

Warning Alarm with Turn Right

Product No. xxxxxx

BS9843V24V-03

Issue No. BS/TEA01.xxxx



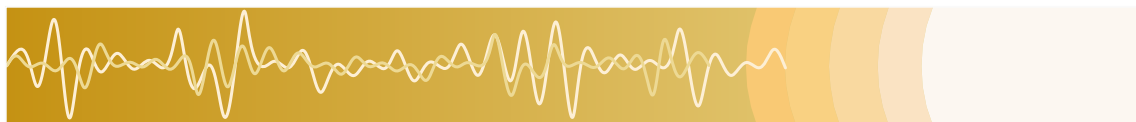
Features:

- IP67 waterproof rating
- Loud sound output
- RoHS

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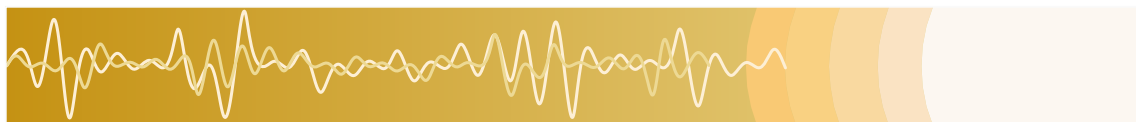




Content:

| | |
|-------------------------------|-----|
| 1 Characteristics | 3-4 |
| 1.1 Technical terms | 3 |
| 1.2 Tone | 4 |
| 2 Test method | 5 |
| 3 Part List | 6 |
| 4 Dimension | 7 |
| 5 Reliability Test | 8 |
| 6 Packing | 9 |
| 7 History change record | 10 |
| 8 Important Notice | 11 |





1. Characteristic

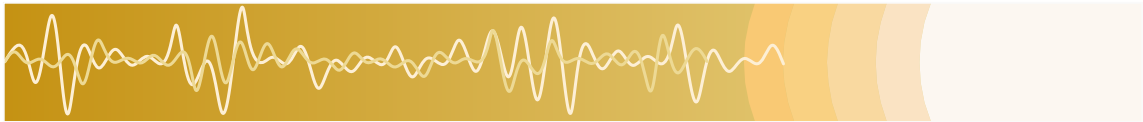
1.1 Technical terms

| | |
|-------------------------|------------------------------------|
| 1. Rated Voltage | 24VDC |
| 2. Operating Voltage | 16-32VDC |
| 3. Current Consumption | ≤500mA |
| 4. SPL at 2m (Day Mode) | 87±5dB |
| SPL at 2m (Night Mode) | 72±5dB |
| 5. Resonant Frequency | 1600±50Hz (Beep) |
| 6. Tone | "didi,Turn right,attention please" |
| 7. ON-OFF-cycles | 18C/M±2 |
| 8. Temperature Range | -40~+85℃ |
| 9. Storage Range | -40~+85℃ |
| 10.IP-rating | IP67 |
| 11.Housing color | Black |

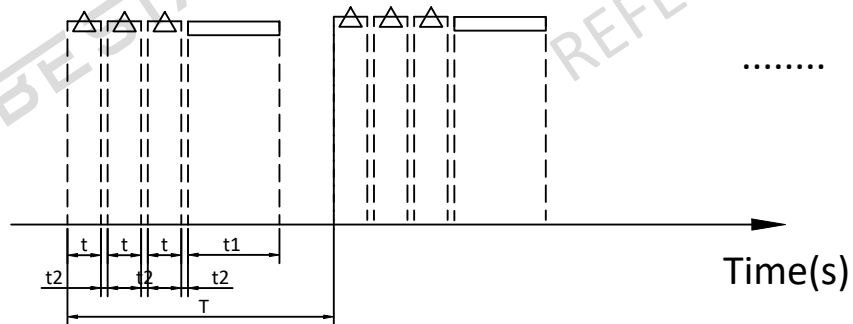
Remarks:

- 1.It will keep silent when power up without any signal wire.
- 2.Daytime mode: Line 4 (yellow) is continuously connected to high level 24V.The product has high SPL.
- 3.Night mode: Line 3 (red) is continuously connected to high level 24V.The product has low SPL.





1.2 Tone



Remarks:

T : 3.5s

t : 0.5s

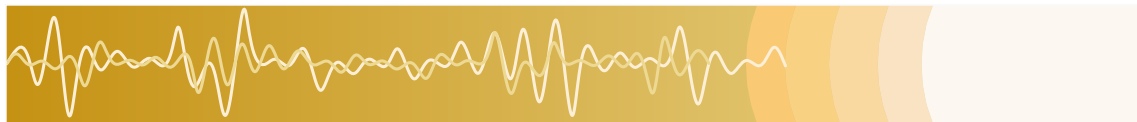
$t1$: Adjustable

$t2$: 0.1s

Δ : Beep(di)

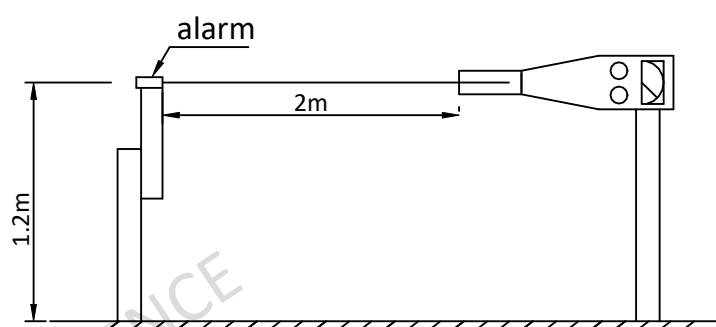
:Voice (Turn right,attention please)

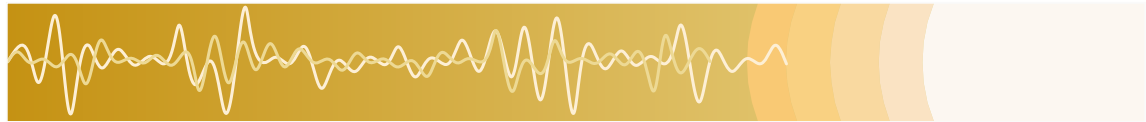




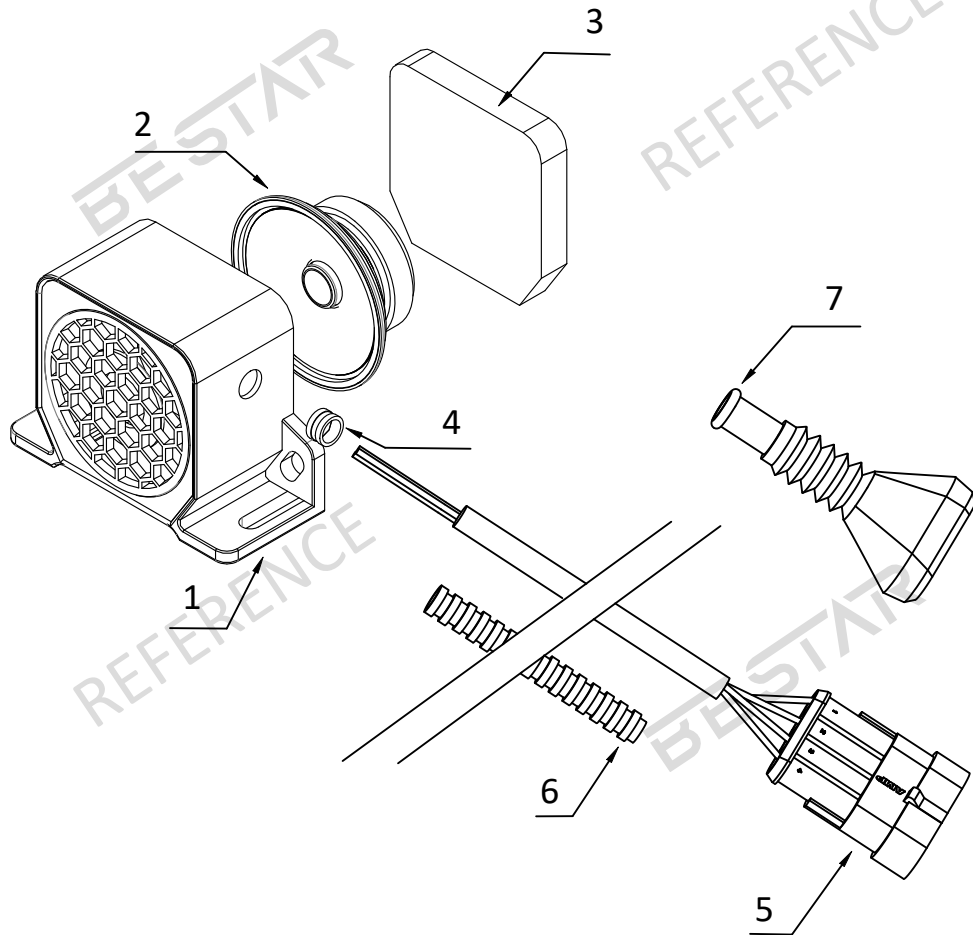
2. Test method:

The alarm is located in a free field or an equivalent fully anechoic room. The microphone is directed toward the alarm sound output opening along the zero degree axis and at the distance specified by the test requirement.



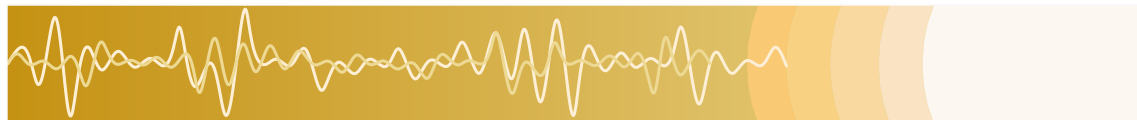


3.Part List

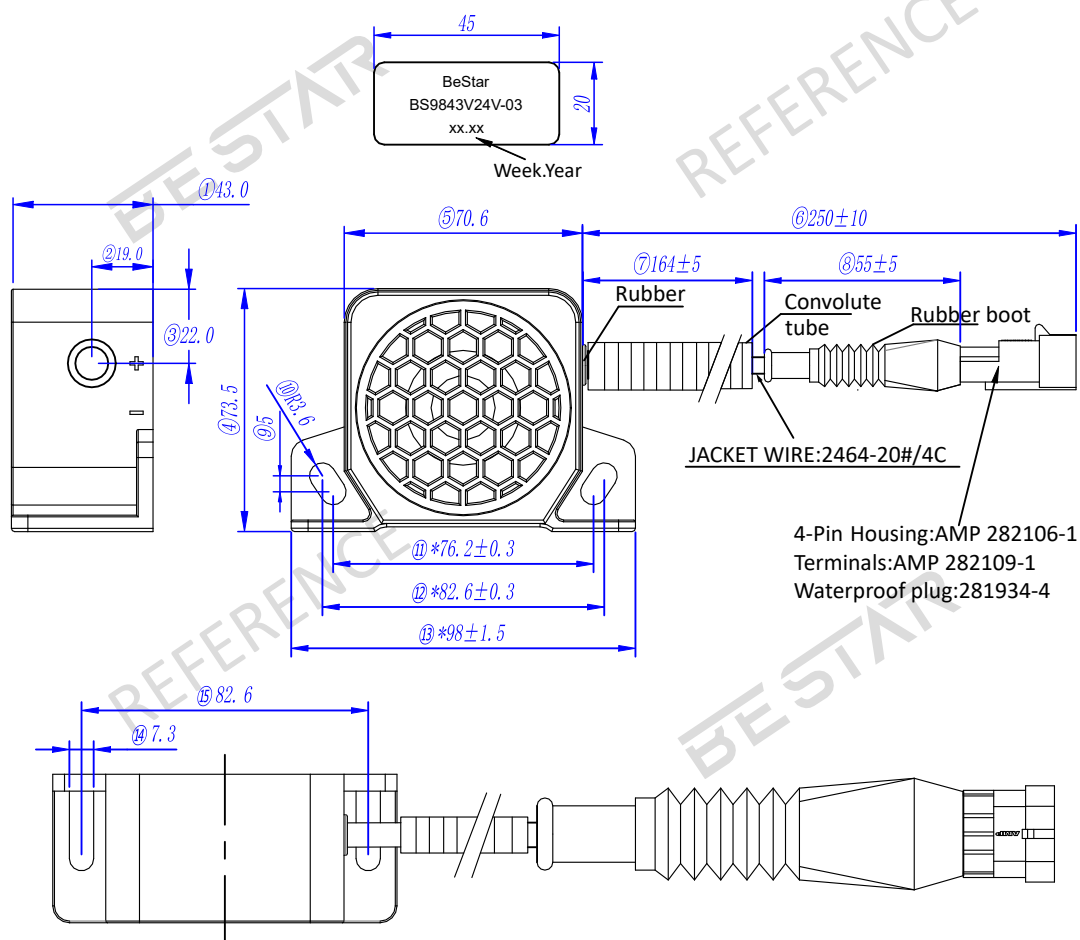
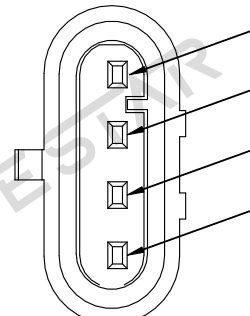


- 7.Rubber boot
- 6.Convolute tube
- 5.Connector with wire
- 4.Rubber ring
- 3.PCBA
- 2.Speaker
- 1.Housing

- Rubber
- 4-pin
- PVC
- Rubber
- FR-4
- Moving-coil
- PA66-GF15



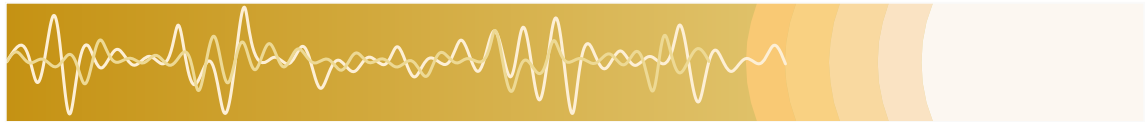
4.Dimension

| NO. | Color | Function |
|-----|--------|-----------------|
| 1 | White | VCC |
| 2 | Black | GND |
| 3 | Red | NIGHT SIGNAL |
| 4 | Yellow | DAYLIGHT SIGNAL |

Other dimension tolerance: ±0.5mm





5. Reliability test

5.1 low temperature storage

| | |
|-------------|-------|
| temperature | -40°C |
| duration | 24hrs |

5.2 High temperature storage

| | |
|-------------|-------|
| temperature | +85°C |
| duration | 48hrs |

5.3 High temperature with operation

| | |
|-----------------|-------|
| operate voltage | 28VDC |
| temperature | +85°C |
| Duration | 96hrs |

5.4 low temperature with operation

| | |
|-----------------|-------|
| operate voltage | 28VDC |
| temperature | -40°C |
| Duration | 24hrs |

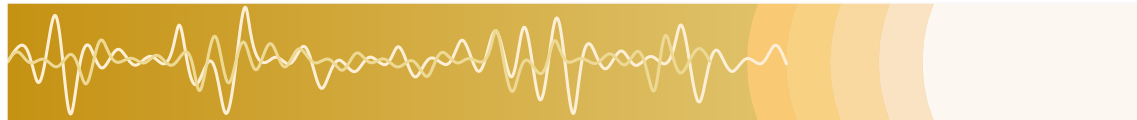
5.5 Durability test

| | |
|----------|-------------------------------------|
| Duration | 1000hrs actual continuous operation |
|----------|-------------------------------------|

5.6 damp heat steady-state test

| | |
|-----------------|--------------------------------|
| test duration | 21days |
| severity | (40±2) °C and (93±3) %humidity |
| operate voltage | 28VDC |
| operation | at the last hour of the test |





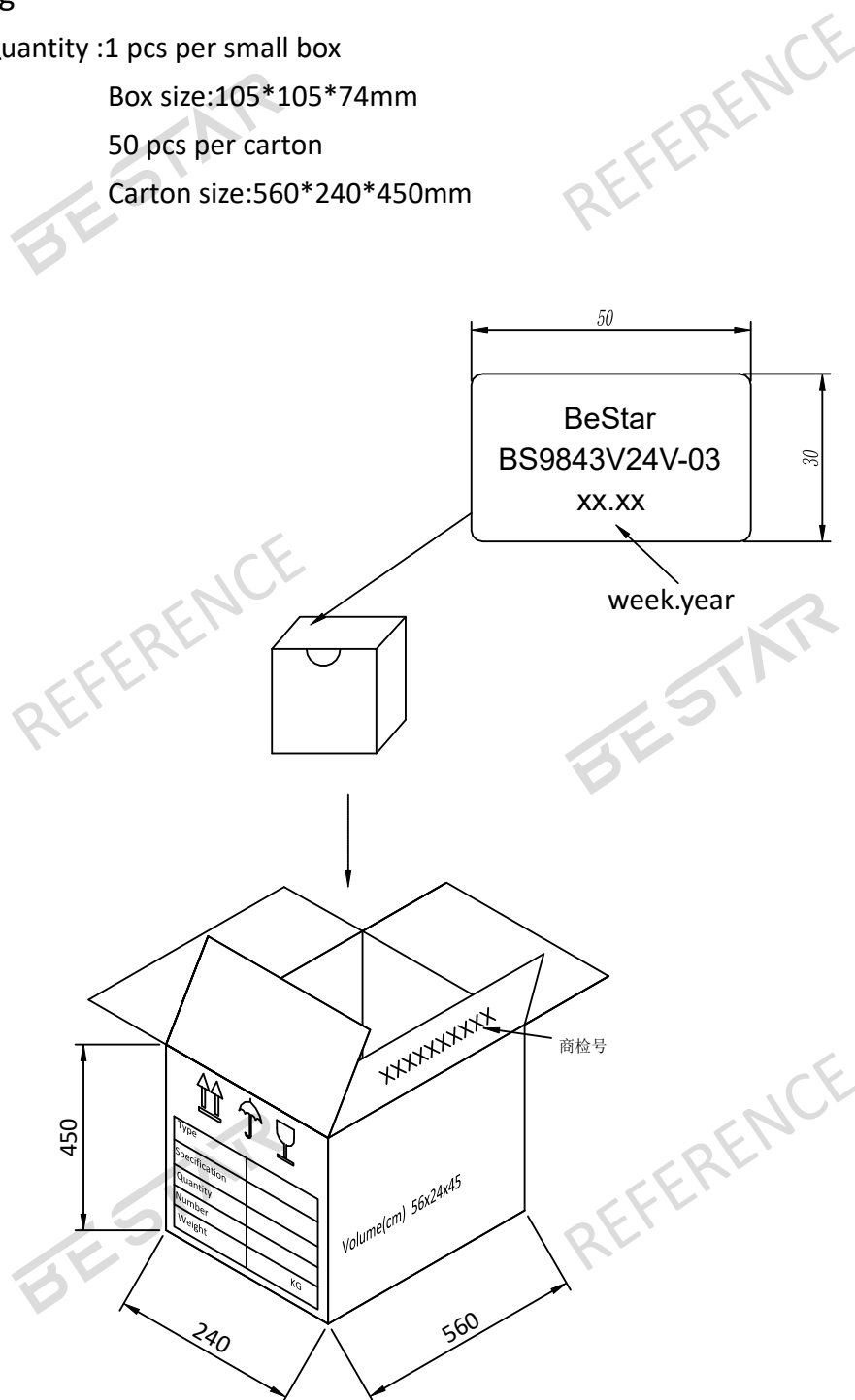
6. Packing

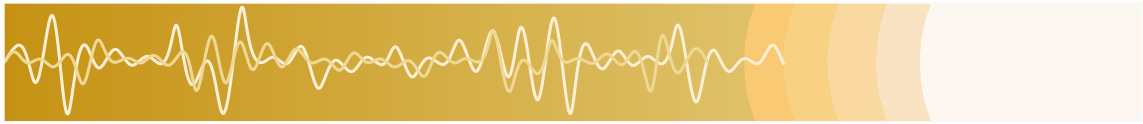
Packing Quantity :1 pcs per small box

Box size:105*105*74mm

50 pcs per carton

Carton size:560*240*450mm

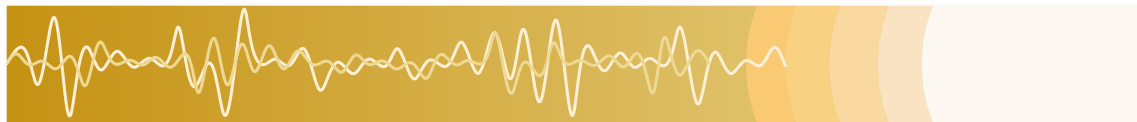




7. History change record

| Version | Change Items | Date | Drawn | Checked | Approved |
|---------|---------------|------------|---------------|-----------|---------------|
| A0 | First Edition | 2022.09.19 | Kaylee.Zhuang | Claire.Fu | Richard.Cheng |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |





8.Important Notice

8.1 The products mustn't be washed

8.2 Store Condition (Packing)

The products should be stored in the room ,where the temperature/humidity is stable. And avoid such places where there are large temperature changes. Please store the products at the following conditions:

Temperature: -10 to + 40 °C Humidity: 15 to 85% R.H.

8.3 Expire Date on Storage

Expire date (Shelf life) of the products is six months after delivered under the conditions of a sealed and an unopened package. Please use the products within six months after delivered.

If you store the products for a long time (more than six months), use carefully because the products may be degraded in the solderability and/or rusty.Please confirm solderability and characteristics for the products regularly.

8.4 Notice on Product Storage

- (1) Please do not store the products in a chemical atmosphere (Acids, Alkali, Bases, Organic gas, Sulfides and so on), because the characteristics may be reduced at quality, and/or be degraded in the solderability due to the storage in a chemical atmosphere.
- (2) Please use the products immediately after the package is opened, because the characteristics may be reduced at quality, and/or be degraded in the solderability due to storage under the poor condition.

