

Audible Alarm with Revolving Light

TYPE : RT

Thank you very much for purchasing the Audible Alarm with Revolving Light. Before use, please read this manual thoroughly and use the product correctly. In addition, keep this manual in a safe place. When carrying out maintenance/check, repair etc., be sure to reread this manual. If an unclear point arises, please inquire to each office or technical consultation service written on the last page.

Safety Precautions

In order to prevent harm to users or other persons and damage to properties, the matters to be kept without fail are explained as followed property.

■ The degree of harm and damage that will occur when misuse is made by ignoring the contents of indication is classified and explained by the following indications.

- WARNING** The column with this indication shows the contents in which "possibility of death or being seriously injured is assumed."
- CAUTION** The column with this indication shows the contents in which "possibility of being injured or only occurrence of property damage is assumed."

1. Matters to be kept without fail for safety purpose

- WARNING**
 - Prior to wiring and mounting of products, be sure the voltage supply disconnected. There is a risk of electrical shock.
 - Do not disassemble or modify the product. There is a risk of fire, electrical shock etc. For repair, or checking inside the product, please inquire to each sales office or technical consultation service written on the last page.
 - Pay attention not to mistake wiring work. If wiring is mistaken, the internal circuit may burn out and it will become a cause of fire and/or failure.
 - Be sure to use the power supply within the allowable voltage range of the product. Otherwise, it may become a cause of fire and/or failure.
 - For mounting installation be sure to ask a professional company. Otherwise, there is a risk of electrical shock, fire and/or falling etc.

- CAUTION**
 - Be sure to connect the external fuse for protection of the power supply circuit and internal circuit of the product.
 - Do not use the bulb other than displayed in the label of product or described in "10. Specification". It may cause of breakdown/damaging of power supply by fire.
 - Close the dome before using the product. There is a risk of burn by generation of heat of the bulb, injury by rotation of reflector.

The trouble occurred due to mishandling against the warning and caution matters, and/or due to disassembling, modification, natural disaster etc. cannot be guaranteed. Further, avoid the usage under conditions other than the contents described in this manual.

- Request**
 - Use it in the environment where strong radio waves and/or inductive noise do not exist. Otherwise, there is a risk of noise generation from the horn.
 - Use it in the environment where corrosive gas does not exist. Otherwise, it will become a cause of failure.
 - In order to avoid electrostatic breakdown, start to work after discharging static electricity which is charged on the human body. By touching an earthed metallic part with a bare hand, static electricity can be discharged.
 - Perform fitting of each part at the recommended torque value.
 - If this product is used for the safety-sensitive security purpose, be sure to perform daily check, and establish the system design that can cope with the occurrence of accidental trouble and failure.
 - Do not leave it while the dome is cracked/removed. It may become a cause of breakdown, when water and dust enter the inside.

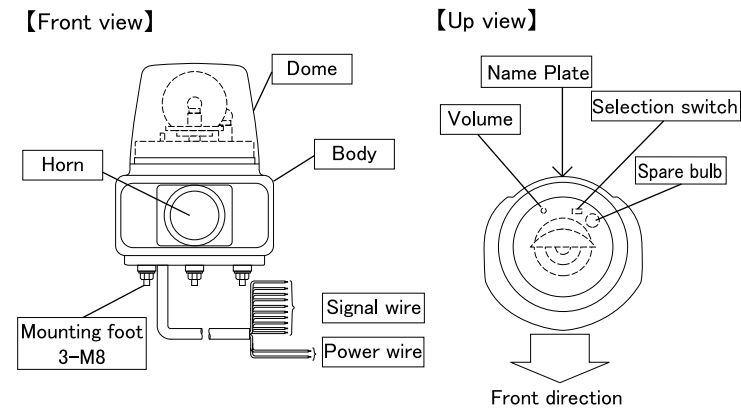
- Caution**
 - Although copyright licensing in Japan for the A, C, D type melodies have been obtained for the RT-□A/C/D at our company, since copyright licensing for other countries outside Japan has not been acquired, it is recommended the customer acquires it. However, the melodies in the RT-□E (E type) do not require copyright consent, therefore it is the recommended Sound to use in countries other than Japan.

2. Indication Method of Models

RT - 120 A - R

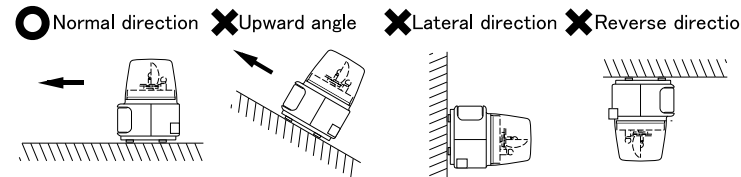
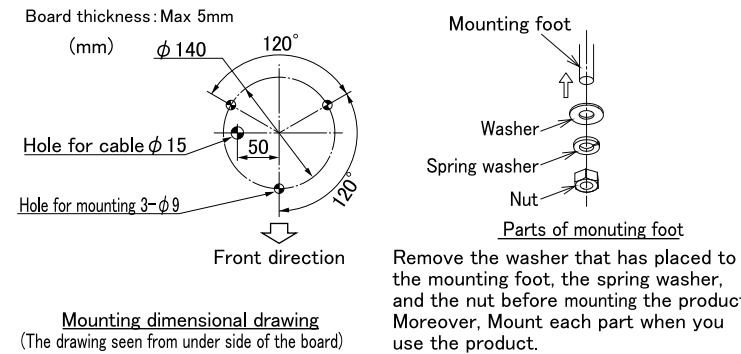
- Rated voltage
24 : 24V DC
120 : 120V AC
200 : 200V AC
- Sound type
A : A type
C : C type
D : D type
E : E type
- Dome color
R : Red
Y : Yellow
G : Green
B : Blue

3. Part Names



4. Installation

- Create mounting holes on a mounting surface. (See the mounting dimensional drawing)



- WARNING**
 - At the wiring and mounting of products, be sure the voltage supply disconnected. There is a risk of electrical shock.
 - For mounting installation be sure to ask a professional company. Otherwise, there is a risk of electrical shock, fire and/or falling etc.

- CAUTION**
 - Choose a location for the mounting surface where it has enough strength to support the weight of the product.

- Request**
 - When mounting it at a high place, choose the place where access exists for facilitating repair work.
 - If it is used under the connected state to the power supply, then provide a switch which can easily stop power supply in proximity to the product, for safety purpose.
 - Do not install the horn in an upward direction. Water and dust can enter, and it will cause breakdown.
 - Do not install for lateral or reverse direction
 - To prevent the product from falling in places where vibration may be generated, apply thread locking adhesive or the like, and perform periodic checking of the tightness of the mounting nuts.

- Other Precautions**
 - The clamp face might resonate by the material, the thickness of the clamp face, and the reproduction volume of the product, and the vibration sound being generated. Counter measures can be done by reinforcing the clamp face.
 - The bulb longevity shortens when using it in the place where the vibration is intense.

5. Wiring Installation

For the external contact of signal line, use non-voltage contact circuit such as relay switch or open collector circuit (NPN type). As for the contact capacity, see Table1, Table2 and Table3 below.

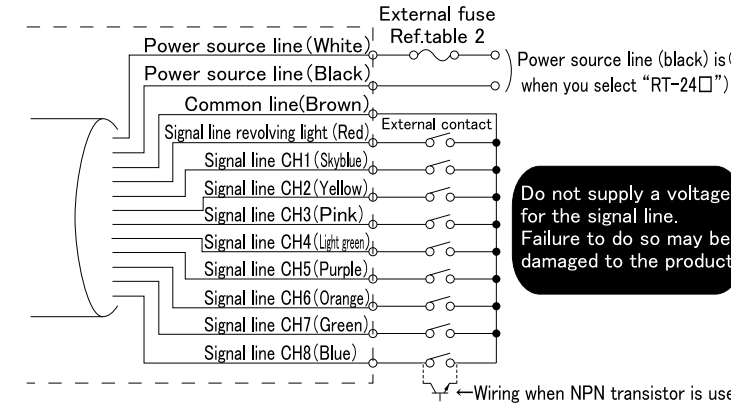


Table1. Circuit of signal line

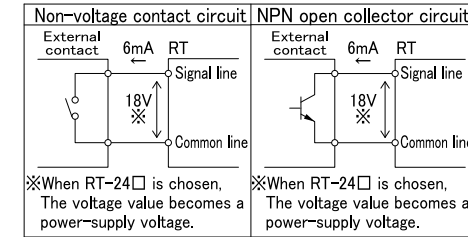


Table2. In rush current * Fuse

Model	Rush current	Fuse
RT-24□	Max. 10A / 20ms	250V 2A
RT-120□	Max. 2.5A / 20ms	250V 0.5A
RT-200□	Max. 2.5A / 20ms	250V 0.5A

Table3. Contact capacity

Current capacity	10mA or more
Withstand voltage	27V DC or more
Leakage current	0.1mA or more
ON voltage (Vsat)	1V or more

- WARNING**
 - At the wiring, be sure the product voltage supply is stopped. There is a risk of electrical shock.
 - Pay attention not to mistake wiring work. If wiring is mistaken, the internal circuit may burn out and it will become a cause of fire.

- CAUTION**
 - Be sure to connect the external fuse for protection of the power supply circuit and internal circuit of the product.

- Request**
 - Before switching on the power supply, confirm that the wiring is correctly performed.
 - For countermeasure of noise, it is recommended to make wiring as short as possible, and to use shielded wires. In addition, if a signal line is passing along high voltage cables or its wiring is located at the place likely to receive induction noise, there is a risk of malfunction by the effect of noise.
 - If a non-voltage contact such as a relay or a switch etc. is used for power supply line, select the contact for which inrush current is considered. If capacity is insufficient, it will become a cause of welding of the contact and/or malfunction.
 - When you use some products, divide each point of contact.

6. How to use the product

6-1. Selection switch

The following functions can be selected. Select sound groups Test play

6-1-1. Select sound groups (Selection switch No.1~3)

It is possible to select from eight kinds of sound groups (A~H) by operating selection switch No.1~3.

- Sound group A~G (Bit input)
The input mode is set to the bit input, play sound which selected CH No. of each group. (Refer to "7-1. Bit input".)

- Sound group H (Binary input)
The input mode is set to the binary input. The sound can be selected by using the signal line of CH1~CH6 in the binary input according to 32 sounds. (Ref. Binary code table, "7-2. Binary input".)

6-1-2. Test play (Selection switch No.4)

Play sound of CH1 by turning on Selection switch No.4. When the power source is supplied to the product. Use it when are you confirming the operation and adjusting the volume.

- Request**
 - Use a tool such as tweezers when you operate the selecting switch.
 - Do not add excessive force to the selecting switch. Otherwise, there is a risk of damage the product.
 - Do not connect the signal line with the common line, when you use the product selected test play. While connecting the signal line with the common line in test play mode, it is not possible to play other sounds.

● Sound type A (Model: RT-□A)

Sound groups

Group	GroupA	GroupB	GroupC	GroupD
CH1 (Skyblue)	Fur Elise	Mary had a little lamb	Amaryllis	Grandfather's clock
CH2 (Yellow)	Maiden's prayer	The camptown races	Symphony No.40	Ave maria
CH3 (Pink)	Minuet	Cuckoo	Silent lakeside	Daydream believer
CH4 (Light Green)	Annie Laurie	Blacksmith in the village	Mountain musician	London bridge is falling down
CH5 (Purple)	London bridge is falling down	On the avignon bridge	Romance de amour	Bell (clear highpitched bell)
CH6 (Orange)	Holdiria	Daydream believer	Petrouchka	Yelp (Rapid siren)
CH7 (Green)	Chime	Chime	Chime	Synthesized piano
CH8 (Blue)	Call Sign	Call Sign	Call Sign	Synthesized bell
Group	GroupE	GroupF	GroupG	GroupH
CH1 (Skyblue)	Romance de amour	Mary had a little lamb	Beep (Slow intermittent horn)	Binary mode Sound 1~32 can be selected by using CH1~CH6
CH2 (Yellow)	The camptown races	Symphony No.40	Stutter (Rapid intermittent horn)	
CH3 (Pink)	Minuet	Holdiria	Bell (Clear highpitched bell)	
CH4 (Light Green)	Ave maria	Daydream believer	Yelp (Rapid siren)	
CH5 (Purple)	Stutter + Bell	Rapid Hi-Lo	Rapid Hi-Lo	
CH6 (Orange)	Synthesized melody chime	Melody chime	Melody chime	
CH7 (Green)	Synthesized piano	Synthesized piano	Synthesized piano	
CH8 (Blue)	Synthesized bell	Synthesized bell	Synthesized bell	

Sound list

Sound No.	Sound No.	Sound No.	Sound No.
01 Beep (Slow intermittent horn)	09 Stutter + Bell	17 London bridge is falling down	25 Amaryllis
02 Stutter (Rapid intermittent horn)	10 Synthesized melody chime	18 Holdiria	26 Symphony No.40
03 Bell (Clear high pitched bell)	11 Chime	19 Mary had a little lamb	27 Silent lakeside
04 Yelp (Rapid siren)	12 Call Sign	20 The camptown races	28 Mountain musician
05 Rapid Hi-Lo	13 Fur Elise	21 Cuckoo	29 Romance de amour
06 Melody chime	14 Maiden's prayer	22 Blacksmith in the village	30 Petrouchka
07 Synthesized piano	15 Minuet	23 On the avignon bridge	31 Grandfather's clock
08 Synthesized bell	16 Annie Laurie	24 Daydream believer	32 Ave maria

Author 13:LUDWIG VAN BEETHOVEN 14:BADARZEWSKA BARANOWSKA TEKLA 15:BACH JOHANN SEBASTIAN 16:SCOTT LADY JOHN DOUGLAS 17:18-21-25-28-29-TRADITIONAL 19-27-PD 20:FOSTER STEPHEN COLLINS 22:Song authorized by the Ministry of education 23:WERNER HEINRICH (DE 2) 24:STEWART JOHN C 26:MOZART WOLFGANG AMADEUS 30:BLANTER MATVEJ ISAAKOVICH 31:WORK HENRY CLAY 32:SCHUBERT FRANZ

● Sound type C (Model: RT-□C)

Sound groups

Group	GroupA	GroupB	GroupC	GroupD
CH1 (Skyblue)	Can't Take My Eyes off of You	Canon	I Don't Want to Miss a thing	Imasugu Kisu Mi
CH2 (Yellow)	Top of the World	Rara sanshain	Yozorano Mukou	Haryuo Koi
CH3 (Pink)	The Entertainer	Uchuusenkan Yamato	Aiwa katsu	Uchuusenkan Yamato
CH4 (Light Green)	Amazing Grace	Oshiete	Truth	Rara sanshain
CH5 (Purple)	Amairono Kamino Otome	Makenaide	Gattsudaze	Can't Take My Eyes off of You
CH6 (Orange)	Les Champs-Elysees	Gonna fly Now! Theme for "Rocky"	Odoru Ponpokorin	Gonna fly Now! Theme for "Rocky"
CH7 (Green)	Chime	Chime	Chime	Chime
CH8 (Blue)	Call Sign	Call Sign	Call Sign	Call Sign
Group	GroupE	GroupF	GroupG	GroupH
CH1 (Skyblue)	Amairono Kamino Otome	Beep (Slow intermittent horn)	Odoru Ponpokorin	Binary mode Sound 1~32 can be selected by using CH1~CH6
CH2 (Yellow)	Makenaide	Stutter (Rapid intermittent horn)	Aiwa katsu	
CH3 (Pink)	Gattsudaze	Stutter + Bell	Truth	
CH4 (Light Green)	Top of the World	Synthesized melody chime	Les Champs-Elysees	
CH5 (Purple)	Canon	Synthesized piano	Amazing Grace	
CH6 (Orange)	Haryuo Koi	Synthesized bell	Yozorano Mukou	
CH7 (Green)	Chime	Chime	Chime	
CH8 (Blue)	Call Sign	Call Sign	Call Sign	

Sound list

Sound No.	Sound No.	Sound No.	Sound No.
01 Beep (Slow intermittent horn)	09 Stutter + Bell	17 Amairono Kamino Otome	25 I Don't Want to Miss a thing
02 Stutter (Rapid intermittent horn)	10 Synthesized melody chime	18 Les Champs-Elysees	26 Yozorano Mukou
03 Bell (Clear high pitched bell)	11 Chime	19 Canon	27 Aiwa katsu
04 Yelp (Rapid siren)	12 Call Sign	20 Rara Sanshain	28 Truth
05 Rapid Hi-Lo	13 Can't Take My Eyes off of You	21 Uchuusenkan Yamato	29 Gattsudaze
06 Melody chime	14 Top of the World	22 Oshiete	30 Odoru Ponpokorin
07 Synthesized piano	15 The Entertainer	23 Makenaide	31 Imasugu Kisu Mi
08 Synthesized bell	16 Amazing Grace	24 Gonna fly Now! Theme for "Rocky"	32 Haryuo Koi

Author 13:CREWE BOB 14:CARPENTER RICHARD LYNN 15:JOPLIN SCOTT 16:CARRELL JAMES P 17:Kouichi Sugiyama 18:WILSHAW MICHAEL 19:PACHELBEL JOHANN 20:Hiromasa Ijichi 21:Hiroshi Miyagawa 22:Takeo Watanabe 23-30:Tetsuro Oda 24:CONTI BILL 25:WARREN DIANE EVE 26:Yuka Kawamura 27:KAN 28:Masahiro Andoh 29:Totasa Matumoto 31:Tatuya Hirakawa 32:Yumi Matsutoya

● Sound type D (Model: RT-□□D)
Sound groups

Group	Group A	Group B	Group C	Group D
Signal line	ON 1 2 3 4	ON 1 2 3 4	ON 1 2 3 4	ON 1 2 3 4
CH1 (Skyblue)	Runner	HAPPY BIRTHDAY	She Wore a Yellow Ribbon	Yellow Rose of Texas
CH2 (Yellow)	Mamotte Agetai	HIHO	Oh My Darling Clementine	Yankee Doodle
CH3 (Pink)	Oribiao Kikinagara	I've been working on the Railroad	Yellow Rose of Texas	When the Saints Go Marching In
CH4 (light green)	A September	Bear Song	Yankee Doodle	Londonderry Air
CH5 (Purple)	Doyoubino Koibito	Toys Go Cha Cha Cha	When the Saints Go Marching In	Beep (Slow intermittent horn)
CH6 (Orange)	Akino Kehai	Konnako Irukana	Londonderry Air	Stutter (Rapid intermittent horn)
CH7 (Green)	Saafu Tengoku Sukii Tengoku	Wiegenlied	Runner	Chime
CH8 (Blue)	Iro Howaitoburendo	Rudolph the Red-nosed Reindeer	Mamotte Agetai	Call sign
Group	ON 1 2 3 4	ON 1 2 3 4	ON 1 2 3 4	ON 1 2 3 4
Signal line	ON 1 2 3 4	ON 1 2 3 4	ON 1 2 3 4	ON 1 2 3 4
CH1 (Skyblue)	Runner	Saafu Tengoku Sukii Tengoku	Doyoubino Koibito	Binary mode Sound 1~32 can be selected by using CH1-CH6
CH2 (Yellow)	Iro Howaitoburendo	Konnako Irukana	I've been working on the Railroad	
CH3 (Pink)	Wiegenlied	Oribiao Kikinagara	She Wore a Yellow Ribbon	
CH4 (light green)	HIHO	Rudolph the Red-nosed Reindeer	Yankee Doodle	
CH5 (Purple)	Bell (Clear high pitched bell)	Rapid Hi-Lo	Synthesized piano	
CH6 (Orange)	Yelp (Rapid siren)	Melody chime	Synthesized bell	
CH7 (Green)	Chime	Chime	Chime	
CH8 (Blue)	Call sign	Call sign	Call sign	

Sound list

Sound No.	Sound No.	Sound No.	Sound No.
01 Beep (Slow intermittent horn)	09 Chime	17 Saafu Tengoku Sukii Tengoku	25 Wiegenlied
02 Stutter (Rapid intermittent horn)	10 Call sign	18 Iro Howaitoburendo	26 Rudolph the Red-nosed Reindeer
03 Bell (Clear high pitched bell)	11 Runner	19 HAPPY BIRTHDAY	27 She Wore a Yellow Ribbon
04 Yelp (Rapid siren)	12 Mamotte Agetai	20 HIHO	28 Oh My Darling Clementine
05 Rapid Hi-Lo	13 Oribiao Kikinagara	21 I've been working on the Railroad	29 Yellow Rose of Texas
06 Melody chime	14 A September	22 Bear Song	30 Yankee Doodle
07 Synthesized piano	15 Doyoubino Koibito	23 Toys Go Cha Cha Cha	31 When the Saints Go Marching In
08 Synthesized bell	16 Akino Kehai	24 Konnako Irukana	32 Londonderry Air

Author 11:New Funky Sueyoshi 12:Yumi Matsutoya 13:Ami Ozaki 14:Tetsuji Hayashi 15:Tatsuro Yamashita 16:Kaizuma Ota 17:Yumi Matsutoya 18:Maruya Takeuchi 19:HILL MILDRED J 20:CHURCHILL FRANK E 21:22-27-29-30-31-32:TRADITIONAL 23:Nobuyoshi Koshibe 24:Takeshi Shibuya 25:SCHUBERT FRANZ 26:MARKS JOHN D 28:American folk song

● Sound type E (Model: RT-□□E)
Sound groups

Group	Group A	Group B	Group C	Group D
Signal line	ON 1 2 3 4	ON 1 2 3 4	ON 1 2 3 4	ON 1 2 3 4
CH1 (Skyblue)	Fur Elise	Minuet	Fur Elise	Alien Chatter
CH2 (Yellow)	Minuet	Annie Laurie	London bridge is falling down	Falling Crystals
CH3 (Pink)	Annie Laurie	Amaryllis	Mary had a little Lamb	Inverted Revelle
CH4 (light green)	London bridge is falling down	Symphony No.40	The camptown Races	Galatic Motor
CH5 (Purple)	Mary had a little Lamb	Grandfather's Clock	Amaryllis	Ringin' Phone
CH6 (Orange)	The camptown Races	Ave Maria	Grandfather's Clock	Two Tone
CH7 (Green)	Chime	Chime	Chime	Alarm Clock
CH8 (Blue)	Call sign	Call sign	Call sign	Ringin' Hi-Lo
Group	ON 1 2 3 4	ON 1 2 3 4	ON 1 2 3 4	ON 1 2 3 4
Signal line	ON 1 2 3 4	ON 1 2 3 4	ON 1 2 3 4	ON 1 2 3 4
CH1 (Skyblue)	Train Ride	Rapid Hi-Lo	Beep (Slow intermittent horn)	Binary mode Sound 1~32 can be selected by using CH1-CH6
CH2 (Yellow)	Galloping Hi-Lo	Chime	Stutter (Rapid intermittent horn)	
CH3 (Pink)	Inverted Revelle	Stutter (Rapid intermittent horn)	Bell (Clear high pitched bell)	
CH4 (light green)	Galatic Motor	Ringin' Phone	Yelp (Rapid siren)	
CH5 (Purple)	Alarm Clock	Stutter + Bell	Rapid Hi-Lo	
CH6 (Orange)	Ringin' Hi-Lo	Synthesized Melody Chime	Melody Chime	
CH7 (Green)	Synthesized Piano	Synthesized Piano	Synthesized Piano	
CH8 (Blue)	Synthesized Bell	Synthesized Bell	Synthesized Bell	

Sound list

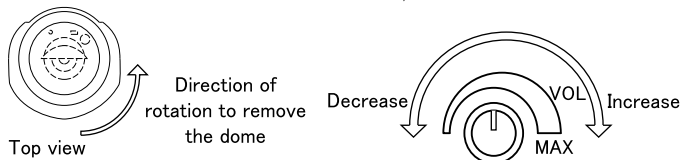
Sound No.	Sound No.	Sound No.	Sound No.
01 Beep (Slow intermittent horn)	09 Stutter + Bell	17 Inverted Revelle	25 Annie Laurie
02 Stutter (Rapid intermittent horn)	10 Synthesized Melody Chime	18 Galatic Motor	26 London bridge is falling down
03 Bell (Clear high pitched bell)	11 Chime	19 Ringing Phone	27 Mary had a little Lamb
04 Yelp (Rapid siren)	12 Call Sign	20 Two Tone	28 The camptown Races
05 Rapid Hi-Lo	13 Train Ride	21 Alarm Clock	29 Amaryllis
06 Melody chime	14 Galloping Hi-Lo	22 Ringin' Hi-Lo	30 Symphony No.40
07 Synthesized piano	15 Alien Chatter	23 Fur Elise	31 Ave Maria
08 Synthesized bell	16 Falling Crystals	24 Minuet	32 Grandfather's Clock

Author 23:LUDWIG VAN BEETHOVENG 24:BACH JOHANN SEBASTIAN 25:SCOTT LADY JOHN DOUGLAS 26-29:TRADITIONAL 27:PD 28:FOSTER STEPHEN 30:MOZART WOLFGANG AMADEUS 31:SCHUBERT FRANZ 32:WORK HENRY CLAY

6-2. Adjusting the volume

Volume can be adjusted using the volume control.

- Turn the dome counterclockwise, and remove it.
- If the volume on the inside is turned clockwise, the volume increases.



Request

- Turn the volume control lightly. It may be damaged if a torque of 0.3N·m or higher is applied.

Other Precautions

- When the volume becomes louder, the sound may be distorted in some messages.
- In some usage environments, the volume may not be zero even if the volume control is set to minimum.

7. How to play sound

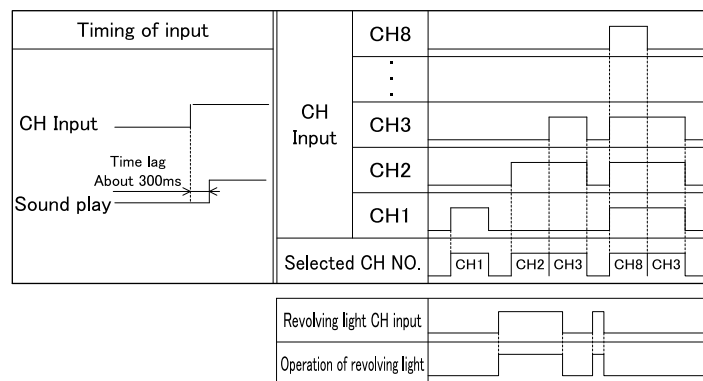
Supply the voltage to the power source line of the product. Sounds melody or alarm, when the common line (Color : Brown) and the signal line (CH1-CH8) are short-circuited.

This product can change the sound selected by the signal wire by changing the sound group setting of the selection switch. Moreover, Rotate the revolving light, when the common line (Color : Brown) and the signal line (Color : Red) are short-circuited. The sound and the revolving light keep operating while short-circuiting of each signal line. Moreover, it stops when removing it.

7-1.Bit input

When the common line and the signal line (CH1~CH8) are short-circuited, The sound which is selected by the signal line and the sound group of the selection switch is played.

- If two or more signal lines are connected simultaneously, the sound with a higher channel number is given priority, and it is played.
<Priority order for the CH1~CH8>
CH8>CH7>...>CH2>CH1



7-2.Binary input

When the common line and the signal line (CH1~CH6) are short-circuited,

The sound (01~32) is played by the signal line input according to the binary input code table. (Refer to "Table. Binary input code")

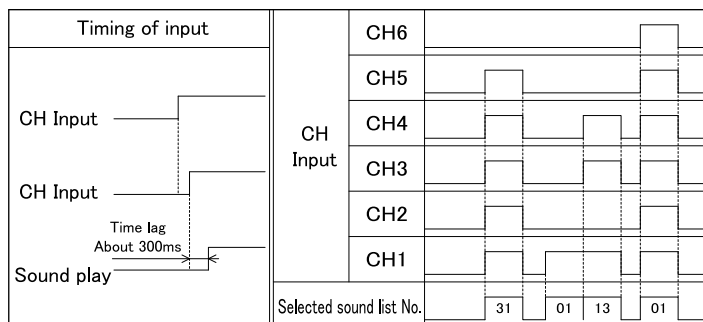


Table. Binary input code

Sound No.	CH1	CH2	CH3	CH4	CH5	CH6	Sound No.	CH1	CH2	CH3	CH4	CH5	CH6	Sound No.	CH1	CH2	CH3	CH4	CH5	CH6
01	1	0	0	0	0	0	12	0	0	1	1	0	0	23	1	1	1	0	1	0
02	0	1	0	0	0	0	13	1	0	1	1	0	0	24	0	0	0	1	1	0
03	1	1	0	0	0	0	14	0	1	1	1	0	0	25	1	0	0	1	1	0
04	0	0	1	0	0	0	15	1	1	1	1	0	0	26	0	1	0	1	1	0
05	1	0	1	0	0	0	16	0	0	0	0	1	0	27	1	1	0	1	1	0
06	0	1	1	0	0	0	17	1	0	0	0	1	0	28	0	0	1	1	1	0
07	1	1	1	0	0	0	18	0	1	0	0	1	0	29	1	0	1	1	1	0
08	0	0	0	1	0	0	19	1	1	0	0	1	0	30	0	1	1	1	1	0
09	1	0	0	1	0	0	20	0	0	1	0	1	0	31	1	1	1	1	1	0
10	0	1	0	1	0	0	21	1	0	1	0	1	0	32	0	0	0	0	0	1
11	1	1	0	1	0	0	22	0	1	1	0	1	0							

- * The "1" in this table means short-circuit of the sound signal line and the common line.
- * The "0" in this table means no short-circuit of the sound signal line and the common line.
- * In the case of short-circuit of the sound signal line (CH7 or CH8) and the common line, "01.Beep (slow intermittent horn)" is played.

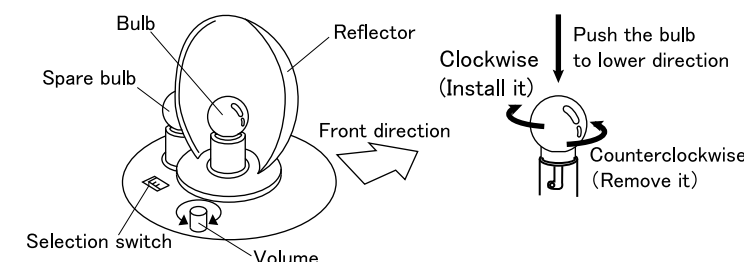
Request

- It is not a breakdown though a pop noise might be generated when canging changing the power on/off and start of playing. (The pop noise loudness is different in each product.)
- Even when some products are started at the same time, a delay is caused in the playing of the sound.

8.How to exchange the bulb

Exchange it for a spare bulb when the bulb is out.

- ① The supply of the power source voltage is removed.
- ② The dome is removed.(Ref. 6-2. Adjusting the volume)
- ③ After pushing the bulb down ,rotate it counterclockwise.
- ④ Remove it.
- ⑤ After pushing the spare bulb down ,rotate it clockwise.
- ⑥ Install it.



CAUTION

- When exchanging the bulb, be sure to remove the supply of the power source voltage. There is a risk of short circuiting.
- After the bulb cools, Remove it. There is a risk of being burned.
- Do not use the bulb other than displayed in the label of product or described in "10.Specification". It may become a cause of breakdown/damaging of power supply by a fire.

9. Before you request a repair

Symptom	Point to be checked	Correction (Reference item)
No sound is played	Is the power source supplied?	Confirm the wiring (5.How to perform wiring)
	Is the common line and the signal line (CH1~CH8) short-circuited correctly?	Confirm the wiring (5.How to perform wiring)
	Is the volume control not set to minimum?	Adjusting the volume (6.Adjusting the volume)
It plays a different CH	Is the common line and the signal line (CH1~CH8) short-circuited correctly?	Confirm the wiring (5.How to perform wiring)
	Is the setting of the selecting switch correct?	Confirm the selection switch (6-1. Selection switch)
The revolving light is not rotated and no lights.	Is the power source supplied?	Confirm the wiring (5.How to perform wiring)
	Is the common line and the signal line (Revolving light) short-circuited correctly?	Confirm the wiring (5.How to perform wiring)

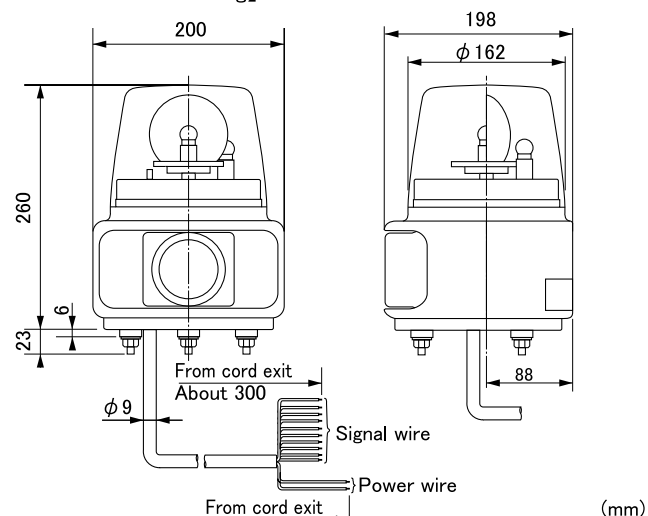
- If the product does not operate correctly even after it is properly installed and handled, contact a branch office or the technical support printed on the last page.

10. Specifications

Model	RT-24A/C/D/E	RT-120A/C/D/E	RT-200A/C/D/E
Rated Voltage	24V DC	120V AC(50/60Hz)	200V AC(50/60Hz)
Voltage Range	21~27V DC	108~132VAC	180~240V AC
Power Consumption	Max.24W	Max.32W	Max.30W
Flashing Cycle	115±30 Flashes per minute	105±30 Flashes per minute	95±30 Flashes per minute
Bulb	24V 20W	12V 15W	
	Type : G18/BA15S		
Maximum Sound Pressure Level	105dB or more (*1)		
CH Input	※The sound pressure level may be lower depending on the Sound, usage environment, and supplied voltage.		
Starting Time	Bit input : (the sound group of G from A) / Binary input : (the sound group of H)		
Number of Channels	300msec ore less (Operation by CH signal or turing on the power)		
Operation Temperature Range	Bit input : 8 Binary input : 32		
Relative Humidity	-20 ~ +50°C		
Mounting of Product	85%RH or lower (No condensation)		
Protection Rating	Normal direction (Indoor/outdoor) use only		
Insulation Resistance	IP 65		
Dielectric Strength	1MΩ and above (at 500V DC)		
	(Between current-carrying metal parts and non current-carrying metal parts)		
Resistance to Vibration	500V AC for 1 min. 1000V AC for 1 min. 1500V AC for 1 min.		
	(Between current-carrying metal parts and non current-carrying metal parts)		
Mass	19.6m/s ² (30Hz , Back and forth 2h/Right and left 2h/Up and down 4h)		
	2.0kg±10%		2.5kg±10%

- (*1)·· Condition for determination: Fit the product on the plate of 300mm, and measure the level with the sound 5."Rapid Hi-Lo" at the distance of 1m from the center the product, in the front direction.

[Outline Dimensional Drawing]



- Please note that we will not be held responsible for the failure or damage caused by handling the product in ways not observing the warnings or cautions contained in this document.
- Please note also that the contents in this document may be changed for improvement without notification in advance.

MEMO

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