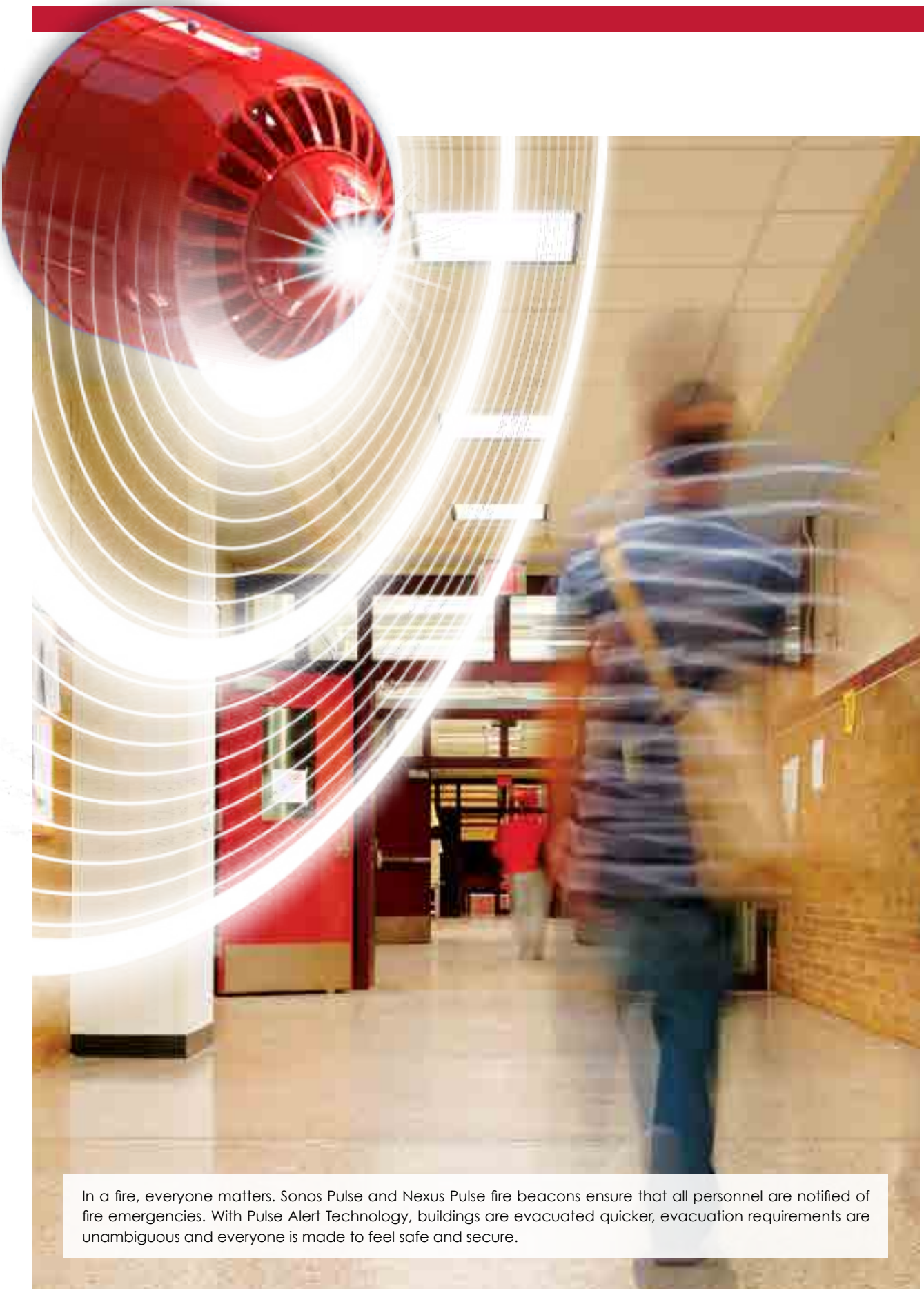
EN54-23 Beacons & Sounder Beacons



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.

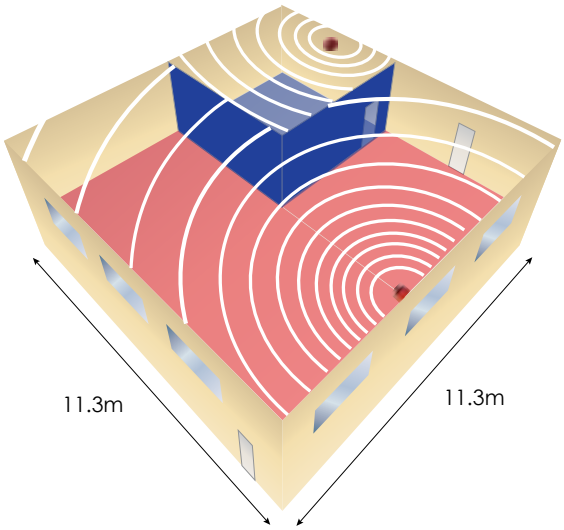
Evacuate Everyone

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.

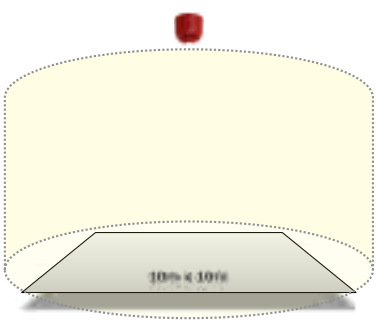
This is particularly useful for upgrading existing systems as it avoids the need to add additional devices. Fewer devices also reduces the total power consumption, allowing the system to be powered directly from the fire control panel and avoiding unnecessary additional power supplies.

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

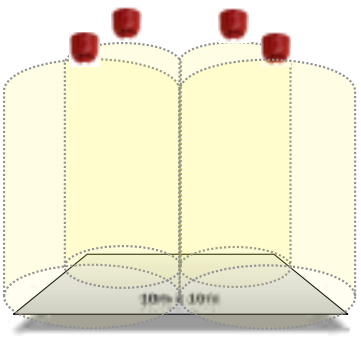
Reduced Number of Devices

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.

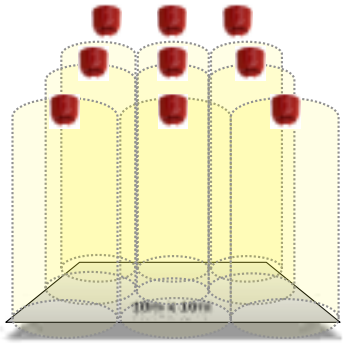
Pulse Alert Technology



7.5m VAD



5m VAD

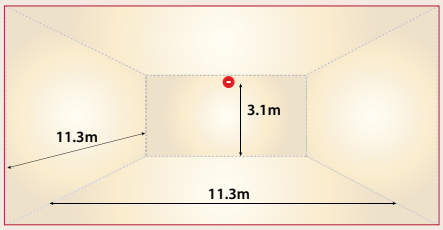


Beacon - Wall

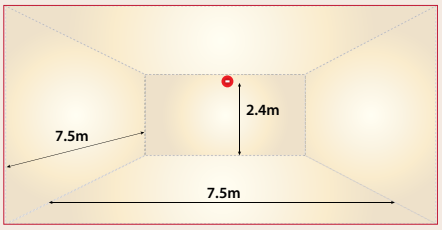
Sonos Pulse Beacon Wall

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



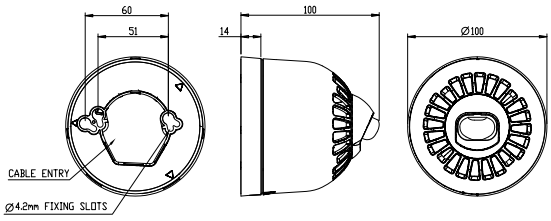
Features

- 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

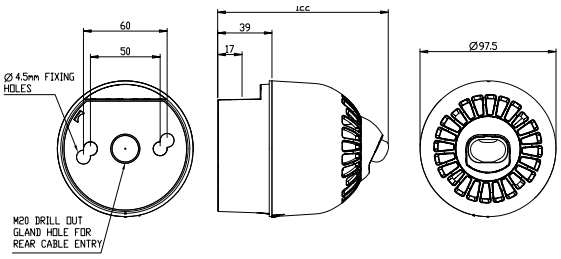
Pulse Alert TECHNOLOGY



Shallow Base



Deep Base



Specifications

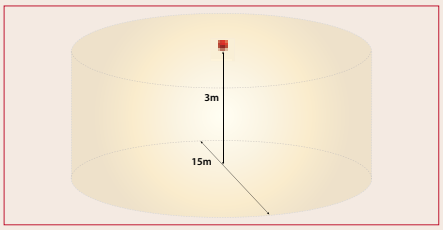
Part	Description	Base	Body Colour	Flash Colour	Voltage	Current @ 0.5Hz	Current @ 1Hz
ESB-5001	Sonos Pulse Wall Beacon	Deep Base	White	White	17-60 VDC	20mA	40mA
ESB-5002	Sonos Pulse Wall Beacon	Shallow Base	White	White	17-60 VDC	20mA	40mA
ESB-5003	Sonos Pulse Wall Beacon	Deep Base	Red	White	17-60 VDC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

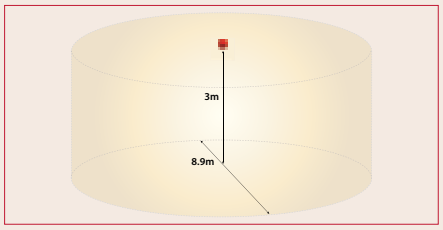
Sonos Pulse Beacon Ceiling

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



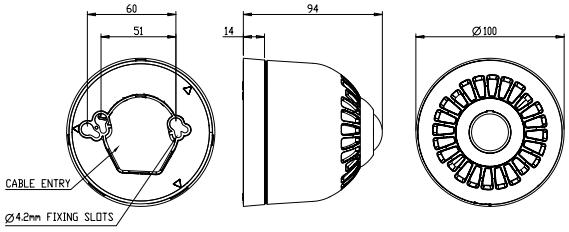
Features

- 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

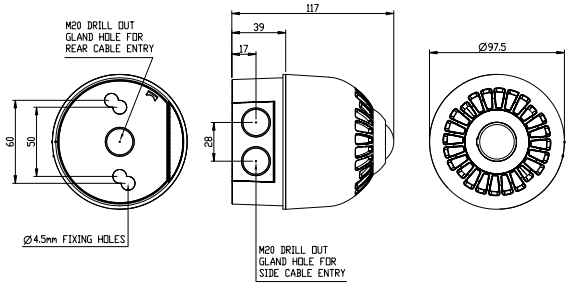
Pulse Alert TECHNOLOGY



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

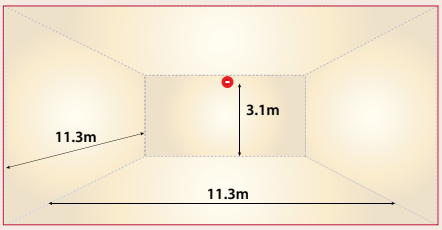
IP Rating: IP65 (deep base) IP21 (shallow base) **Operating Temp:** -25°C to +70°C **Construction:** Flame retardant polycarbonate
Cable Entries: Deep base: 2 x 20mm cable glands **Weight:** 0.24kg (shallow base) 0.29kg (deep base)

Sounder Beacon - Wall

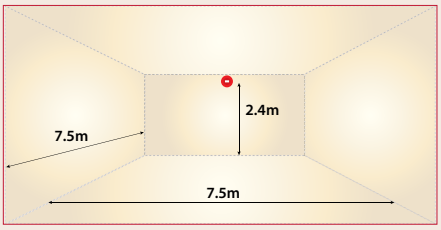
Sonos Pulse Sounder Beacon Wall

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



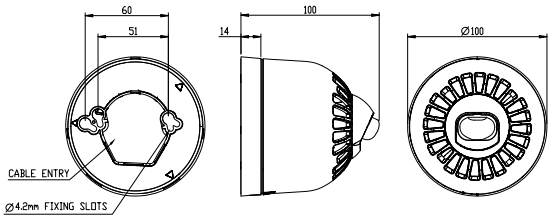
Features

- 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

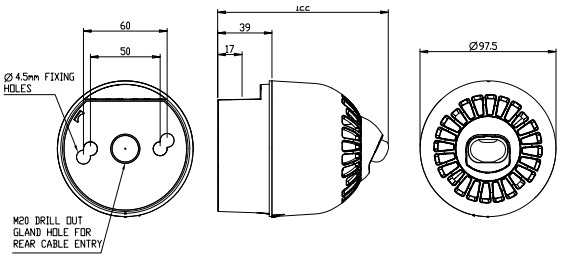
Pulse Alert TECHNOLOGY



Shallow Base



Deep Base



Specifications

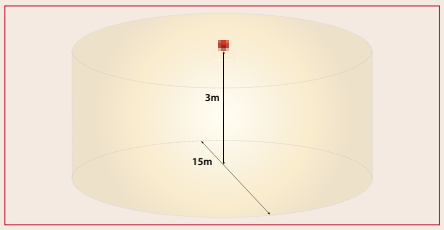
Part	Description	Base	Body Colour	Flash Colour	Audibility at 1m	Voltage	Current @ 0.5Hz	Current @ 1Hz
ESC-5001	Sonos Pulse Wall Sounder Beacon	Deep Base	White	White	97dB(A)	17-60 VDC	25mA	45mA
ESC-5002	Sonos Pulse Wall Sounder Beacon	Shallow Base	White	White	97dB(A)	17-60 VDC	25mA	45mA
ESC-5003	Sonos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

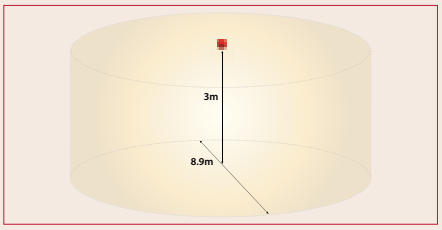
Sonos Pulse Sounder Beacon Ceiling

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



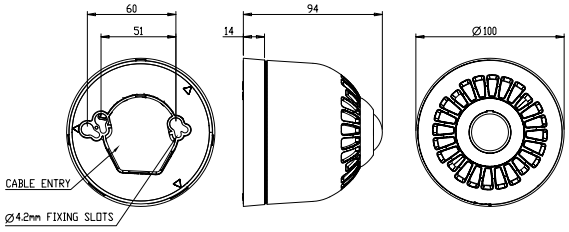
Features

- 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

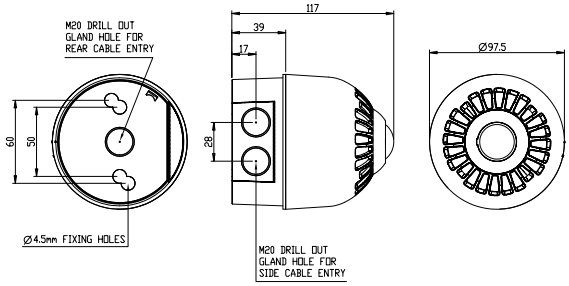
Pulse Alert TECHNOLOGY



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)