



Product Specification

Ningbo East Electronics Limited
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Product Name:	Hight-Output Piezo Alarm
Part Number:	W-37LA100
Version:	1.02
Date:	2016-4-12
Note:	

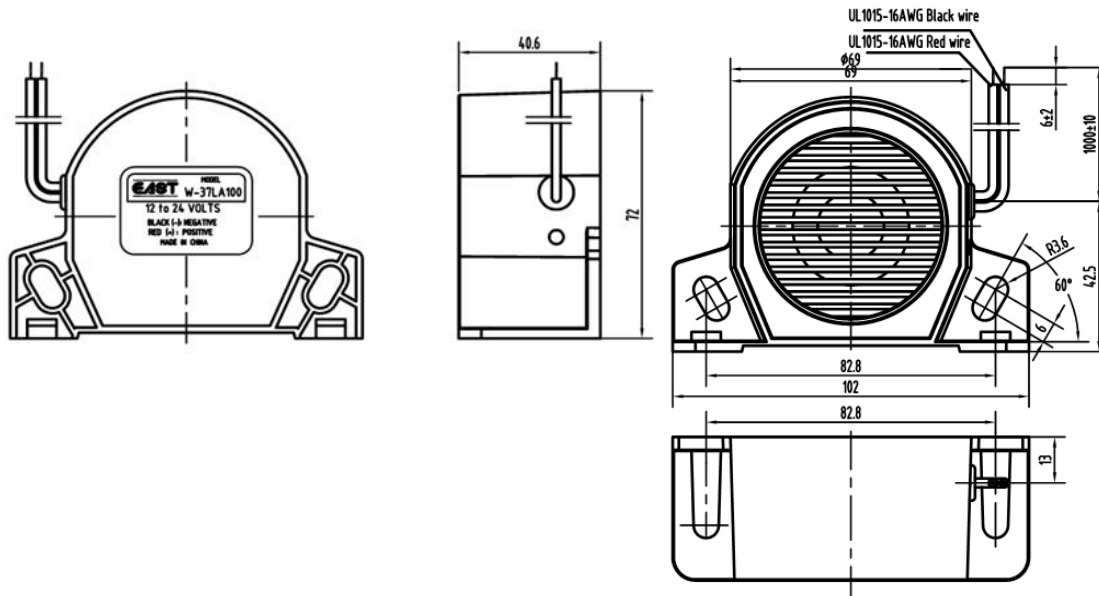
Company passed ISO 9001 / ISO TS16949 / ISO 14001 Certifications

Revision History

Rev.	Description	Author/Date	Checked By	Approver
1.02	Add the label at the back of the alarm.	俞凯 2016-4-12	汤礼东	王建成
1.01	Quality Certificate Symbol revised	刘进 2015-6-10	汤礼东	王建成
1.0	Released	吴磊 2013-7-24	张春雷	王建成

1. Part Number W-37LA100

2. Dimension Drawing (Unit: mm)



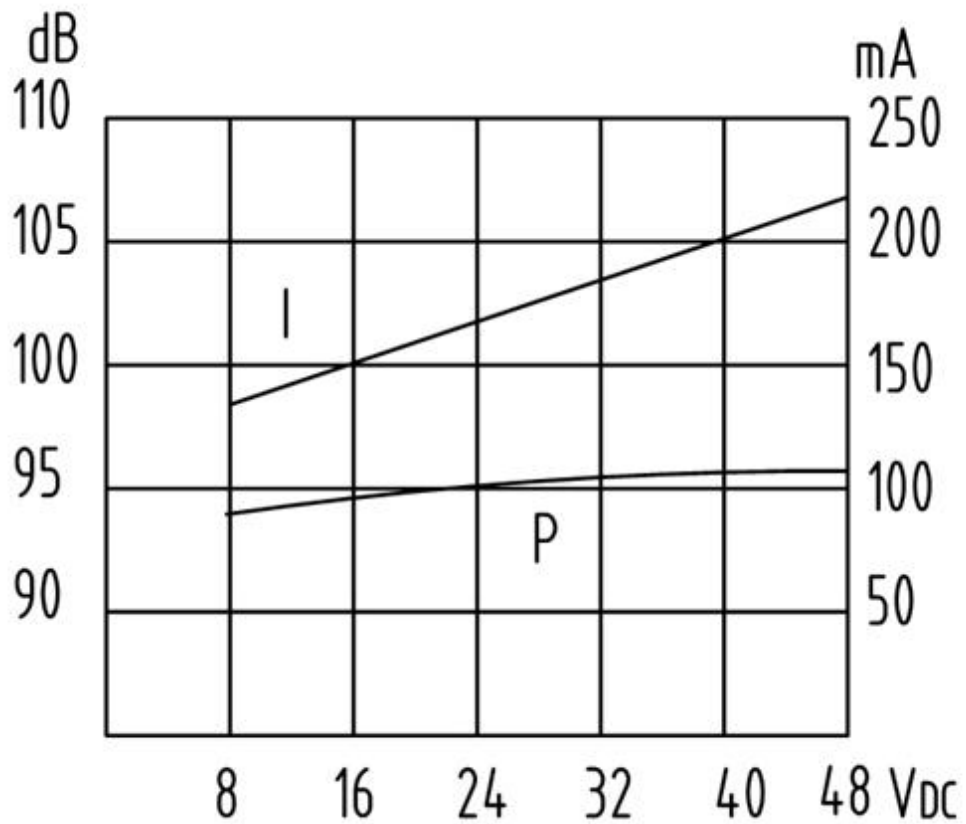
3. Specification

No.	Item	Specification
3-1	Min. Sound Pressure Level	93dB/14V _{DC} /100cm
3-2	Rate Voltage	14V _{DC}
3-3	Operating Voltage	12~48V _{DC}
3-4	Max. Consumption	800mA/14V _{DC}
3-5	Oscillating Frequency	1.2± 0.2kHz
3-6	Tone Nature	Dual Tone(fo=1.0±20%Hz)
3-7	Operating Temperature	-20~+70°C
3-8	Case Material /Color	PA66/Black
3-9	Weight	290g
3-10	Wire Standard	UL1015-16AWG

NOTES:

Test should be made under the conditions of room temperature (20±10°C), normal humidity (60±20%) and normal atmospheric pressure. In this case, however, that the judgment is questionable, the test conditions are to be changed to room temperature 20±2°C, relative humidity 60~70% and normal atmospheric pressure

4. Typical Frequency Response Curve

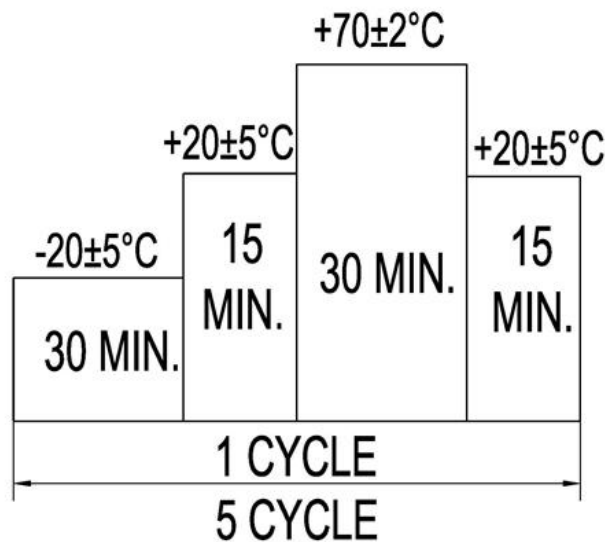


Note: Distance 100 cm

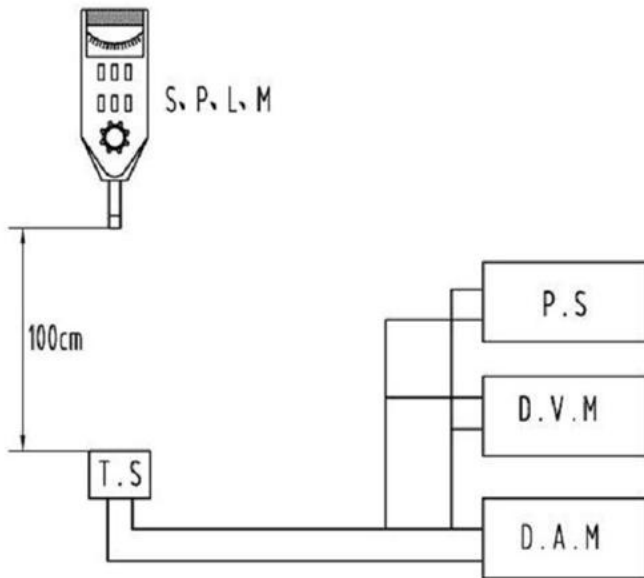
5. Reliability Test

No.	Item	Method of Test	Tolerance after Testing
5-1	Operating Temperature	-20~+70°C	Sound pressure level initial value $\pm 10\text{dB}$ Max. consumption value $\pm 20\%$ Oscillating Frequency value $\pm 20\%$
5-2	Storage in high temperature	Storage in +70°C test box 96 hours then exposed to the room temperature for 2 hours	
5-3	Storage in low temperature	Storage in -20°C test box 96 hours then exposed to the room temperature for 2 hours	
5-4	Life test in the room temperature	Operate the product continuously 5 seconds on 5 seconds off 96 hours at rated voltage	
5-5	Temperature / humidity cycle test	Storage in +40°C, 93 \pm 3%RH test box 96 hours then exposed to the room temperature for 2 hours	
5-6	Temperature (high and low) cycle test	Conduct the test for 5 cycles without applying power then expose to the room temperature for 2 hours.(See Figure 5-6)	
5-7	Vibration test	Conduct the test for the directions of X Y and Z for 0.5 hour each (total 1.5 hours). To-and Fri sweep time(from 10 to 55Hz and then 55 to 10) under single amplitude of 0.75mm is 3 minute, then expose to the room temperature for 2 hours	
5-8	Drop test	Drop a product naturally from the height of 700mm onto the surface of 100mm thick wooden board. Two directions: upper and side of the product are to be applied for this drop test once respectively	

Figure 5-6



6. Electrical Testing Method



S.P.L.M	Sound Pressure Level Meter
T.S	Testing Sample
P.S	Power Supply
D.V.M	DC Voltage Meter
D.A.M	DC Ampere Meter

7. Packing Information

Packing: 27 pcs per export carton

Carton Size: 36× 26× 19 cm

G. Weight: 9.3 kgs N. Weight: 7.8 kgs