

PRODUCT NAME: SD125-150, EXPLOSION-PROOFSOUNDER/HORN
DOC NO.: EX-TECH-SIG-SAS-12-SD125-150-TM-EN-REV04
EXPLOSION PROOF SOUNDER/HORN

Ex II 2GD

EPL Gb, Db

Exd IIC T4/T5/T6 Gb, IP66

Ex tb IIIC Txxx

EX-TECH SIGNALLING SAS

SD125-150 EXPLOSION PROOF SOUNDER/HORN

TECHNICAL MANUAL



Marking details;

| | | | |
|---|------------|---------------------|---|
| Type : | | | |
| CE 0470 | Ex II 2 GD | ATEX 13 NEMKO 1562X | |
| Ex d IIC T4 Gb | IP 66 | IECEX, NEM 13.0032X | |
| Ex tb IIIC T135°C | | CNEEx 10.2113X | |
| T. amb: -40°C < Ta < +70°C | | P | 20 Watt max |
| | | U | <input type="checkbox"/> VDC <input type="checkbox"/> AC50/60Hz |
| | | Serial N° : | |
| WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT | | | |
|  Ex-tech Signalling SAS | | | |
| Ex-tech Signalling SAS, Champniers, France - www.ex-tech.no | | | |

Alternative T class:

1:
 Ex d IIC T5 Gb
 Ex tb IIC T100°C
 T.amb : -40°C < Ta < +60°C

2 :
 Ex d IIC T6 Gb
 Ex tb IIIC T85°C
 T.amb : -40°C < TA < +55°C

Please note that every care has been taken to ensure the accuracy of our technical manual. We do not, however, accept responsibility for damage, loss or expense resulting from any error or omission. We reserve the right to make alterations in line with technical advances and industry standards.

1.0 INTRODUCTION

SD-150/125 series Explosion-proof Sounder/Horn & Loudspeaker is designed according to EN / IEC 60079-0, EN / IEC 60079-1 and EN 54 (SB 5879) standard. Enclosure material is UV and corrosion resistance GRP (Glass Reinforced Polyester). This product certified for use and installation in Zone 1 and Zone 2 areas with gases groups of IIA, IIB, IIC and temperature classification of T4~T6. The SD 125 version is made in SS 316 and the SD 150 version is made in GRP.

Users can choose single sounder, speaker or two-in-one sounder & loudspeaker. The design of two-in-one sounder & loudspeaker is unique. According to user control system, 4 stages of alarm tones can be sent out. 63 tones are selectable. Users can record sounds or customize sounds into the sounder by using 5 spare tones. Tone can be preset during installation.

2.0 EXPLOSION-PROOF LABELING

All products have a rating label, which carries the following important information:

Product order no.: e.g. **SD150DCNNARDN**

(Refer to the datasheet for product order selection)

Input voltage: up to 48V DC or 100-254V AC

Code: SD150-1101400001

Ex d IIC Txx Gb

Ex tb IIIC Txx

ATEX Marking:

Gas Group and Category: II 2GD

CE Mark:  0470

Warning:

DO NOT OPEN WHEN AN EXPLOSIVE GAS ATMOSPHERE IS PRESENT

Finish product serial no. (Include date of construction)

Note; exact information is given on the actual label, ref also example on page 1.

3.0 TYPE APPROVAL STANDARD

The BC series products have been approved according the following standards:

IEC/EN 60079 General Requirements

IEC/ EN 60079-1 Flame proof Enclosure'd'

IEC/ EN 60079-31 Dust atmosphere "t"

4.0 ZONES, GASGROUP, CATEGORY AND TEMPERATURE CLASSIFICATION

The BC series products have been certified Ex d IIC T4~T6. This means that the units can be installed in locations with the following conditions:

Area Classification:

Zone 1: Explosive gas air mixture likely to occur in normal operation.

Zone 2: Explosive gas air mixture not likely to occur, and if it does, it will only exist for a short time.

Gas Groupings: Group IIA Propane Group

IIB Ethylene Group

IIC Hydrogen and Acetylene

Equipment Category: ATEX, 2GD

EPL; Gb/ Db

Temperature Range: See label, ref page 1

5.0 INSTALLATION

General Requirement

Selection, Installation, Maintenance and repair of electrical apparatus for use in potentially explosive atmosphere should be done in according to IEC/ EN 6079-14/ -17/ -19 . Product installation must be carried out in accordance with any local codes that may apply and should only be carried out by a competent electrical engineer.

Location

The location of the unit should be made with due regard to

the area over which both the sounder and beacon warning signal must be audible and visible. The unit should only be fixed to services that can carry the weight of the unit.

Mounting

Bracket Mounting

The SD150/ 125 mounts 'U' shaped stainless steel via a bracket by using one 12mm diameter and two 8.5mm diameter bolt holes in the center of the bracket. The alignment and positions can be adjusted by loosening the two M8 screws, which fastened the stainless steel bracket to the sounder. The sounder should be positioned such that dust, debris or water cannot enter into the horn opening.

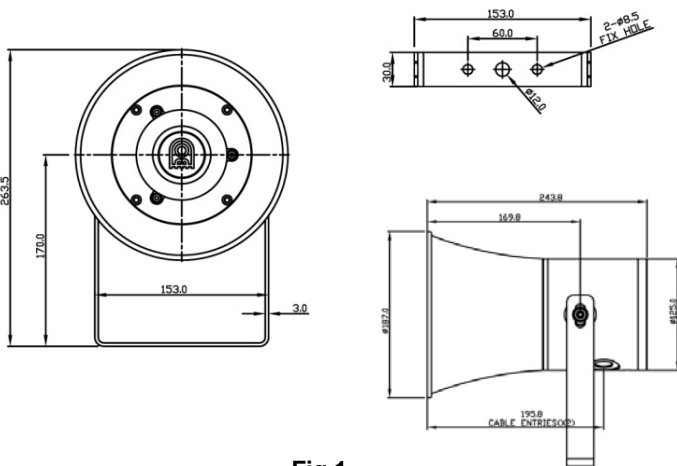


Fig 1

6.0 WIRING

General Requirement

EX-TECH SIGNALLING SAS recommends that all cables and cores should be fully identified (suggest using cable from 2.0 to 2.5 mm²).

Ensure that all nuts, bolts and screws are secured. Ensure that only the right and certified cable glands are used and earthed correctly. Ensure that only the right and certified stopping plugs are used to blank off unused gland entry points. In order to maintain the IP rating of the product, we recommend SS316L for this application.

Cable Connection

The cable connection is connected with the terminal blocks on the electronic PCB assembly located in the flameproof enclosure of sounder. Cable connection should be suitably approved for the installation requirements

requirement.

Remove End Cover

Unscrew the six (6 for BC 150 and 4 for BC 125) M5 retained hex socket head screws of the end cover. This will release the cover from the base. Before replacing the cover, check that the flameproof joints are clean and not damaged, the gasket is still retained in its groove

CAUTION: Before removing the cover, ensure the power to the product is isolated. Remove the six pieces of M5 socket screws to open the cover. Twist the cover gently clockwise and anti-clockwise, whilst pulling away from the base, until it comes off. Replace the cover in similar way, but operate in reverse manner as above.

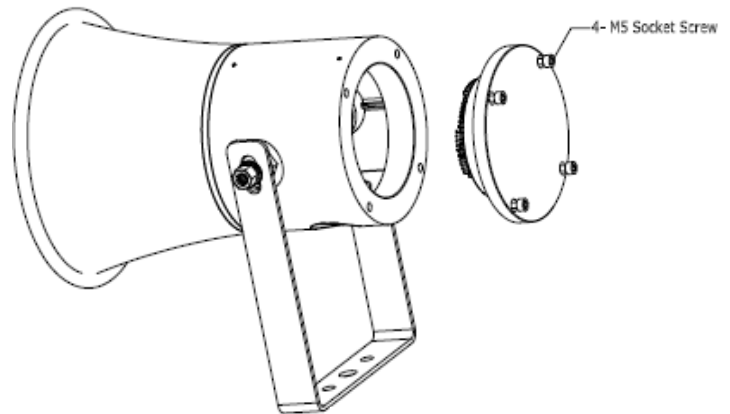


Fig 2

Power Supply

up to 48V DC or 100-254V AC

PCB WIRING TERMINALS

Apply power supply to up to 48V DC or 100-250V AC to 'L' & 'N' (See Fig 1)

Four Alarm Stages

No sound for Stage 1. There will be sounds for the subsequent

Stages:

Stage 1: apply power supply to 'L' & 'N'

Stage 2; connect S1 to 0/ com

Stage 3: apply power supply to 'L' & 'N' and connect S2 to 0/COM

Stage 4: apply power supply to 'L' & 'N' and connect S1, S2 to 0/COM. Stage DIY (Recording Sound) : supply to 'L' apply power & 'N' and connect DIY to 0/COM

7.0 TONE SELECTION

The sounder provides 63 tones to be selected for the alarm stage 2 to 4. Three stages of alarm tones can be preset via switch on the Sounder PCB.

Tone Selection Switch

Use the three (3) DIP switches with 6 binary codes on the **Sounder PCB** to select tones (See Fig 3).

Tone Selection Table (see attached table 1)

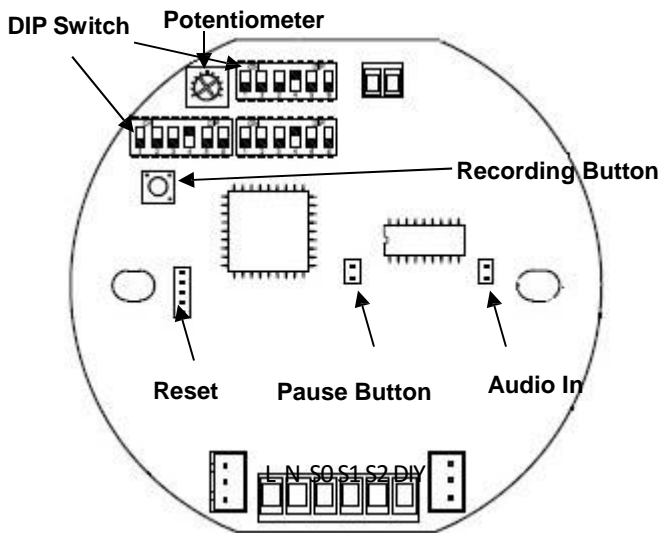


Fig 3

8.0 VOLUME CONTROL

The sounder has a volume control to adjust the output volume of the sounder component. To set the required output volume, adjust the potentiometer-VR1 on the PCB (See Fig 3). The potentiometer should be set to fully clockwise position if maximum output volume is needed.

9.0 SOUNDER RECORDING

The sounder can provide 4 tones can be recorded by the user. Use the Audio In and Recording Button (See Fig 3) to record.

The SD150 series product has cable gland entries. Only cable glands approved for Ex 'd' applications can be used, which must be suitable for the type of cable being used and also meet the requirements of the Ex 'd' flameproof installation standard EN/ IEC 60079-14.

Recording Procedure

1. Turn off S1 and S2;
2. Set up any DIP Switches as Tone 60-63 (refer to Attached Table 1- Tone Selection Table);
3. Insert the Audio IN plug;
4. Press the Recording Button and hold the button until the recording is finished.

CAUTION: The sounder will begin to record after 3 seconds from pressing the button. Don't release the button when the recording is in process. The maximum of recording time is 20 seconds.

10.0 SOUND PAUSE

The sound can pause by pressing the Recording Button. (See Fig 3)

As the pausing period, please refer to the below table:

| Pressing Times | Default Setting | Option |
|----------------|----------------------|----------------------|
| 1 | 1 minute | 10 minute |
| 2 | 5 minute | 30 minute |
| 3 | 10 minute | 60 minute |
| 4 | Restore to the sound | Restore to the sound |

In order to have the option function, please inform EX-TECH SIGNALLING SAS in advance before EX-TECH SIGNALLING SAS begin the production of the sounder.

11.0 CABLE GLAND

SAFETY WARNING: If the SD150 is used at high ambient temperatures, i.e. over +40°C, then the cable entry temperature may exceed +70°C and therefore suitable heat resisting cable glands must be used, with a rated service temperature of at least 95°C.

If a high IP (Ingress Protection) rating is required, a suitable sealing washer must be fitted under the cable gland.

When only one cable entry is used, the other one must be closed with an Ex 'd' flameproof blanking plug, which must

12.0 END OF LINE MONITORING

An end of line monitoring diode or an end of line monitoring resistor can be connected across the 24V+ and 0 terminals. If an end of line monitoring resistor is used, it must have a maximum resistance value of 3k ohms and a minimum wattage of 0.5 Watts; or a minimum resistance value of 1.2k ohms and a maximum wattage of 2 Watts.

13.0 MAINTENANCE

During working life of the product, little or no maintenance is required. GRP and ss 316 are resistant to most of the acids, alkalis and chemicals. If abnormal or unusual environmental conditions occur due to accident etc., visual inspection is recommended. If any failure occurs but not caused by human factor, the product can be returned to EX-TECH SIGNALLING SAS for free repair or replacement during warranty period.

As to avoid electrostatic charge build-up, only exterior of the product can be cleaned with a damp cloth. If spare parts are required, these can be supplied by EX-TECH SIGNALLING SAS Company.

SAFETY WARNING: In the case of Anti-Static and UV Resistant GPR and SS 316, the painting of the enclosure

surface has been processed specially. To maintain the product to be Anti-Static, extra normal painting is not allowed.

14.1 CONDITIONS FOR SAFETY USE

- i. This apparatus is suitable to be used only in ambient temperature as stated at the label
- ii. Other than product manufacturer, painting and surface finishing are not permitted by the third party.
- iii. When used in dust atmosphere, flameproof cable entry devices or stopping plugs have to be selected and installed carefully in order to maintain the IP rating (IP66/67) of the product.

Specific Condition for Use

Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 1 and 2 of EN/ IEC 60079-1.

Please contact Ex-Tech Signalling for further details.

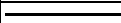
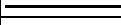
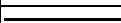
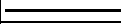

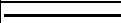
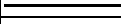
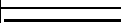



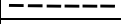
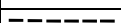





















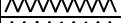
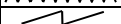

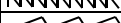




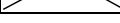














Attached Table 2: Tone Selection Table

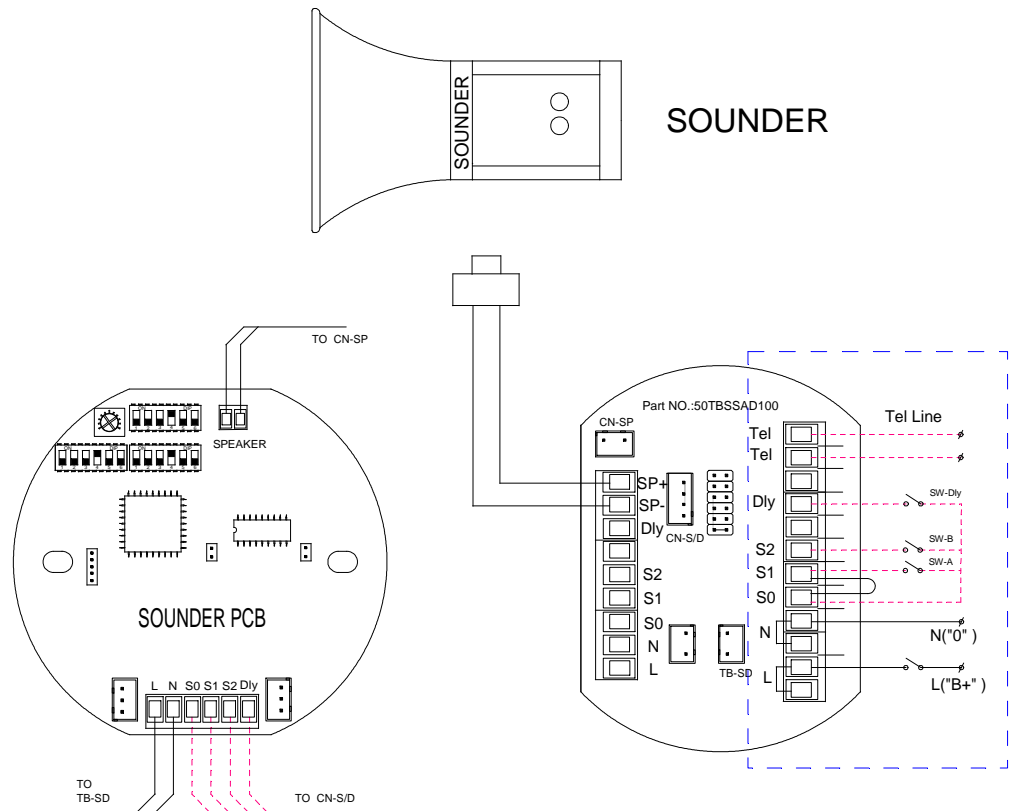
| ITEM | DESCRIPTION | | | | Max dB | SW1,SW2,SW3,SW4 |
|------|--|-----------------------|---------------------------|----------|---------|-----------------|
| Tone | Frequency | Tone Description | Tone Application | Waveform | (DB)@1M | Bit 123456 |
| 0 | 0 | 0 | 0 | 0 | 0 | 000000 |
| 01 | 300Hz | Continuous | | | 105 | 100000 |
| 02 | 340Hz | Continuous | | | 105 | 010000 |
| 03 | 440Hz | Continuous | | | 105 | 110000 |
| 04 | 554Hz | Continuous | | | 106 | 001000 |
| 05 | 660Hz | Continuous | All-clear, Sweden | | 104 | 101000 |
| 06 | 800Hz | Continuous | | | 105 | 011000 |
| 07 | 1000Hz | Continuous | PFEER Toxic Gas | | 109 | 111000 |
| 08 | 1200Hz | Continuous | | | 106 | 000100 |
| 09 | 2000Hz | Continuous | | | 105 | 100100 |
| 10 | 2400Hz | Continuous | | | 103 | 010100 |
| 11 | 2850Hz | Continuous | | | 102 | 110100 |
| 12 | 420Hz@0.625 sec | intermittent | Australian, AS2220 | | 100 | 001100 |
| 13 | 544Hz@0.875 sec | intermittent | | | 104 | 101100 |
| 14 | 660Hz@150ms on,150ms off | intermittent | Swedish Fire Alarm | | 100 | 011100 |
| 15 | 660Hz@1.8sec on,1.8sec off | intermittent | Swedish Fire Alarm | | 103 | 111100 |
| 16 | 745Hz@500ms on,500ms off | intermittent | | | 102 | 000010 |
| 17 | 800Hz@250ms on,250ms off | intermittent | | | 102 | 100010 |
| 18 | 800Hz@250ms on,1sec off | intermittent | | | 100 | 010010 |
| 19 | 1000Hz@250ms on,250ms off | intermittent | | | 105 | 110010 |
| 20 | 1000Hz@500ms on,500ms off | intermittent | Back-up Alarm(LF) | | 105 | 001010 |
| 21 | 1000Hz@250ms on,1sec off | intermittent | | | 105 | 101010 |
| 22 | 1000Hz@1sec on,1sec off | intermittent | PFEER Gen, Alarm | | 105 | 011010 |
| 23 | 2400Hz@250ms on,250ms off | intermittent | | | 101 | 111010 |
| 24 | 2400Hz@500ms on,500ms off | intermittent | | | 100 | 000110 |
| 25 | 2850Hz@1sec on,1sec off | intermittent | Back-up Alarm(HF) | | 101 | 100110 |
| 26 | 2850Hz@150ms on,100ms off | intermittent | Pelican Crossing | | 101 | 010110 |
| 27 | 970Hz@0.5sec on/0.5sec off,1.5sec off | 3 Pulses | ISO 8201 Low tone | | 105 | 110110 |
| 28 | 2850Hz@0.5sec on/0.5sec off,1.5sec off | 3 Pulses | ISO 8201 Low tone | | 101 | 001110 |
| 29 | 700Hz@2sec on/2sec off | intermittent | Air-raid, Sweden | | 105 | 101110 |
| 30 | 700Hz@125ms on/125ms off | intermittent | Local warning, Sweden | | 105 | 011110 |
| 31 | 720Hz@0.7sec on/0.3sec off | intermittent | Industrial alarm, Germany | | 105 | 111110 |
| 32 | 544Hz/440Hz@100ms | Alternating | Swedish Fire Alarm | | 101 | 000001 |
| 33 | 544Hz/440Hz@100ms/400ms | Alternating | AFNOR,NFS 32-001 | | 101 | 100001 |
| 34 | 544Hz/440Hz@1sec | Alternating | Turn-out, Sweden | | 100 | 010001 |
| 35 | 800Hz/1000Hz@125ms | Alternating | Increased Urgency | | 104 | 110001 |
| 36 | 2400Hz/2900Hz@125ms | Alternating | Security Deterrent | | 100 | 001001 |
| 37 | 800Hz/1000Hz@250ms | Alternating | Fire Alarms | | 104 | 101001 |
| 38 | 800Hz/1000Hz@580ms | Alternating | | | 104 | 011001 |
| 39 | 1000Hz/2000Hz@500ms | Alternating | | | 104 | 111001 |
| 40 | 2400Hz/2900Hz@250ms | Alternating | Security Alarms | | 100 | 000101 |
| 41 | 500Hz--1000Hz@6Hz | Fast whoop | | | 103 | 100101 |
| 42 | 500Hz--1200Hz@0.3Hz | Sweeping | | | 102 | 010101 |
| 43 | 660Hz--1200Hz@1Hz | Sweeping | | | 101 | 110101 |
| 44 | 800Hz--1000Hz@1Hz | Med Sweeping(LF) | | | 101 | 001101 |
| 45 | 800Hz--1000Hz@7Hz | Fast Sweeping(LF) | | | 102 | 101101 |
| 46 | 2400Hz--2900Hz@1Hz | Sweeping | | | 100 | 011101 |
| 47 | 2400Hz--2900Hz@7Hz | Fast Sweeping | | | 100 | 111101 |
| 48 | 800Hz--1000Hz@50Hz | Low Freq Buzz | Buzz | | 100 | 000011 |
| 49 | 2400Hz--2900Hz@50Hz | High Freq Buzz | Buzz | | 100 | 100011 |
| 50 | 500Hz--1200Hz@2.5sec↑,0.5sec↓ | Slow Whoop | | | 102 | 010011 |
| 51 | 500Hz--1200Hz@5sec↑,0.25sec↓ | Slow Whoop | Evacuation,Netherlands | | 102 | 110011 |
| 52 | 1200Hz--500Hz@1Hz | Reverse sweeping | Evacuation,Germany | | 102 | 001011 |
| 53 | 1400Hz--1600Hz@1sec↑,0.5sec↓ | sweeping | NFC 48-265 | | 100 | 101011 |
| 54 | Simulated Bell | Fast Shake | Bell | | 98 | 011011 |
| 55 | 800Hz/660Hz | Tow tone chime | Int'l evacuation alarm | | 102 | 111011 |
| 56 | 800Hz/1000Hz | ISO 8201 Evacuation | Int'l evacuation alarm | | 102 | 000111 |
| 57 | 250Hz--1200Hz@3sec↑,6sec 3sec↓ | Motor Siren-slow rise | | | 104 | 100111 |
| 58 | 250Hz--800Hz@3sec↑,6sec 3sec↓ | Motor Siren-slow rise | | | 105 | 010111 |
| 59 | 250Hz--2400Hz@6sec↑,6sec 6sec↓ | Motor Siren-slow rise | | | 100 | 110111 |
| 60 | Client Spare recording | | | | | 001111 |
| 61 | Client Spare recording | | | | | 101111 |
| 62 | Client Spare recording | | | | | 011111 |
| 63 | Client Spare recording | | | | | 111111 |

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E-mail: sales.signalling@ex-tech.no

| ITEM | DESCRIPTION | | | | | SW1, SW2, SW3, SW4 | COMSUPTION | |
|------|--------------------------------------|-----------------------|---------------------------|--|-----------|--------------------|------------|---------|
| Tone | Frequency | Tone Description | Tone Application | Waveform | dB@1meter | Bit 123456 | DC (mA) | AC (mA) |
| 00 | 0 | 0 | 0 | 0 | 0 | 000000 | 60 | 10 |
| 01 | 300Hz | Continuous | |  | 105 | 100000 | 925 | 105 |
| 02 | 340Hz | Continuous | |  | 105 | 010000 | 925 | 105 |
| 03 | 440Hz | Continuous | |  | 105 | 110000 | 950 | 105 |
| 04 | 554Hz | Continuous | |  | 106 | 001000 | 925 | 99 |
| 05 | 660Hz | Continuous | All-clear, Sweden |  | 104 | 101000 | 904 | 90 |
| 06 | 800Hz | Continuous | |  | 105 | 011000 | 795 | 78 |
| 07 | 1000Hz | Continuous | PFEER Toxic Gas |  | 109 | 111000 | 840 | 80 |
| 08 | 1200Hz | Continuous | |  | 106 | 000100 | 930 | 83 |
| 09 | 2000Hz | Continuous | |  | 105 | 100100 | 990 | 69 |
| 10 | 2400Hz | Continuous | |  | 103 | 010100 | 945 | 60 |
| 11 | 2850Hz | Continuous | |  | 102 | 110100 | 880 | 48 |
| 12 | 450Hz@0.625 sec | Intermittent | Australian, AS2220 |  | 100 | 001100 | 1050 | 117 |
| 13 | 544Hz@0.875sec | Intermittent | |  | 104 | 101100 | 1000 | 106 |
| 14 | 660Hz@150ms on, 150ms off | Intermittent | Swedish Fire Alarm |  | 100 | 011100 | 960 | 96 |
| 15 | 660Hz@1.8 sec on, 1.8sec off | Intermittent | Swedish Fire Alarm |  | 103 | 111100 | 985 | 100 |
| 16 | 745Hz@500ms on, 500ms off | Intermittent | |  | 102 | 000010 | 840 | 84 |
| 17 | 800Hz@250ms on, 250ms off | Intermittent | |  | 102 | 100010 | 820 | 76 |
| 18 | 800Hz@1s on, 1s off | Intermittent | |  | 100 | 010010 | 850 | 84 |
| 19 | 1000Hz@250ms on, 250ms off | Intermittent | |  | 105 | 110010 | 890 | 80 |
| 20 | 1000Hz@500ms on, 500ms off | Intermittent | Back-up Alarm (LF) |  | 105 | 001010 | 870 | 82 |
| 21 | 1000Hz@250ms on, 1s off | Intermittent | |  | 105 | 101010 | 900 | 84 |
| 22 | 1000Hz@1s on, 1s off | Intermittent | PFEER Gen, Alarm |  | 105 | 011010 | 890 | 83 |
| 23 | 2400Hz@250ms on, 250ms off | Intermittent | |  | 101 | 111010 | 1020 | 62 |
| 24 | 2400Hz@500 ms on, 500ms off | Intermittent | |  | 100 | 000110 | 1010 | 50 |
| 25 | 2850Hz@1s on, 1s off | Intermittent | Back-up Alarm (HF) |  | 101 | 100110 | 930 | 50 |
| 26 | 2850Hz@150ms on, 100ms off | Intermittent | Pelican crossing |  | 101 | 011010 | 900 | 82 |
| 27 | 970Hz@500ms on, 500ms off, 1.5s off | 3 Pulses | ISO 8201 Low Tone |  | 105 | 110110 | 870 | 51 |
| 28 | 2850Hz@500ms on, 500ms off, 1.5s off | 3 Pulses | ISO 8201 Low Tone |  | 101 | 001110 | 950 | 90 |
| 29 | 700Hz@2s on, 2s off | Intermittent | Air-raid, Sweden |  | 105 | 101110 | 890 | 86 |
| 30 | 700Hz@125ms on, 125ms off | Intermittent | Local Warning, Sweden |  | 105 | 011110 | 875 | 87 |
| 31 | 720Hz@0.7s on, 0.3s off | Intermittent | Industrial alarm, Germany |  | 105 | 111110 | 875 | 102 |
| 32 | 544Hz/440Hz@500ms | Alternating | Swedish Fire Alarm |  | 101 | 000001 | 970 | 104 |
| 33 | 544Hz/440Hz@100ms/400ms | Alternating | AFNOR, NFS 32-001 |  | 101 | 100001 | 960 | 102 |
| 34 | 544Hz/400Hz@1s | Alternating | Turn-out, Sweden |  | 100 | 010001 | 970 | 80 |
| 35 | 800Hz/1000Hz@125ms | Alternating | Increased Urgency |  | 104 | 110001 | 830 | 55 |
| 36 | 2400Hz/2900Hz@125ms | Alternating | Security Deterrent |  | 100 | 001001 | 950 | 78 |
| 37 | 800Hz/1000Hz@250ms | Alternating | Fire Alarms |  | 104 | 101001 | 830 | 78 |
| 38 | 800Hz/1000Hz@580ms | Alternating | |  | 104 | 011001 | 840 | 75 |
| 39 | 1000Hz/2000Hz@500ms | Alternating | |  | 104 | 111001 | 1020 | 55 |
| 40 | 2400Hz/2900Hz@250ms | Alternating | Security Alarms |  | 100 | 000101 | 950 | 92 |
| 41 | 500Hz--1000Hz@6Hz | Fast Whoop | |  | 103 | 100101 | 900 | 102 |
| 42 | 500Hz--1000Hz@0.3Hz | Sweeping | |  | 102 | 010101 | 1000 | 80 |
| 43 | 660Hz--1200Hz@1Hz | Sweeping | |  | 101 | 110101 | 910 | 78 |
| 44 | 800Hz--1000Hz@1Hz | Med Sweeping (LF) | |  | 101 | 001101 | 830 | 78 |
| 45 | 800Hz--1000Hz@7Hz | Fast Sweeping (LF) | |  | 102 | 101101 | 800 | 55 |
| 46 | 2400Hz--2900Hz@1Hz | Sweeping | |  | 100 | 011101 | 930 | 55 |
| 47 | 2400Hz--2900Hz@7Hz | Fast Sweeping | |  | 100 | 111101 | 910 | 75 |
| 48 | 800Hz--1000Hz@50Hz | Low freq buzz | Buzz |  | 100 | 000011 | 810 | 55 |
| 49 | 2400Hz--2900Hz@50Hz | High freq buzz | Buzz |  | 100 | 100011 | 900 | 103 |
| 50 | 500Hz--1200Hz@2.5s ↑ 0.5s | Slow Whoop | |  | 102 | 010011 | 1010 | 102 |
| 51 | 500Hz--1200Hz@5s ↑ 0,25s | Slow Whoop | Evacuation, Netherlands |  | 102 | 110011 | 1000 | 104 |
| 52 | 1200Hz--500Hz@1Hz | Reverse Sweeping | Evacuation, Germany |  | 102 | 001011 | 960 | 84 |
| 53 | 1400Hz--1600Hz@1s ↑ 0,5s ↓ | Sweeping | NFC 48-265 |  | 100 | 101011 | 1040 | 66 |
| 54 | Simulated bell | Fast Shake | Bell |  | 98 | 011011 | 860 | 102 |
| 55 | 800Hz/660Hz | Tow tone chime | Int'l evacuation alarm |  | 102 | 111011 | 980 | 102 |
| 56 | 800Hz/1000Hz | ISO 8201 Evacuation | Int'l evacuation alarm |  | 102 | 000111 | 880 | 81 |
| 57 | 250Hz--1200Hz@3s ↑, 6s, 3s ↓ | Motor Siren-slow rise | |  | 104 | 100111 | 1000 | 107 |
| 58 | 250Hz--800Hz@3s ↑, 6s, 3s ↓ | Motor Siren-slow rise | | | 105 | 010111 | 1020 | 108 |
| 59 | 250Hz--1400Hz@3s ↑, 6s, 3s ↓ | Motor Siren-slow rise | | | 100 | 110111 | 950 | 106 |



Wiring For Customer

- Wiring Method**
- Factory default settings**
- S0 and S1 are connected (default stage 1 alarm output).
 - Connect power supply line to terminals "L" and "N". If power supply is DC, "L" presents "+", "N" presents "0".
 - The unit will alarm (default stage 1 alarm output) when power is on.
- Three stages alarm output settings**
- Connect power supply line to terminals "L" and "N". If power supply is DC, "L" represents "+", "N" represents "0".
 - Connect S1 to S0 for stage 1 alarm output
Connect S2 to S0 for stage 2 alarm output
Connect S1/S2 to S0 for stage 3 alarm output
 - The unit won't alarm when power is on.
 - The unit will alarm as stage 1 when switch 1 is on.
The unit will alarm as stage 2 when switch 2 is on.
The unit will alarm as stage 3 when switches 1/2 are on.
- Telephone Initiated PCB Function**
- Connect the telephone line to the "Tel" terminals.
 - The unit will alarm when telephone rings.
 - The unit will stop alarming when the telephone handset is picked up.
- Please refer to our product technical manual for more details.

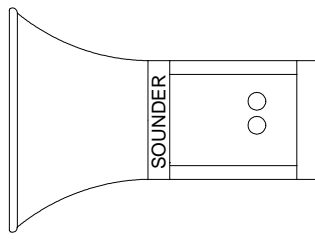
Cable Selection

Please select suitable size cable according to the distance between control room & the terminals and the quantity of equipments used.

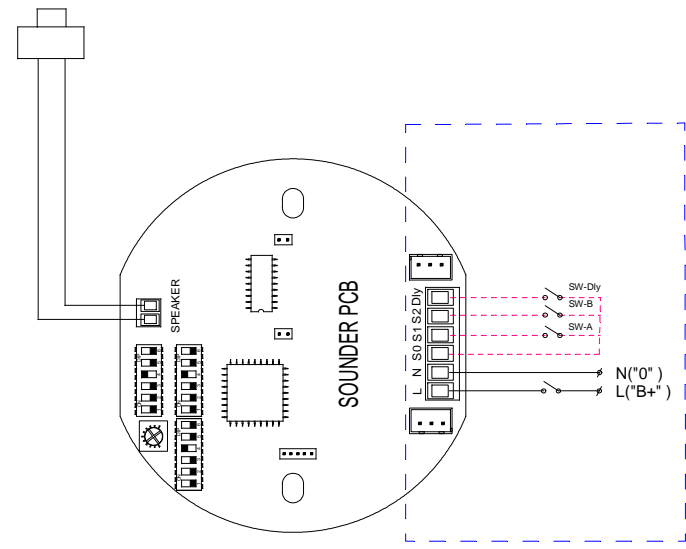
Normal size for AC power supply cable L & N is 1.5mm². Normal size for DC power supply cable L & N is 2.5mm².

Please select the quantity of control cables (0 to 4) according to the actual requirement. Normal size for control cable is 1mm².

| | | | | | |
|---|--|----------------------|--|---|-----|
| 00 - 15/02/2016 | | Création | | Size : A3 | |
| Revision - date | | Reason | | | |
| Material | | | | | |
| Treatment | | | | | |
| Specifications | | | | Project / N° PO | |
| Drawing part WIRING DIAGRAM SD100_125_150 | | Scale: 1 : 1 | | - | |
| | | Drawn by: P. TRAUMAT | | - | |
| | | Date: 15/02/2016 | | N° Drawing | |
| | | SD100_125_150 | | 01 | 1/1 |



SOUNDER



Wiring For Customer

Wiring Method

Factory default settings

- S0 and S1 are connected (default stage 1 alarm output).
- Connect power supply line to terminals "L" and "N". If power supply is DC, "L" presents "+", "N" presents "0".
- The unit will alarm (default stage 1 alarm output) when power is on.

Three stages alarm output settings

- Connect power supply line to terminals "L" and "N". If power supply is DC, "L" represents "+", "N" represents "0".
- Connect S1 to S0 for stage 1 alarm output
Connect S2 to S0 for stage 2 alarm output
Connect S1/S2 to S0 for stage 3 alarm output
- The unit won't alarm when power is on.
- The unit will alarm as stage 1 when switch 1 is on.
The unit will alarm as stage 2 when switch 2 is on.
The unit will alarm as stage 3 when switches 1/2 are on.

Telephone Initiated PCB Function

- Connect the telephone line to the "Tel" terminals.
- The unit will alarm when telephone rings.
- The unit will stop alarming when the telephone handset is picked up.

Please refer to our product technical manual for more details.

Cable Selection

Please select suitable size cable according to the distance between control room & the terminals and the quantity of equipments used.

Normal size for AC power supply cable L & N is 1.5mm². Normal size for DC power supply cable L & N is 2.5mm².

Please select the quantity of control cables (0 to 4) according to the actual requirement. Normal size for control cable is 1mm².

| | | | |
|----------------------------|----------|----------------------|------------------------|
| 00 - 30/08/2016 | Création | | |
| Revision - date | Reason | | |
| Material | | | |
| Treatment | | | |
| Specifications | | | |
| Drawing part | | Scale: 1 : 1 | Project / N° PO |
| WIRING DIAGRAM SD125W_150W | | Drawn by: P. TRAUMAT | Dossier |
| | | Date: 30/08/2016 | N° Drawing SD125W_150W |
| | | | Index 01 |
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