

A

# Sonora

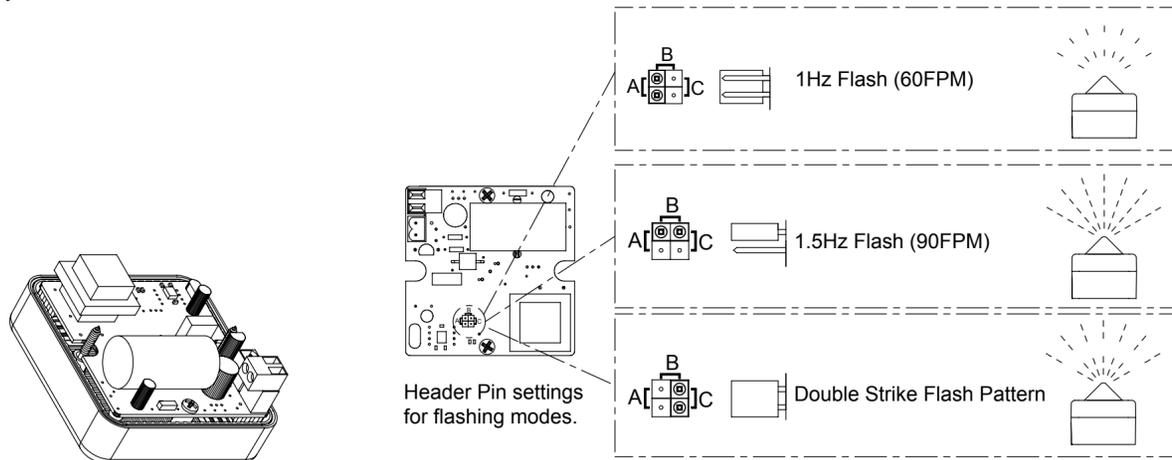
SONFL1H Combined Sounder Xenon Beacon  
 10 Selectable Tones & 2 Stages  
 5J Xenon Flash Tube  
 Three Modes: Flashing 1Hz (AC & DC Units),  
 Flashing 1.5Hz (DC Units Only),  
 Double Strike (DC Units Only).  
 Note: Only 1Hz Flashing mode is CPR/VdS approved.  
 Only 24V dc versions are CPR/VdS approved.  
 CE  
 IP Rating: IP66

# SONFL1X-HO

Dimensions : 172 x 86 x 83mm  
 1.5mm<sup>2</sup> terminals  
 Cable entry: 1-off M20 x 1.5mm  
 Temp: -25°C to +55°C  
 Unit weight: 0.46Kg

Order code	Voltage Range	Nominal Voltage	Sounder Current @Tone 2	Beacon Current
SONFL1XDC012[X]/[Y]-H	10-14V dc	24 V dc	25mA	500mA
SONFL1XDC024[X]/[Y]-H	20-28V dc	24 V dc	25mA	250mA

[X] Denotes Body Colour,  
 [Y] Denotes Lens Colour: Note CPR Approved units  
 only available in C = Clear



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C

- Tone 1
- Tone 2
- Tone 3
- Tone 4
- Tone 5
- Tone 6
- Tone 7
- Tone 8\*
- Tone 9\*
- Tone 10\*

12V DC and 24V DC Tone Table

Stage 1	Tone Description	SONF1 dB@ 1m	Stage 2
1	800/1000 Hz @ 0.25 sec Alternating BS5839 Alarm Tone	99dB(A) @1m	8
2	500/1200 Hz @ 0.3 Hz 0.5 sec Slow Whoop NEN 2575:2000	100dB(A) @1m	1
3	Sawtooth 1200/500 Hz @ 1 Hz - DIN / PFEER P.T.A.P	99dB(A) @1m	8
4	544Hz (100mS)/440 Hz (400mS) AFNOR NF S 32-001	97dB(A) @1m	9
5	Simulated Bell Sound	95dB(A) @1m	1
6	Sweeping 800/1000 Hz @ 7 Hz Sweeping	99dB(A) @1m	8
7	500-1200 Hz 3.75 sec / 0.25 sec Australian Evacuation	100dB(A) @1m	10
8	Continuous 1000 Hz - PFEER toxic gas	100dB(A) @1m	-
9	Continuous 554 Hz	97dB(A) @1m	-
10	420 Hz @ 0.625 sec Australian Alert	97dB(A) @1m	-

\*To set tones 8, 9 & 10 as a first stage connect terminal 'S2' to '-' terminal.

**NOTE: Please check factory settings and ensure the correct alarm tone is selected for your country or application**

Tone Selection / Header Pin Setting - Header pin settings are shown in the tone selection table. The links covered by the jumper are shown with a black rectangle.

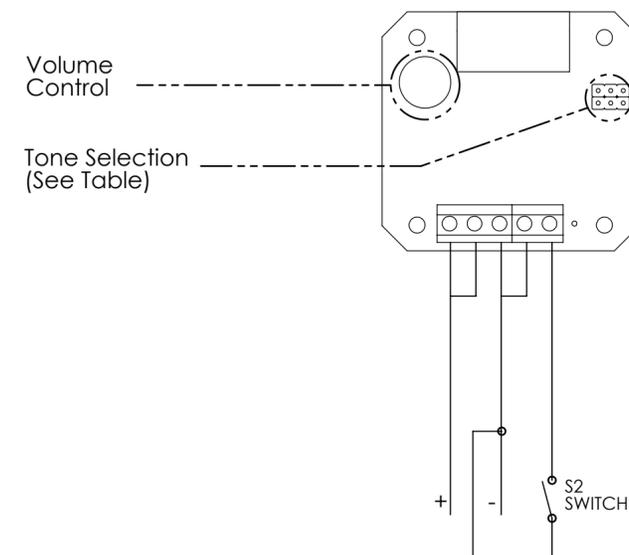
Only tones 1, 2, 3, 4, 8 & 9 have been tested to EN54-3 and are compliant with the Construction Products Regulation 305/2011.

B

- ATTENTION:** Installation must be carried out by an electrician in compliance with the latest codes and regulations.
- ATTENTION:** Disconnect from power source before installation or service to prevent electric shock.
- ATTENTION:** On strobe beacons allow a minimum of 2 minutes for hazardous high voltage to discharge from unit.

**CPR FILE DRAWING**

No modification permitted without reference to "VdS"

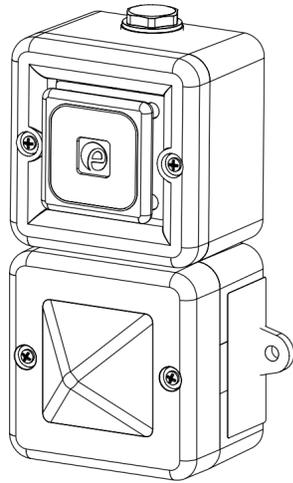


S2 Denotes Stage 2.  
 Stage switches are customer supplied

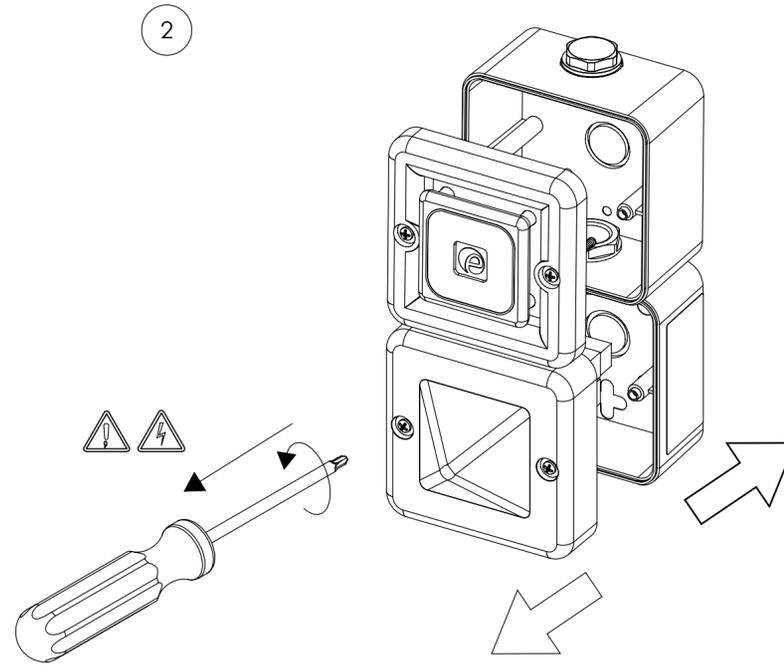


# A Alert Alarm SONFL1X-HO

1



2

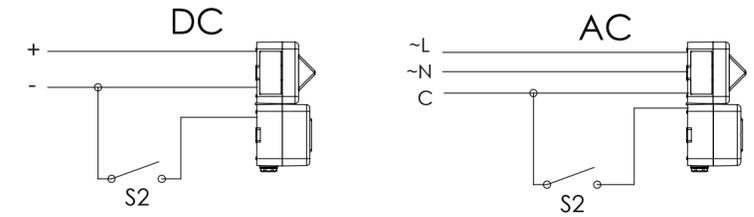


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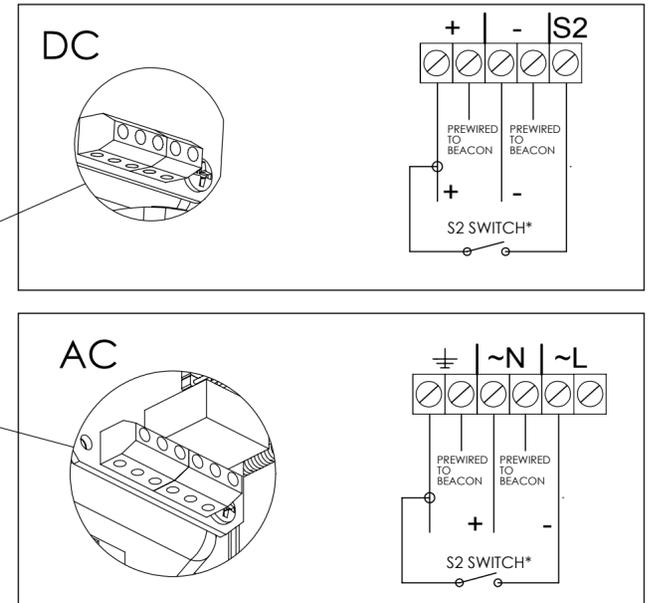
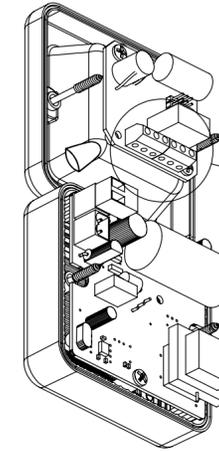


C

General Table		
TERMINAL BLOCK	A/C INPUT	D/C INPUT
⊕		
N/-	N~	-
L/+	L~	+
S2	SWITCH TO C	SWITCH TO -



5 CONNECT CABLE AS SHOWN



\*S2 & S3 Denote Stage 2 & Stage 3 respectively  
Stage switches are customer supplied

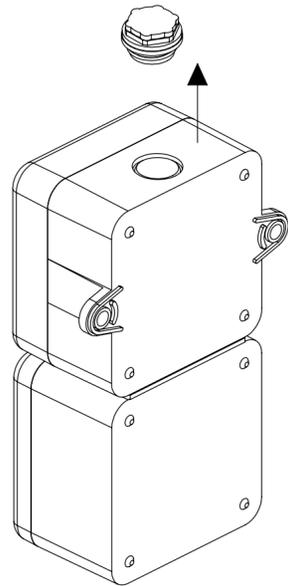


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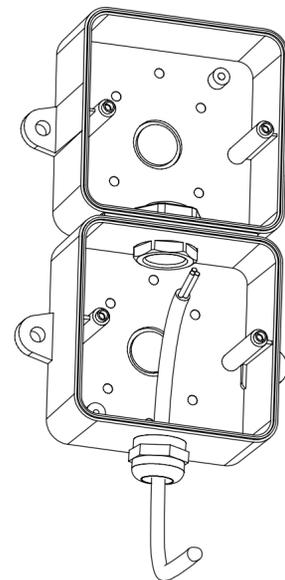


INSERT CABLE THROUGH SUITABLY SIZED M20 CABLE GLAND, CUSTOMER SUPPLIED, THEN STRIP CABLE TO LENGTH.

3



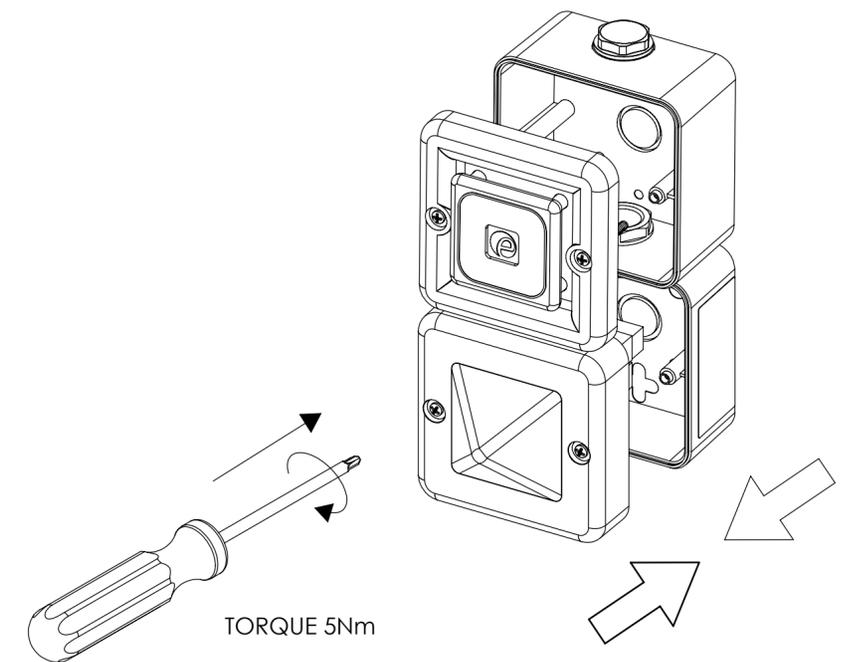
4



Dimensions in mm

D

6

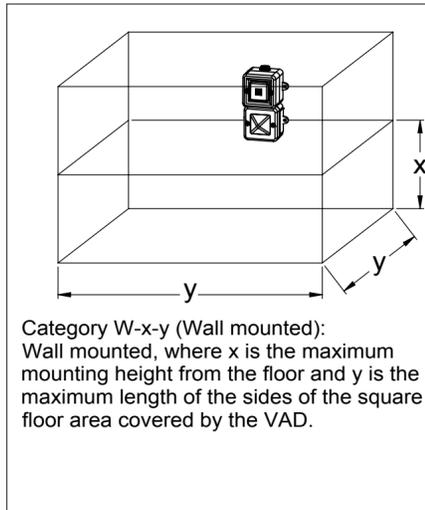


D176-00-551-IS-SC-CPR\_SHT2\_ISSUE\_B



A

# SONFL1XDC024-H LIGHT OUTPUT



Note: CPR approved units must be positioned sounder on top, beacon below.

Coverage Area According to EN54-23  
(Only units in the following table are VdS Approved)

Unit	Category W	Power
SONFL1XDC024(x)/C-H	W-2.4-4.8 V=55.3m³	7W

**CPR FILE DRAWING**

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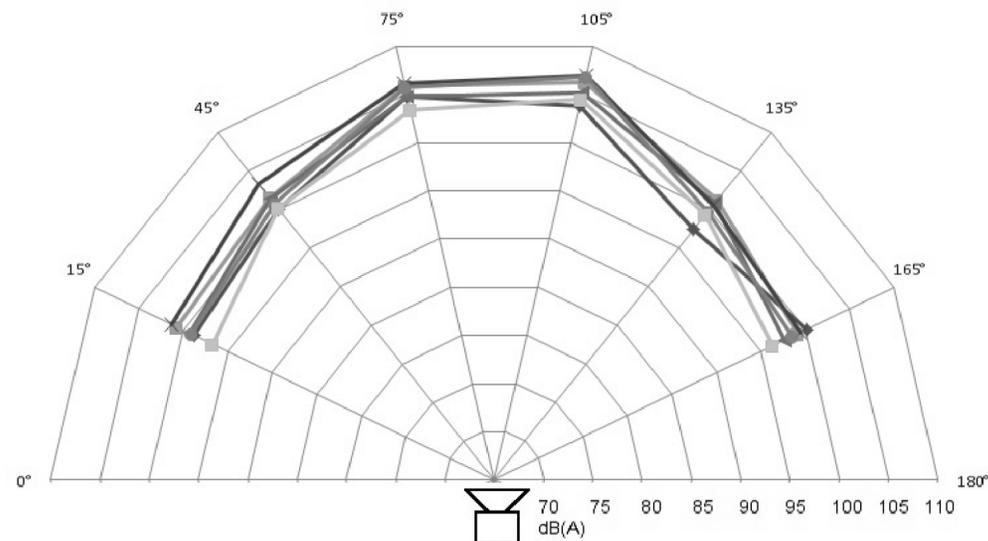
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B

# SONFL1XDC024-H SOUND PRESSURE LEVEL OUTPUT (TESTING AT MINIMUM VOLTAGE OF 18V DC. ALL READINGS ARE IN dB(A) @ 1m)

### SONFL1XDC024-H HORIZONTAL POLAR PLOT



### SONFL1XDC024-H VERTICAL POLAR PLOT

