BeStar	SPECIFICATION FOR SPEAKER ALARM			
	TOTAL PAGE	07	www.bestargroups.com	RoHS

Customer		Model Name	BS9843V24V-01
Customer P/N		Product No.	11XXXX
Date	20 Jan. 2018	Issue No.	BS/TEA01.XXXA
Page	01 of 07	Issue Date	2018/01/20

Approval：

1. Characteristic
2. Test method
3. Drawing
4. Reliability Test
5. Packing
6. History change record

Drawn by	Checked by	Approved by	Customer approved
宣 泽 2018.01.20	龚 云 2018.01.20	程久生 2018.01.20	

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BS9843V24V-01



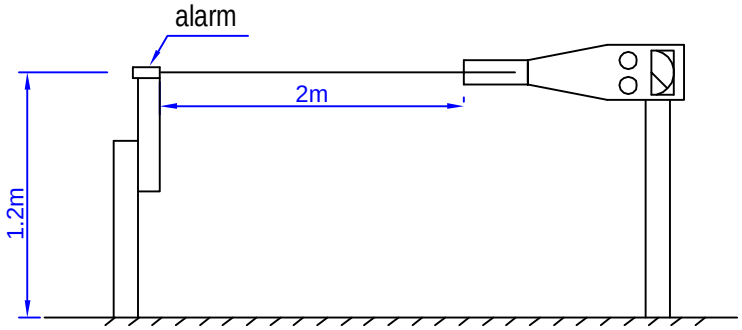
1.Technical Terms

No.	Type		Specifications
1.	Rated Voltage(DC)		24V
2.	Operating Voltage(DC)		16-32V
3.	Current Consumption		≤1A
4.	SPL at 2m	Day Mode	85±5dB
		Night Mode	65±5dB
5.	Tone		滴滴滴，右转弯请注意
6.	Resonant Frequency		1600Hz
7.	ON-OFF-cycles		45C/M±10
8.	Temperature Range		-40~+85°C
9.	Storage Range		-50~+85°C
10.	IP-rating		IP67
11.	Housing color		black

The product will not make any sound when only connecting to the power wire.
产品在只接电源线时不发出声音。
The product is in the day mode when not connecting to the headlights signal wire. It has high SPL.The product is in the night mode when connecting to the headlights signal wire.It has low SPL.
大灯信号线未接入时为白天模式，产品声压高；大灯信号线接入时为夜间模式，产品声压低。

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 openting along the zero degree axis and at the distance specified by the test requirement.



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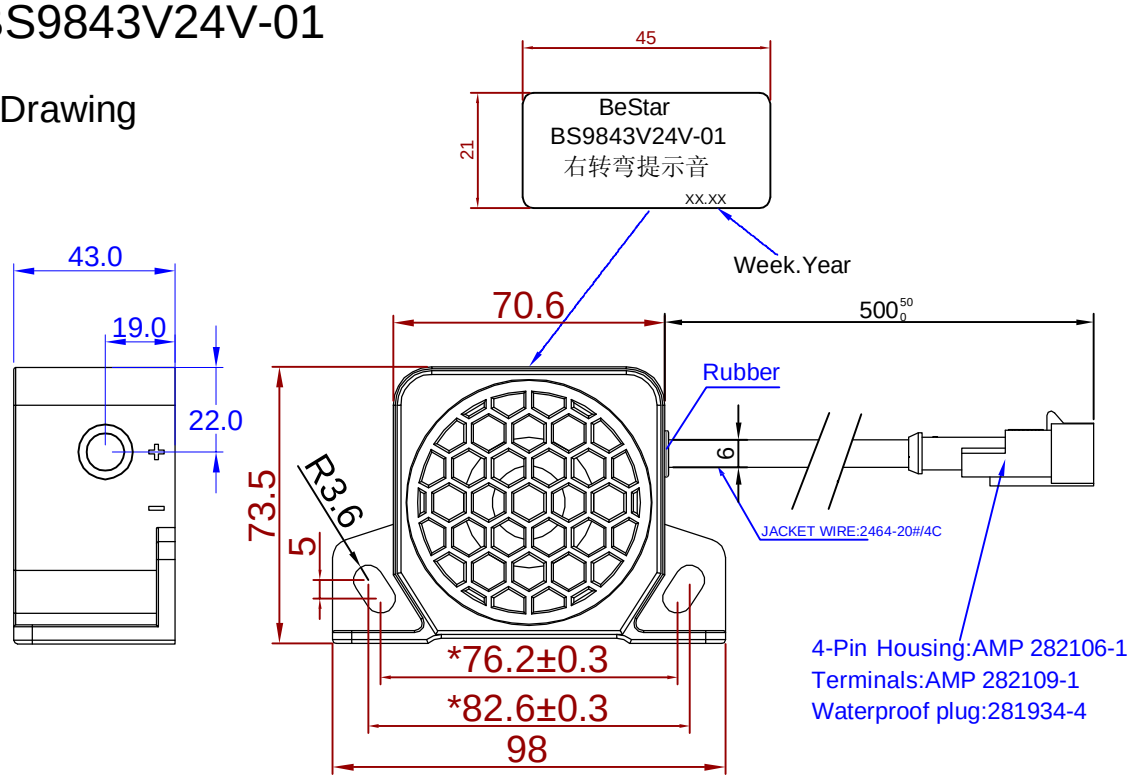
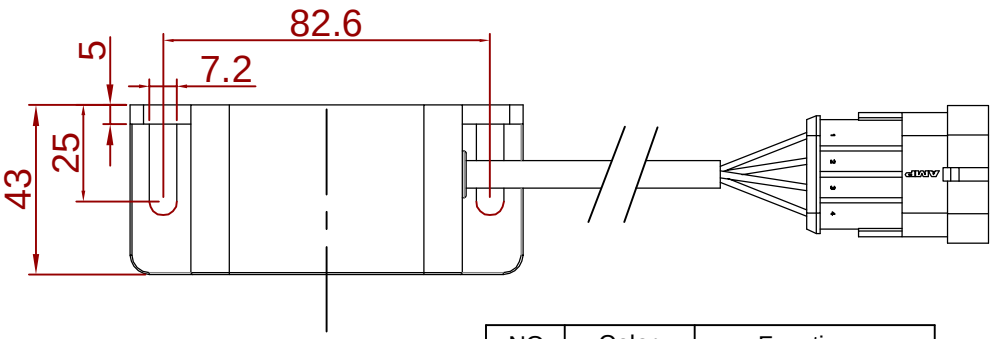
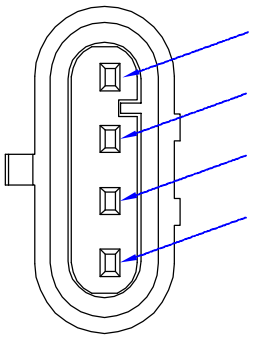
3.Drawing







NO.	Color	Function
1	White	VCC
2	Black	GND
3	Green	Daylight signal
4	Yellow	Night signal

*Other dimemsion tolerance:±0.5mm

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4.Reliability Test

4.1 **Temperature Test**

4.1.1 **Low Temperature,System Voltage Extremes (Test standard:SAE J994 7.1)**

Rated Voltage	Extreme Low System Voltage : 16VDC Extreme High System Voltage : 32VDC Nominal System Voltage : 24VDC
Duration	2hrs
Temperature	－40℃±3℃

4.1.2 **High Temperature,System Voltage Extremes(Test standard:SAE J994 7.2)**

Rated voltage	Extreme Low System Voltage : 16VDC Extreme High System Voltage : 32VDC Nominal System Voltage : 24VDC
Duration	2hrs
Temperature	＋85℃±3℃

4.2 **Rain Test**（**Test standard: SAE J994 7.3** ）

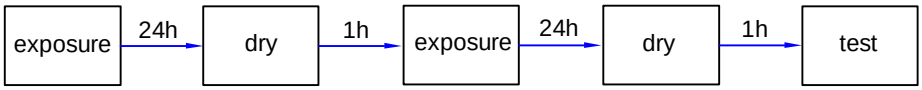
Precipitation rate	2.5(＋1.6/－0)mm/min
Duration	Min.2hrs
Direction	Delivered at an angle of 45 degrees from a nozzle with a solid cone spray and Subject all exposed sides of the alarm item to simulated blown rain.

4.3 **Vibration Test**

Vibration	15.32Grms,24-2kHz	W/power on or W/O

4.4 **Corrosion Test (Test standard: SAE J994 7.5)**

Duration 50hrs(NaCl 5%)



4.5 **High Pressure Hot Water Test**（**Test standard: SAE J994 7.6)**

Hot water temperature	Min. ＋85℃
Pressure	Min.6.9MPa
Flow rate	Min.18.9L/min
Direction	15 degree spray angle and distance alarm sound opening 300 mm

Spray and drain cycle is a cycle . Spray needs 10s and drain cycle needs 30s.A total of 50 cycles.

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4.6 **Dust Test (Test standard: SAE J994 7.7)**

Dust	50% fine and 50% coarse particles
Direction and Method	compress air or fan blower blasts in a downward direction to diffuse the dust uniformly throughout the cube
Duration	5hrs (Among them every 15min±0.5min for approximately a 2 s period compress air or fan blower blasts in a downward direction)

4.7 **Life test（Test standard: SAE J994 8)**

4.7.1 **Endurance Test at Low Temperature (Test standard: SAE J994 8.1)**

Power	15s ON then 15s OFF
Rated voltage	16±0.2 VDC
Temperature	－40℃±3℃
Duration	4hrs

4.7.2 **Endurance Test at High Temperature (Test standard: SAE J994 8.2)**

Power	15s ON then 15s OFF
Rated voltage	32±0.2 VDC
Temperature	＋85℃±3℃
Duration	4hrs

4.7.3 **Room Temperature Endurance Test (Test standard: SAE J994 8.3)**

Rated voltage	24±0.2 VDC
Temperature	＋25℃±11℃
Duration	100hrs

Notice: All specification must be satisfied in this condition.

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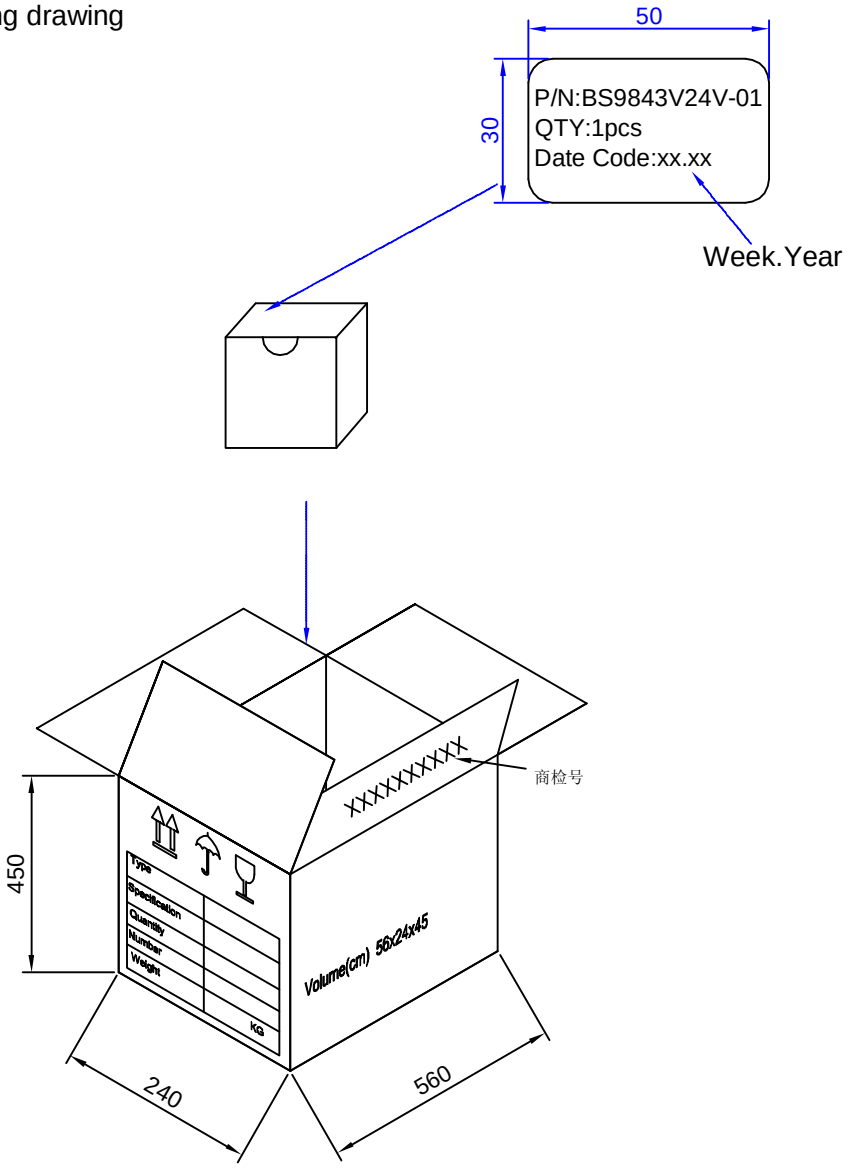
5.Packing

5.1Packing quantity: 1pcs per small box.
Box size: 105x105x74(mm)
Total 60 pcs per carton
Carton size: 56x24x45(cm)

5.2 Packing drawing



注：外盒尺寸：56x24x45cm

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6. History change record

version No.	Change Items		Date	Drawn	Approved
	Before	After			
A			18/01/20	宣 泽	程久生

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