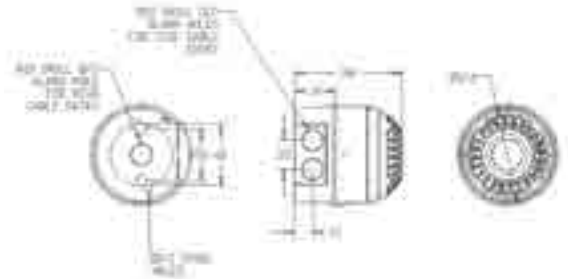
Both Sonos voice enhanced variants are available as sounders or sounder-beacons in either red or white, with shallow or deep base (IP65) options for indoor and outdoor applications.

Features

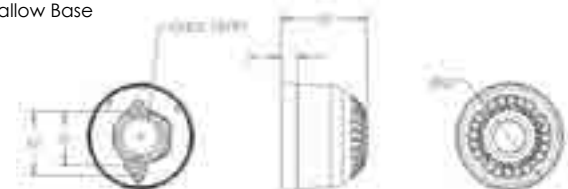
- Choice of up to 7 messages
- 106dB (A) tone and 80dB (A) message outputs
- Extensive message library or bespoke messages available
- Automatic synchronisation
- Easily retro-fits to existing installations
- Capable of playing up to 7 messages over two wires via a message controller*
- Includes alert tone
- High efficiency LED Beacon option



Deep Base



Shallow Base



Specifications

Part No.	Colours	Audibility at 1m Dimensions:	Tones	Voltage	Current (tone dependent)	Messages
PSV-0010 shallow base	Red	Up to 106dB (A)	32	24V DC	26mA (max)	3
PSV-0009 deep base	Red	Up to 106dB (A)	32	24V DC	26mA (max)	3
PSV-0012 shallow base	White	Up to 106dB (A)	32	24V DC	26mA (max)	3
PSV-0011 deep base	White	Up to 106dB (A)	32	24V DC	26mA (max)	3
PSV-0013 deep base	Red base, red lens	Up to 106dB (A)	32	24V DC	30mA (max)	3
PSV-0014 shallow base	Red base, red lens	Up to 106dB (A)	32	24V DC	30mA (max)	3
PSV-0015 deep base	White base, clear lens/red LED	Up to 106dB (A)	32	24V DC	30mA (max)	3
PSV-0016 shallow base	White base, clear lens/red LED	Up to 106dB (A)	32	24V DC	30mA (max)	3

*Note: PNV-0022 message controller for fire alarm systems; PNV-0004 message controller for gas extinguishing systems

IP Rating: IP65 (deep base) IP21 (shallow base) **Operating Temp:** -25°C to +70°C **Construction:** Flame Retardant Polycarbonate
Cable Entries: Deep base: 2 x 20mm cable glands **Weight:** 0.22kg (shallow base) 0.25kg (deep base) **Compliance:** EN60950

High Output Voice Signalling

Nexus Voice

Nexus voice sounders combine normal sounder signals with a clear, synchronised voice message to help reduce confusion and distress during an active alarm.

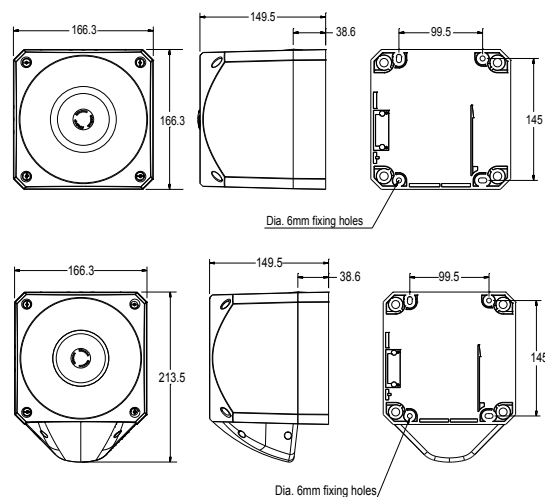
Standard units are available with 7 pre-programmed messages. Alternative messages can be selected from an extensive message library covering almost any conceivable application. Customised messages are also available on request.

All Nexus voice sounders have a USB port that allows special messages in WAV format to be downloaded onto the sounder from any PC, providing users with the flexibility of adding/removing messages in-field.

Combined with an LED or Xenon beacon the Nexus sounder can form part of a DDA compliant system giving a clear voice message, powerful alarm tone and high output beacon for clear and effective warning.

Features

- Choice of up to 7 messages via three volt free contacts
- Message controller version also available*
- Extensive message library or bespoke messages available
- Download messages in-field via built in USB port
- 110dB (A) tone and 90dB (A) message outputs
- Automatic synchronisation
- Robust construction; IP66 rated for outdoor environments
- Volume control - 20dB
- Voltage 24V DC
- 64 tones



Specifications

Part No.	Lens Colours	Beacon Type	Sounder Current	Beacon Current
PNV-0001	-	Sounder only	30mA (max)	-
PNV-0006	Red	LED	30mA (max)	18mA/65mA**
PNV-0007	Amber lens, beacon	LED	30mA (max)	18mA/65mA**
PNV-0008	Green	LED	30mA (max)	18mA/65mA**
PNV-0009	Blue	LED	30mA (max)	18mA/65mA**
PNV-0010	Clear	LED	30mA (max)	18mA/65mA**
PNV-0003*	Red	LED	30mA (max)	18mA/65mA**
PNV-0011	Red	Xenon	30mA (max)	330mA@24V DC
PNV-0012	Amber	Xenon	30mA (max)	330mA@24V DC
PNV-0013	Green lens, beacon	Xenon	30mA (max)	330mA@24V DC
PNV-0014	Blue	Xenon	30mA (max)	330mA@24V DC
PNV-0015	Clear	Xenon	30mA (max)	330mA@24V DC

* For use with a message controller. ** Flashing/Static current consumption figures.

IP Rating: IP66 **Rating:** Continuous **Frequency:** See tone table **Operating Temp:** -25°C to +70°C **Cable Entries:** 5

Weight: Sounder 1.1kg; Sounder beacon 1.2kg

Message Controllers

When combined with a message controller voice sounders can transmit upto 4 messages over the same sounder circuit with no additional wiring.

Message Controller for Fire Alarm Systems

Alert, Evacuate, Test & All Clear messages for each stage of alarm.

Message Controller for Gas Extinguishing Systems

Alert, Gas Release Imminent, Gas Released and Gas Hold messages for each stage of alarm.

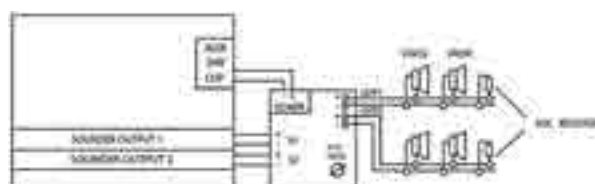
Message controllers have two status indication LED's; a 'System Health' indicator which is green in colour and a 'fault indicator' which is amber in colour.

Features

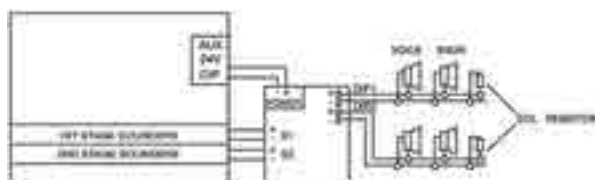
- Acts as a communication medium between the alarm panel and voice sounders
- No additional wiring
- Fully synchronised voice messages
- System health indicators
- Simple operation
- Compatible with any of the Sonos Voice Sounders and the Nexus red LED voice sounder beacon (PNV-0003)



Fire Alarm System



Gas Extinguishing System



Specifications

Part No.	Description	Messages	Voltage	Quiescent Current	Alarm Current	Sounder Load
PNV-0022	Fire Alarm System	4+*	17-28V DC	16mA	45mA	2A
PNV-0004	Gas Extinguishing Alarm System	4+*	17-28V DC	16mA	45mA	2A

* An additional default message can be played in the event of a power loss or interface fault.

IP Rating: Indoor **Operating Temp:** -10°C to +55°C **Construction:** Polycarb flame retardant **Weight:** 0.48Kg
Dimensions: 131mm W x 178mm H x 60.5mm D

Beacons & Sounder Beacons



Klaxon Signals offers a range of LED and Xenon-based beacons and sounder beacons. Available with a choice of lens colours and sound output options, Klaxon's Sonos and Nexus beacons and sounder beacons are suitable for a wide variety of applications.

Sonos Beacon

Beacon with the TimeSaver base, connections are made to the base during the initial wiring phase which results in faster and more reliable installation. The beacon head 'twists and clicks' into the base on commissioning, avoiding the wiring and connection problems associated with traditional alarm devices.

Deep base units have weatherproof protection to IP65 and can be used in all locations both indoors and outdoors. The Sonos Beacon utilises a full faced, translucent case which provides a much larger lens area and a greater spread of light.

Sonos Beacon units have a deep or shallow red colour base as standard and are available with a red or amber lens.

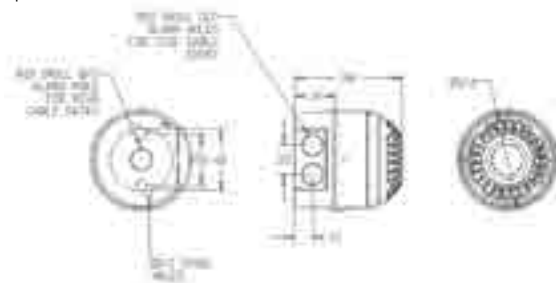
Features

- 2J Xenon beacon or high efficiency LED beacon
- Simple 'First Fix' installation (no second fix wiring)
- Weatherproof to IP65 (deep base units)
- Synchronised flash
- White base option

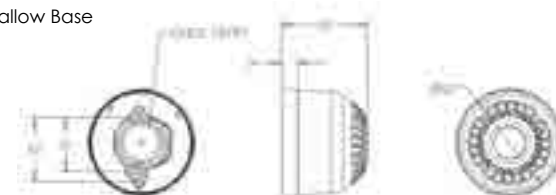
Lens Colour Options



Deep Base



Shallow Base



Specifications

Part No.	Base	Colours	Light Source	Voltage	Current
PSB-0009	Red shallow base	Red lens	LED	17-60V DC	5mA
PSB-0017	Red deep base	Red lens	LED	17-60V DC	5mA
PSB-0026	Red shallow base	Amber lens	LED	17-60V DC	5mA
PSB-0031	Red deep base	Amber lens	LED	17-60V DC	5mA
PSB-0042	White shallow base	Clear lens, Red LED	LED	17-60V DC	5mA
PSB-0045	White deep base	Clear lens, Red LED	LED	17-60V DC	5mA
PSB-0065	Red shallow base	Red lens	2J Xenon	10-60V DC	130 mA @ 24V DC
PSB-0062	Red deep base	Red lens	2J Xenon	10-60V DC	130 mA @ 24V DC
PSB-0090	Red shallow base	Amber lens	2J Xenon	10-60V DC	130 mA @ 24V DC
PSB-0064	Red deep base	Amber lens	2J Xenon	10-60V DC	130 mA @ 24V DC
PSB-0068	Red shallow base	Clear lens	2J Xenon	10-60V DC	130 mA @ 24V DC
PSB-0091	Red deep base	Clear lens	2J Xenon	10-60V DC	130 mA @ 24V DC
PSB-0107	Red shallow base	Blue Lens	2J Xenon	10-60V DC	130 mA @ 24V DC
PSB-0063	Red deep base	Blue Lens	2J Xenon	10-60V DC	130 mA @ 24V DC
PSB-0109	Red shallow base	Green Lens	2J Xenon	10-60V DC	130 mA @ 24V DC
PSB-0108	Red deep base	Green Lens	2J Xenon	10-60V DC	130 mA @ 24V DC

IP Rating: IP65 (deep base) IP21 (shallow base) **Operating Temp:** -25°C to +70°C (LED) -25°C to +55°C (Xenon)

Construction: Flame retardant polycarbonate **Cable Entries:** 2 x 20mm cable glands (deep base) **Weight:** 0.22kg (shallow base) 0.25kg (deep base)

Sounder Beacon

Sonos Sounder Beacon

Electronic sounder beacon certified to EN54.

With the TimeSaver base, connections are made to the base during the initial wiring phase which results in faster and more reliable installation. The sounder head 'twists and clicks' into the base on commissioning, avoiding the wiring and connection problems associated with traditional sounders.

With a choice of 32 tones including all the major international standards, the Sonos Sounder Beacon has universal acceptance.

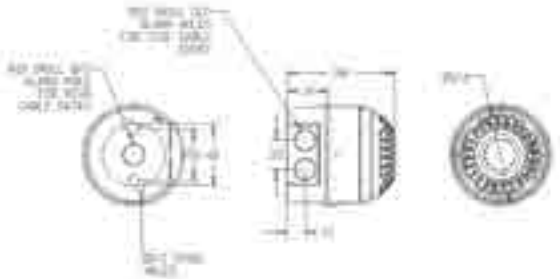
Features

- Low current LED beacon
- Simple 'First Fix' installation
- Weatherproof to IP65 (deep base units)
- Choice of lens colours
- Sounder and beacon can be controlled separately
- Tone and volume can be preset or adjusted off-base - 20dB

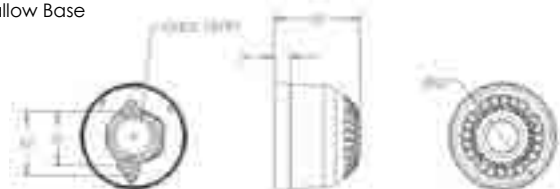
Lens Colour Options



Deep Base



Shallow Base



Specifications

Combined Part No.	Base Part No.	Head Part No.	Audibility at 1m	Tones	Voltage	Sounder Current
PSC-0047	PSO-0001 Red shallow base	PSC-0045 Red lens	Up to 106dB (A)	32	17-60V DC	9-50mA
PSC-0050	PSO-0001 Red shallow base	PSC-0054 Amber lens	Up to 106dB (A)	32	17-60V DC	9-50mA
PSC-0042	PSO-0003 Red deep base	PSC-0045 Red lens	Up to 106dB (A)	32	17-60V DC	9-50mA
PSC-0049	PSO-0003 Red deep base	PSC-0054 Amber lens	Up to 106dB (A)	32	17-60V DC	9-50mA
PSC-0059	PSO-0007 White deep base	PSC-0051 Clear lens, Red LED	Up to 106dB (A)	32	17-60V DC	9-50mA

Other colours/combinations are available on request

IP Rating: IP65 (deep base) IP21 (shallow base) **Operating Temp:** -25°C to +70°C **Construction:** Flame retardant polycarbonate
Cable Entries: Deep base: 2 x 20mm cable glands **Weight:** 0.22kg (shallow base) 0.25kg (deep base)
Compliance: EN54 3 Type A (shallow base) EN54 3 Type B (deep base)

High Output Sounder Beacon

Nexus 105/110/120 Sounder Beacon

High output sounder beacons certified to EN54.

Connections are made to the base during the initial wiring phase which results in faster and more reliable installation. In addition, the head is fixed by quarter turn fasteners avoiding the need to screw up four individual screws thus enabling faster installation and accurate seal compression for weatherproofing.

The Nexus Sounder Beacon is available with a high efficiency LED or high output xenon beacon. The combination of a powerful sounder and high output beacon ensures a very effective audio-visual signal. 110dB and 120dB units, as well as AC variants, are also available.

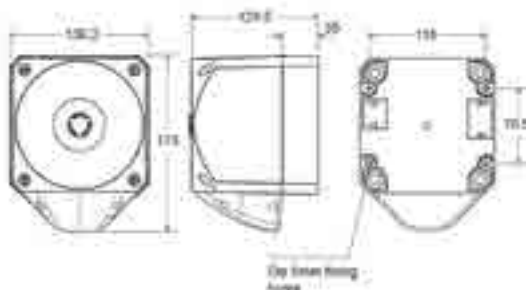
Features

- 5J xenon or high efficiency LED beacon option
- Quarter turn fasteners for ease of installation
- First-fix, wire to base technology
- IP66 rated
- Three alarm stages
- Low in-rush current (LED only)
- Static/flashing mode (LED only)
- Volume control for greater flexibility - 20dB
- 64 tones
- Voltage 10-60V DC

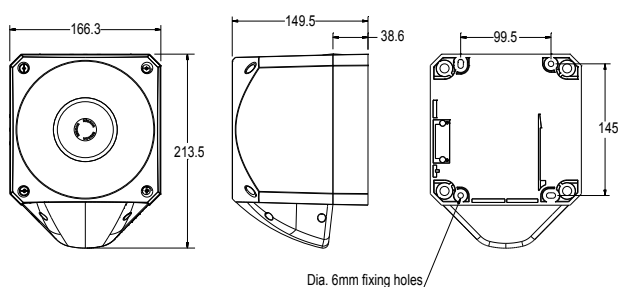
Lens Colour Options



Nexus 105



Nexus 110/120



Specifications

105dB Part No.	110dB Part No.	120dB Part No.	Lens Colour	Beacon Type	Beacon Current	105db Sounder Current	110db Sounder Current	120db Sounder Current
PNC-0001	PNC-0013	PNC-0003	Red	Xenon	330mA@24V DC	8-40mA	10-50mA	120-550mA
PNC-0002	PNC-0015	PNC-0004	Amber	Xenon	330mA@24V DC	8-40mA	10-50mA	120-550mA
PNC-0020	PNC-0021	PNC-0022	Clear	Xenon	330mA@24V DC	8-40mA	10-50mA	120-550mA
PNC-0043	PNC-0050	PNC-0057	Blue	Xenon	330mA@24V DC	8-40mA	10-50mA	120-550mA
PNC-0041	PNC-0048	PNC-0055	Green	Xenon	330mA@24V DC	8-40mA	10-50mA	120-550mA
PNC-0024	PNC-0029	PNC-0035	Red	LED	18mA/65mA**	8-40mA	10-50mA	120-550mA
PNC-0028	PNC-0034	PNC-0039	Amber	LED	18mA/65mA**	8-40mA	10-50mA	120-550mA
PNC-0045	PNC-0052	PNC-0059	Clear	LED	18mA/65mA**	8-40mA	10-50mA	120-550mA
PNC-0047	PNC-0054	PNC-0061	Blue	LED	18mA/65mA**	8-40mA	10-50mA	120-550mA
PNC-0046	PNC-0053	PNC-0060	Green	LED	18mA/65mA**	8-40mA	10-50mA	120-550mA

** Flashing/Static current consumption figures.

IP Rating: IP66 **Rating:** Continuous **Frequency:** See Tone Table **Operating Temp:** -25°C to +70°C **Cable Entries:** 5 **Compliance:** EN54-3 Type B

Weight: Nexus 105: 0.8kg; Nexus 110: 1.2kg; Nexus 120: 2.0kg

Current Sounder: Nexus 105: 8-40mA; Nexus 110: 10-50mA; Nexus 120: 120-550mA

Intrinsically Safe Signalling



Klaxon offers a range of intrinsically safe sounders, beacons and sounder beacons for use in hazardous areas. Intrinsically safe products work on the principle of restricting the amount of electrical energy, in order to prevent ignition from heat or electrical sparks.

Syrex IS Range

The Syrex IS Sounder is an intrinsically safe alarm sounder which provides an audible warning signal in hazardous area applications.

With three alarm stages and a low current consumption, the Syrex IS Sounder is ideal for both fire and process control applications.

The Syrex IS Sounder needs to be used with a galvanic isolator specified by the system certificates.

Features

- Rated for Category 1
- ATEX approved
- II 1G EEx ia IIC T4
- Choice of 49 tones
- Choice of lens colours
- Auto synchronised sound output
- ABS flame retardant UL94V0 & 5VA housing
- Weatherproof to IP65
- Volume control
- Voltage 6-28V DC

Lens Colour Options



Specifications

Part No.	Description	Lens Colours	Audibility at 1m (tone dependent)	Tones	Current (tone dependent)
TCA-0023	IS Sounder	-	Up to 100dB (A)	49	25mA typical
TCA-0029	IS-SB Sounder Beacon	Red	Up to 100dB (A)	49	48mA typical
TCA-0037	IS-SB Sounder Beacon	Amber	Up to 100dB (A)	49	48mA typical
TCA-0038	IS-SB Sounder Beacon	Blue	Up to 100dB (A)	49	48mA typical
TCA-0039	IS-SB Sounder Beacon	Green	Up to 100dB (A)	49	48mA typical
TCA-0026	IS-XN Beacon	Red	N/A	N/A	25mA typical
TCA-0033	IS-XN Beacon	Amber	N/A	N/A	25mA typical
TCA-0034	IS-XN Beacon	Blue	N/A	N/A	25mA typical
TCA-0067	IS-XN Beacon	Green	N/A	N/A	25mA typical

Accessories

Part No.	Accessories
TCA-0042	Single Channel Galvanic Isolator
TCA-0066	Dual Channel Galvanic Isolator
TCA-0065	IS DIN Rail Enclosure – will accept 2 x isolators

For a full list of the certificate numbers relating to this product, please contact Klaxon Signals directly.

IP Rating: IP65 **Frequency:** Flash rate 2Hz or 1Hz (double flash) **Operating Temp:** -40°C to +60°C

Construction: High Impact ABS Flame Retardant **Cable Entries:** 2 **Weight:** 0.35kg

Self Contained Fire Alarms



Many applications, such as small retail, industrial or temporary buildings, can benefit from stand alone, self-contained fire alarms. The Klaxalarm Terrier is an ideal solution, whether used as a temporary alarm when the main fire alarm is under maintenance, or as a stand-alone alarm system in its own right.

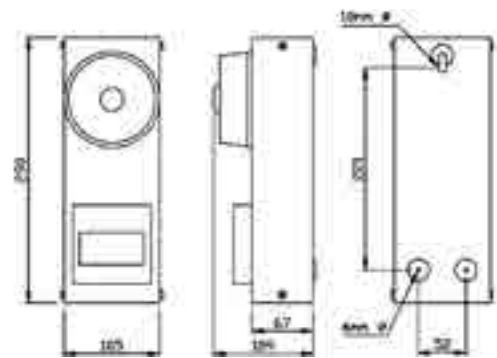
Klaxalarm Terrier

The Klaxalarm Terrier is a stand alone, self-contained fire alarm designed for use in small retail, industrial or temporary buildings as well as construction sites, camp sites or marquees. In addition it can be used as a temporary alarm when the main fire alarm system is under maintenance.

Several units can be interlinked to provide additional coverage so that when one call point is activated, all of the other units sound. When fitted with LR14 batteries, these units will operate in standby mode for over 3 years. An audible warning is emitted when the battery power level becomes low.

Features

- 98dB (A) Sounder
- Battery operated unit
- Combined call point and sounder
- Rugged metal construction
- Simple to install and operate
- Units can be linked to form a complete system
- Low battery warning
- Resets with a simple key



Specifications

Part No.	Colours	Audibility (tone) at 1m (typical)	Tones (Up to)	Voltage (50/60Hz)	Current (tone dependent)
TBA-0003	Red	Up to 98dB (A)	3	6x LR14 batteries	N/A

IP Rating: Indoor Operating Temp: -15°C to +45°C Construction: Steel Case Cable Entries: N/A Weight: 1.5kg

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