Drawing No.	Rev.	Page
EHS-W18	F	1 / 13

SPECIFICATIONS

1. Specifications

Model EHS-M1 Rated Voltage DC10.8 V-DC 35V	1-1. General Specificat							
Rated Voltage DC12 V-DC 24V		ne	Melody/Alarm Horn					
Operating Voltage Range DC10.8 V-DC 35V			=					
Rated Power Consumption Max. 450mA Typ. 5.0W (at DC 12 V) Conditions At maximum volume and "Rapid Hi-Lo" alarm playback S.2W (at DC 12 V) Conditions At maximum volume and "Rapid Hi-Lo" alarm playback Conditions At maximum volume and "Rapid Hi-Lo" alarm playback Typ. S.9W (at DC 12 V) Conditions At maximum volume and "Rapid Hi-Lo" alarm playback Typ. Conditions At maximum volume and "Rapid Hi-Lo" alarm playback At DC 12 V Conditions At maximum volume and "Rapid Hi-Lo" alarm playback At DC 12 V Conditions At maximum volume and "Rapid Hi-Lo" alarm playback At DC 12 V Conditions At maximum volume and "Rapid Hi-Lo" alarm playback At DC 12 V At DC 13 In V Conditions At maximum volume and "Rapid Hi-Lo" alarm playback At DC 12 V								
Rated Power Consumption (for NPN/No-voltage)								
Conditions At maximum volume and "Rapid Hi-Lo" alarm playback	Rated Current Consumption							
Conditions	Rated Power							
(for NPN/No-voltage) Conditions At maximum volume and "Rapid Hi-Lo" alarm playback Typ. S.9W (at DC 12 V) S.9W (at DC 12 V) Conditions At maximum volume and "Rapid Hi-Lo" alarm playback Max. T.6W (at DC 31.6 V) Conditions At maximum volume and "Rapid Hi-Lo" alarm playback A or less (at DC12 V) Inrush Current 9A or less (at DC12 V) S.9A or less (at DC24 V) S.9A or less (at DC24 V) S.9A or less (at DC35 V) Operating Ambient Temperature -20 °C to +50 °C Operating Ambient Temperature -30 °C to +60 °C Storage Ambient Humidity Less than 85% (No condensation) Storage Ambient Humidity Less than 85% (No condensation) Indoors/Outdoors Upright Sideways Upside-down Upright Sideways Upside-down Upright Installation Upright Installation Sideways Upside-down Insulation Resistance 45.0m/s² IEC 60068-2-6:2007 (Upright Position) Insulation Resistance More than 1MΩ at 500VDC between the terminals and the chassis Withstand Voltage SouVAC applied for 1min between terminals and chassis without breaking insulation Upright Position Operating Ambient Upright Position Sound Pressure Level Maximum: 110 dB Environmental Condition Volume at maximum and "Stutter" alarm played Sounds of 1,000 times (3 axis 1 direction); 500m/s² 11ms for 3 times (3 axis both direction Insulation Resistance IEC 60068-2-27:2008 (Upright Position) Insulation Resistance IEC 6006			At maximum volume and "Rapid Hi-Lo" alarm playback			At maximum volume and "Rapid Hi-L		
Rated Power Consumption (for PNP/Voltage Input) Rated Power Consumption (for PNP/Voltage Input) Inrush Current Operating Ambient Temperature Operating Ambient Temperature Storage Ambient Humidity Storage Ambient Humidity Mounting Location Protection Rating Environmental Condition Wibration Resistance Insulation Resistance Withstand Voltage Sound Pressure Level Environmental Condition Mass (Tolerance ±10%) Outer Dimensions At maximum volume and "Rapid Hi-Lo" alarm playback At maximum playback At maximum playback At maximum volume and "Rapid Hi-Lo" alarm playback At maximum playback At maximum volume and "Rapid Hi-Lo" alarm playback At maximum playback At maximum volume and "Rapid Hi-Lo" alarm playba	•							
Consumption (for PNP/Voltage Input) Conditions Max. T.6W (at DC 31.6 V)	(101 NF N/NO-VOILage)		At maximum volume and "Rapid Hi-Lo" alarm playback		n playback			
Consumption (for PNP/Voltage Input) Max. T.6W (at DC 31.6 V)	Rated Power							
Conditions At maximum volume and "Rapid Hi-Lo" alarm playback			At maxim		n playback			
Inrush Current At A or less (at DC12 V)								
Inrush Current 9A or less (at DC24 V) 12.5A or less (at DC35 V) 12.5A or less	(1011 141 / Voltage Input)	Conditions	At maxim		ı playback			
12.5A or less (at DC35 V) Operating Ambient Temperature -20 °C to +50 °C Operating Ambient Humidity Less than 85% (No condensation) Storage Ambient Temperature -30 °C to +60 °C Storage Ambient Humidity Less than 85% (No condensation) Mounting Location Indoors/Outdoors								
Operating Ambient Temperature	Inrush Curre	nt		1 1				
Operating Ambient Humidity Storage Ambient Temperature -30 °C to +60 °C								
Storage Ambient Temperature Storage Ambient Humidity Less than 85% (No condensation) Mounting Location Upright Sideways Upside-down Protection Rating Environmental Condition Uibration Resistance Withstand Voltage Sound Pressure Level Environmental Condition Upright Sideways Upside-down Upright Installation Upright Installation Upright Position) Upright Installation Upright Position) Upright Installation Upright Position) Upright Installation Upright Position) Upright Position) Upright Position) Upright Position) Upright Position Upright Position) Upright Position from horn opening at a distance of 1m. Upright position from horn opening at a distance of 1m. Volume at maximum and "Stutter" alarm played Upright Position) 1.25kg Outer Dimensions								
Storage Ambient Humidity Less than 85% (No condensation)								
Mounting Location					`			
Upright Sideways Upside-down)			
Mounting Direction Protection Rating IP65 (IEC 60529) Environmental Condition Upright Installation Vibration Resistance 45.0m/s² IEC 60068-2-6:2007 (Upright Position) Insulation Resistance More than 1MΩ at 500VDC between the terminals and the chassis Withstand Voltage 500VAC applied for 1min between terminals and chassis without breaking insula Sound Pressure Level Maximum: 110 dB Environmental Upright position from horn opening at a distance of 1m. Volume at maximum and "Stutter" alarm played Impact Resistance 250m/s² 6ms for 1,000 times (3 axis 1 direction); 500m/s² 11ms for 3 times (3 axis both directing in the color of the color o	Mounting Loca	ition						
Protection Rating IP65 (IEC 60529) Environmental Condition Upright Installation			Upright	Sideways	Upside-down			
Environmental Condition Upright Installation	Mounting Direc	ction						
Vibration Resistance 45.0m/s² IEC 60068-2-6:2007 (Upright Position) Insulation Resistance More than 1MΩ at 500VDC between the terminals and the chassis Withstand Voltage 500VAC applied for 1min between terminals and chassis without breaking insula Sound Pressure Level Maximum: 110 dB Environmental Upright position from horn opening at a distance of 1m. Condition Volume at maximum and "Stutter" alarm played Impact Resistance 250m/s² 6ms for 1,000 times (3 axis 1 direction); 500m/s² 11ms for 3 times (3 axis both direction) Mass (Tolerance ±10%) 1.25kg Outer Dimensions 7. Outer Dimensions	Protection Rat	ting	IP65 (IEC 60529)					
Insulation Resistance More than 1MΩ at 500VDC between the terminals and the chassis	Environme	ntal Condition						
Withstand Voltage Sound Pressure Level Environmental Condition Impact Resistance Mass (Tolerance ±10%) Withstand Voltage 500VAC applied for 1min between terminals and chassis without breaking insula Maximum: 110 dB Upright position from horn opening at a distance of 1m. Volume at maximum and "Stutter" alarm played 250m/s² 6ms for 1,000 times (3 axis 1 direction); 500m/s² 11ms for 3 times (3 axis both direction); 500m/s² 11ms for 3 times (3 axis both direction) 1.25kg Outer Dimensions 7. Outer Dimensions	Vibration Resist	tance	45.0n	n/s ² IEC 60068-2-6:2007 (Upright Po	sition)			
Sound Pressure Level Maximum: 110 dB Environmental Upright position from horn opening at a distance of 1m. Condition Volume at maximum and "Stutter" alarm played Impact Resistance 250m/s² 6ms for 1,000 times (3 axis 1 direction); 500m/s² 11ms for 3 times (3 axis both direction); 600m/s² 11ms for 3 times (3 axis both direction); 600m/s² 11ms for 3 times (3 axis both direction); 600m/s² 11ms	Insulation Resis	tance						
Environmental Condition Upright position from horn opening at a distance of 1m. Volume at maximum and "Stutter" alarm played Impact Resistance 250m/s² 6ms for 1,000 times (3 axis 1 direction); 500m/s² 11ms for 3 times (3 axis both direction); 500m/s² 11ms for 3 times (3 axis both direction); 500m/s² 11ms for 3 times (3 axis both direction); 1.25kg Outer Dimensions 7. Outer Dimensions	Withstand Volt	age	500VAC applied for 1m	in between terminals and chassis wi	thout breaking insulation			
ConditionVolume at maximum and "Stutter" alarm playedImpact Resistance250m/s² 6ms for 1,000 times (3 axis 1 direction); 500m/s² 11ms for 3 times (3 axis both direction)Mass (Tolerance ±10%)1.25kgOuter Dimensions7. Outer Dimensions	Sound Pressure	Level						
Impact Resistance250m/s² 6ms for 1,000 times (3 axis 1 direction); 500m/s² 11ms for 3 times (3 axis both direction)Mass (Tolerance ±10%)1.25kgOuter Dimensions7. Outer Dimensions								
IEC 60068-2-27:2008 (Upright Position)	Cor	ndition						
Mass (Tolerance ±10%) Outer Dimensions 1.25kg 7. Outer Dimensions	Impact Resista	nce	250m/s ² 6ms for 1,000 times (3 axis 1 direction); 500m/s ² 11ms for 3 times (3 axis both directions)					
Outer Dimensions 7. Outer Dimensions	Mass (Tolerance	±10%)	1.25kg					
SD Card / SDHC Card			7. Outer Dimensions					
I SUDDOMED MEMORY Card	Supported Memor	ry Card	SD Card / SDHC Card Recommended Parts: SDV-2GP (option)					
	SD Card Form	nat	FAT 16, 32					
	OD Calu i Oili	nut	EMC Directive (EN 61000-6-4, EN 61000-6-2)					
RoHS Directive (EN 01000-0-2) RoHS Directive (EN 50581) UL 464, CSA-C22.2 No. 205-M1983 FCC Part15 SubpartB Class A KC (KN22, KN24)	Compliance Star	ndards	RoHS Directive (EN 50581) UL 464, CSA-C22.2 No. 205-M1983 FCC Part15 SubpartB Class A					
Remarks UL Listed (File No.S24210)	Remarks							

Drawing No.	Rev.	Page
EHS-W18	F	2 / 13

Product Nar	ne	Melody/Alarm Horn		
Model		EHS-M2		
Rated Volta	ge		AC100V - AC240V (50/60Hz)	
Operating Voltage	e Range		AC90V - AC264V (50/60Hz)	
Rated Current Consumption	Max.		140mA	
Rated Power	Тур.		6.9W (at AC 240 V)	
Consumption	Conditions	At maxin	num volume and "Rapid Hi-Lo" alarr	n playback
(for NPN/No-voltage)	Max.		7.3W (at AC 264 V)	
(101 INFIN/INO-Voltage)	Conditions	At maxin	num volume and "Rapid Hi-Lo" alarr	n playback
			6A or less (at AC 100 V)	
Inrush Curre	nt		15A or less (at AC 240 V)	
			23A or less (at AC 264 V)	
Operating Ambient T	emperature		-20 °C to +50 °C	
Operating Ambient			Less than 85% (No condensation)
Storage Ambient Te			-30 °C to +60 °C	
Storage Ambient I			Less than 85% (No condensation	n)
Mounting Loca	ation		Indoors/Outdoors	
		Upright	Sideways	Upside-down
Mounting Dire	ction			
Protection Ra	ting	IP65 (IEC 60529)		
Environme	ntal Condition	Upright Installation		
Vibration Resis	tance		s ² JIS C 60068-2-6:2010 (Upright In	
Insulation Resis	tance		Ω at 500VDC between the terminals	
Withstand Vol		1500VAC applied for 1n	nin between terminals and chassis v	vithout breaking insulation
Sound Pressure	Level		Maximum: 110 dB	
Enviro	onmental		position from horn opening at a dista	
Col	ndition	Volui	me at maximum and "Stutter" alarm	played
Impact Resista	ance	250m/s ² 6ms for 1,000 times (3 axis 1 direction); 500m/s ² 11ms for 3 times (3 axis both directions) IEC 60068-2-27:2008 (Upright Position)		
Mass (Tolerance	±10%)	1.25kg		
Outer Dimensions		7. Outer Dimensions		
Cupported Memo	ny Card	SD Card / SDHC Card		
Supported Memo	iy Caiu	Recommended Parts: SDV-2GP (option)		
SD Card For	mat	FAT 16, 32		
			UL 464, CSA-C22.2 No. 205-M198	3
Compliance Sta	ndards	FCC Part15 SubpartB Class A		
			KC (KN22, KN24)	
Remarks			UL Listed (File No.S24210)	
		There are no contents of controlled substances exceeding the threshold for the RoHS Directive.		

Drawing No.	Rev.	Page
EHS-W18	F	3 / 13

1-2. Performance Specifications

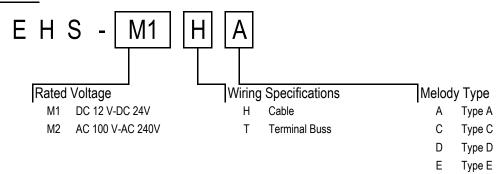
	Volume Adjustable: Min Max.		
Volume Control	Sound Reduction Input: It is a value specified as a reduction from the		
	currently adjusted volume.(None, -10dB, -20dB, -30dB selection)		
Sound Playback	Alarm/Melody (Fixed)		
Number of Playback Channels	Bit Input: 8/binary input: 32		
Alarm/Melody	8. Sound List Reference		
Playback start-up time	300ms or less (Signal Input and Power Supply Startup)		

1-3. Signal Input Specification

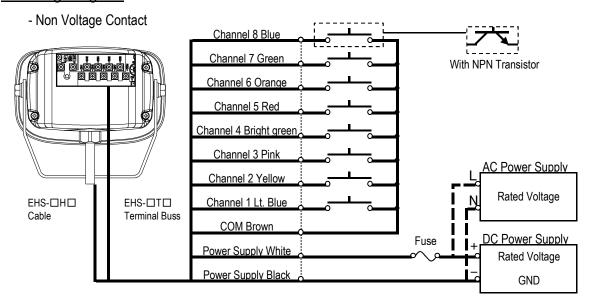
1-3. Signal Input Specification Signal Input Condition	Hold Input		
Signal Input Priority	Channel 8 > Channel 7 > Channel 6 > Channel 5 > Channel 4 > Channel 3 > Channel 2 > Channel 1 (except for a binary input)		
Contact Control Method	[EHS-M1]: Non-voltage/Voltage Contact [EHS-M2]: Non-voltage Contact		
Contact Closed-Circuit Current		or less	
Contact Open-Circuit Voltage	【EHS-M1】:6V or less	[EHS-M2]:8V or less	
Contact Input (Circuit Configuration)	Non-voltage Contact EHII-M1:9V EHII-M2:12V CH COM 4mA ~ 9mA	Voltage Contact (EHS-M1 Only) External Supply 10.8V ~ 31.6V 3mA ~ 12mA CH Insulating COM	
Transistor Input (Circuit Configuration)	NPN Transistor EH□-M1:9V EH□-M2:12V AmA ~ 9mA	PNP Transistor (EHS-M1 Only) External Supply 10.8V ~ 31.6V 3mA ~ 12mA CH Insulating COM	

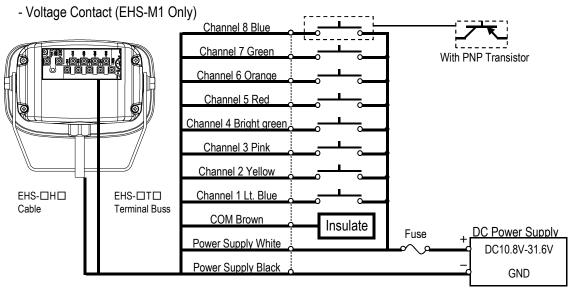
Drawing No.	Rev.	Page
EHS-W18	F	4 / 13

2. Model



3. Wiring Diagram



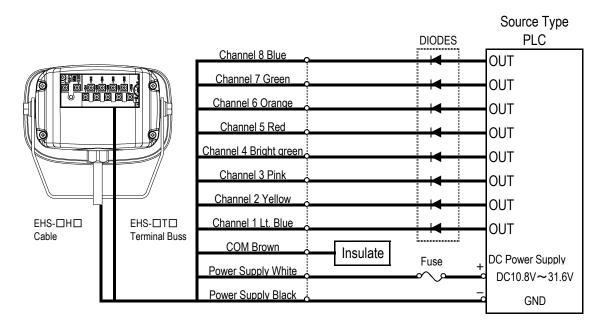


- * Each channel color is indicated by the cable or lead wire.
- * Voltage contact input should be in the range of DC10.8 V to DC31.6 V.
- * When using the Terminal type model, round terminals with M3 insulated coating is recommended when wiring to the Terminal.

Recommended Parts: J.S.T. Manufacturing Co., Ltd. N1.25-3 (article corresponding to RoHS)

Drawing No.	Rev.	Page
EHS-W18	F	5 / 13

When connecting a Source-type PLC, be sure to insert a diode as indicated in the drawing below. Failure to insert a diode will lead to possible malfunction.

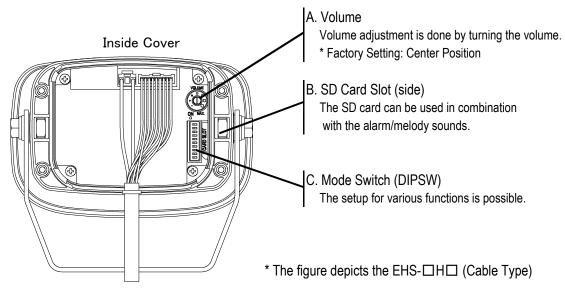


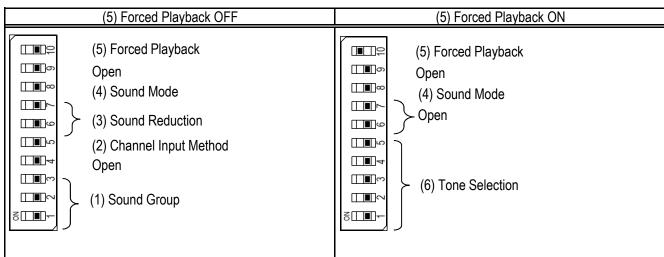
XSelect a diode with ratings indicated below.

Forward Current	50mA or more
Reverse Voltage	50V or more

Drawing No.	Rev.	Page
EHS-W18	F	6 / 13

4. Part Names and Functions





Mode Switch Function List

Function Name	Setting Index	Details
(1) Sound Group	Groups A-H * The user can edit sounds for group H.	Refer to "5-1. Sound Group."
(2) Channel Input Method	Binary/Bit	Refer to "5-2. Channel Input Method."
(3) Sound Reduction	No sound reduction/ -10dB/-20dB/-30dB	Refer to "5-3. Sound Reduction."
(4) Sound Mode	Factory Mode / Public Address Mode	Refer to "5-4. Sound Mode."
(5) Forced Playback	Forced Playback ON/OFF	Pofor to "5.5. Forced Blayback."
(6) Tone Selection	Playback Sound Selection	Refer to "5-5. Forced Playback."

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Drawing No.	Rev.	Page
EHS-W18	F	7 / 13

5. Functionality Details

5-1. Sound Group

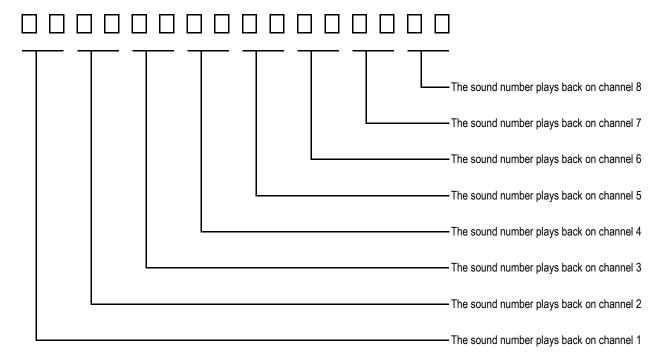
The sound groups that can be played back are selectable from eight groups of A through H with the Mode Switch (DIPSW). (For bit input)

A sound group cannot be selected when "(2) channel input method" is set for binary.

Sounds for group H can be rearranged freely.

In order to transfer the setting data, the SD card can be used for recombination and transmitting it to the product. Setting data is created as regular data in a text format and the name is saved as OTO-LIST.TXT.

Refer to "8. Sound List" for the Mode Switch (DIPSW) and sound group combination which can be selected.



^{*} Refer to "8. Sound List" for the sound numbers.

^{*} Factory Setting: Group A

Drawing No.	Rev.	Page
EHS-W18	F	8 / 13

5-2. Channel Input Method

Channel input mode can be selected for bit/binary with the Mode Switch (DIPSW).

With the bit input, channels 1-8 can be used to reproduce up to eight channels. (When sound reduction is OFF) With the binary input, channels 1-6 can be used to reproduce up to 32 channels.

Bit	Binary

^{*} Factory Setting : Bit

Binary Input Table

Causal Na				Cha	nnel				Caurad Na				Cha	nnel			
Sound No.	1	2	3	4	5	6	7	8	Sound No.	1	2	3	4	5	6	7	8
1	0								17	0				0			
2		0							18		0			0			
3	0	0							19	0	0			0			
4			0						20			0		0			
5	0		0						21	0		0		0			
6		0	0						22		0	0		0			
7	0	0	0						23	0	0	0		0			
8				0					24				0	0			
9	0			0					25	0			0	0			
10		0		0					26		0		0	0			
11	0	0		0					27	0	0		0	0			
12			0	0					28			0	0	0			
13	0		0	0					29	0		0	0	0			
14		0	0	0					30		0	0	0	0			
15	0	0	0	0					31	0	0	0	0	0			
16	·	·	·		0	·			32						0	·	

O -- Switch ON

Drawing No.	Rev.	Page
EHS-W18	F	9 / 13

5-3. Sound Reduction

- (5) Forced Playback OFF

With the sound reduction function turned ON, when a signal input is put on channel 8, the sound level is reduced at playback.

The sound pressure for the sound reduction can be preset. (-10dB,-20dB,-30dB) The Sound Reduction Function can be selected with the Mode Switch (DIPSW). When the Sound Reduction Function is turned ON, the number of channels available for playback in the Bit Input Mode is set to seven.

^{*} Factory Setting: No Sound Reduction

Mode Switch Condition	Sound Reduction Volume
	No Sound Reduction
	-10dB
<u></u>	-20dB
<u></u>	-30dB

- (5) Forced Playback ON

With a Forced Playback, if a signal line input occurs, the playback sound can be reduced. The sound reduction level can be selected by the channel input. Priority rank is channel3>channel2>channel1.

Signal Input Condition	Sound Reduction Volume
None	No Sound Reduction
Channel1	-10dB
Channel2	-20dB
Channel3	-30dB

Drawing No.	Rev.	Page
EHS-W18	F	10 / 13

5-4. Sound Mode

The alarm/melody audibility reprodution can be selected with the Mode Switch (DIPSW).

"Factory Mode"	"Public Address Mode"

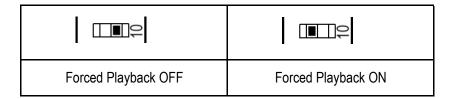
- Factory Mode -- The audible sound is suitable as a warning alarm.
- PA Mode -- The audible sound is suitable for public announcements.

5-5. Forced Playback

When the Forced Playback mode is turned ON, it will play back after power is supplied, even with no signal input. It can be used for testing the playback volume or when controlled by power supply start-up.

The Forced Playback is selected for ON/OFF with the Mode Switch (DIPSW).

The sound (channel) to play back can be selected by the Mode Switch (DIPSW).



^{*} Factory Setting: Forced Playback OFF

Sound Select Diagram

Sound No.			ode Swi	tch		Sound No.		М	ode Swi	tch	
Souria No.	1	2	3	4	5	Souria No.	1	2	3	4	5
1						17					0
2	0					18	0				0
3		0				19		0			0
4	0	0				20	0	0			0
5			0			21			0		0
6	0		0			22	0		0		0
7		0	0			23		0	0		0
8	0	0	0			24	0	0	0		0
9				0		25				0	0
10	0			0		26	0			0	0
11		0		0		27		0		0	0
12	0	0		0		28	0	0		0	0
13			0	0		29			0	0	0
14	0		0	0		30	0		0	0	0
15		0	0	0		31		0	0	0	0
16	0	0	0	0		32	0	0	0	0	0

O -- Switch ON

^{*} Factory Setting: "Factory Mode"

Drawing No.	Rev.	Page
EHS-W18	F	11 / 13

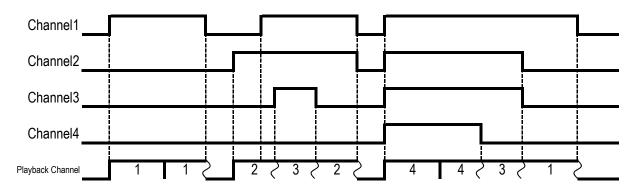
6. Timing Chart

It only plays back while the signal input is maintained.

Playback will be stopped as soon as the signal input is lost.

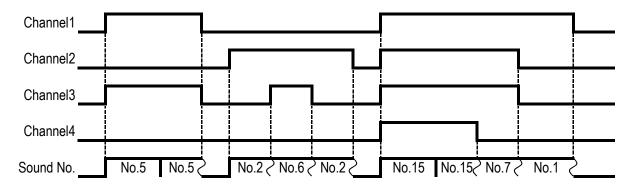
Repetitive playback occurs when the signal input is maintained.

- Channel Input Method : Bit Input



- * All channels above 5 are the same.
- * The wavy line indicates playback is stopped, and the channel corresponding to the changed signal input (Playback) is reproduced.

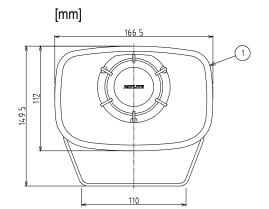
- Channel Input Method : Binary Input

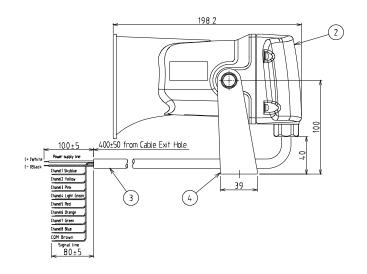


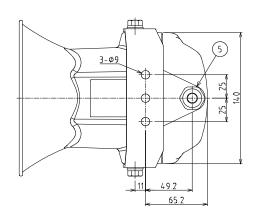
- * All channels above 5 are the same.
- * The wavy line indicates when playback was stopped and the sound which was the changed signal input (Playback) is played.

Drawing N	No. R	Rev.	Page
EHS-W	118	F	12 / 13

7. Outer Dimension Drawing







Number	Part Names	Material	Quantity
1	Case	PC	1
2	Cover	PC	1
3	Cable	UL2464 (AWG18x2C+AWG22x9C) φ9	1*
4	Angle Bracket	SUS304 t=3.0	1
5	Waterproof Gland	PA	1

^{* (3)} is attached only to EHS- \square H.

Drawing No.	Rev.	Page
EHS-W18	F	13 / 13

8. Sound List

I T	01	Веер	07 Synthesized	Pianol 13 F	ur Elise 19	Mary had a little La	mb 25 Ama	ryllis 31 G	randfather's Clock
	02	Stutter	08 Synthesize		den's Prayer 20			phony No.40 32	Ave Maria
	03	Bell	09 Stutter +		uet in Gmir 21	Cukkoo		akeside	7 tro mana
Type A	04	Yelp	10 Synthesized I		nie Laurie 22				
	-	Rapid Hi-Lo	11 Chime			On the Avignon Brid			
		Melody Chime	12 Call Sid			Daydream Belie	-	uscha	
H	01	Beep	07 Synthesized		e my eyes off of You 19				na sugu Kiss Me
1	02	Stutter	08 Synthesize		of the World 20				Haru yo, Koi
	03	Bell	09 Stutter +		ERTAINER 21	Space Battleship Yan		Katsu	i iai u yo, ixoi
Type C	04	Yelp			ING GRACE 22			JTH	
1	-		10 Synthesized I 11 Chime		with the flaxen hair 23	Oshiete Makanai da		Daze!!	
1		Rapid Hi-Lo				Makenai de "Rocky" Theme So			
		Melody Chime				HAPPY BIRTHD		's Lullaby 31 Wh	
	01	Beep						· · · · /	
	02	Stutter	08 Synthesize		ptember 20	HIHO	20 .		ondonderry Aire
Type D	03	Bell	09 Chime		obi no Koibito 21	I've been working on the Rai			
	04	Yelp	10 Call Sig		i no Kihai 22				
		Rapid Hi-Lo	11 Runne		ngoku, Ski Tengoku 23	-		se of Texas	
		Nelody Chime	12 Mamotte A		Vhite Blend 24			Doodle	
	01	Веер	07 Synthesized		ain Ride 19	J J		Laurie 31	Ave Maria
	02	Stutter	08 Synthesize		oping Hi-Lo 20		26 London Bridge		randfather's Clock
Type E	03	Bell	09 Stutter +		n Chatter 21	Alarm Clock			
. , p o _	04	Yelp	10 Synthesized I		ng Crystals 22	Ringing Hi-L			
		Rapid Hi-Lo	11 Chime		ted Reveille 23	Fur Elise		ıryllis	
	06 N	Melody Chime	12 Call Sig	n 18 Gala	actic Motor 24	Minuet in Gm	ir 30 Mozart Sym	phony No.40	
Sou	ınd (Group List	(at the tim	e of * fact	orv shipme	ents setup	: Group A)	
_		1						_	
Soun	nd Group	0.0up / ()	Group B	Group C	Group D	Group E	Group F	Group G	Group H
		m	□ ■0	□ ■	m	l∎] w	■		m m
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Sound Ty	ype	S □■□	N. □■□	N IIII ←	8□■□□-	N IIII ←	8	₹ □■ □ ←	N □■□
Channel		1 1	' '	1 1	1 1	1 1	1 1	ı ı	10000
	CH1		Mary had a little Lamb	Amaryllis	Grandfather's Clock	•	Mary had a little Lamb	Beep	Use an SD Card
		A Maiden's Prayer	Camptown Races	Mozart Symphony No.40	Ave Maria	Camptown Races	Mozart Symphony No.40	Stutter	to freely select a
	CH3		Cukkoo	Quiet Lakeside	•		Hol-Di-Li-Dia	Bell	melody.
Type A	CH4		Village Blacksmith	Mountain Musician	London Bridge is falling down	Ave Maria	Daydream Believer	Yelp	Group A is the
. , , ,	CH5		On the Avignon Bridge	Spanish Romance	Bell	Stutter + Bell	Rapid Hi-Lo	Rapid Hi-Lo	default setting
		Hol-Di-Li-Dia	Daydream Believer	Katyuscha	Yelp	Synthesized Melody	Melody Chime		unon factory
	CH7	Chime	Chime	Chime	Synthesized Piano		Synthesized Piano	Synthesized Piano	alain na ant
	CH8		Call Sign	Call Sign		Synthesized Bell	Synthesized Bell		'
	CH1	Can't take my eyes off of You	Canon	I Don't Want to Miss a Thing			Beep	Odoru Ponpokorin	Use an SD Card
	CH2		La-la Sunshine	Yozora no Mukou	Haru yo, Koi	Makenai de	Stutter	Ai wa Katsu	to freely select a
		ENTERTAINER	Space Battleship Yamato	Ai wa Katsu	Space Battleship Yamato	Guts Daze!!	Stutter + Bell	TRUTH	melody.
Type C	CH4		Oshiete	TRUTH	La-la Sunshine	Top of the World	Synthesized Melody	Aux Champs-Elysees	Group A is the
Type C	CH5		Makenai de	Guts Daze!!	Can't take my eyes off of You	Canon		AMAZING GRACE	J. C. H H.
	CH6	Aux Champs-Elysees	"Rocky" Theme Song	Odoru Ponpokorin	"Rocky" Theme Song	Haru yo, Koi	Synthesized Bell		default setting
	CH7	Chime	Chime	Chime	Chime	Chime	Chime	Chime	upon factory
	CH8	Call Sign	Call Sign	Call Sign	Call Sign	Call Sign	Call Sign	Call Sign	shipment.
	CH1		HAPPY BIRTHDAY	She Wore a Yellow Ribbon	Yellow Rose of Texas	Runner	Surf Tengoku, Ski Tengoku	Douyobi no Koibito	Use an SD Card
	CH2	Mamotte Agetai	HIHO	My Darling Clementine	Yankee Doodle	Iro, White Blend	Konnako Irukana	I've been working on the Railroad	to freely select a
	CH3		I've been working on the Railroad	Yellow Rose of Texas	When the Saints Go Marching In	Schubert's Lullaby	While listening to Olivia	She Wore a Yellow Ribbor	
	CH4		The Bear Song	Yankee Doodle	Londonderry Aire	HIHO	Rudolph the Red-nosed Reindeer	Yankee Doodle	melody.
Type D	CH5		Toys Go Cha-Cha-Cha	When the Saints Go Marching In	Beep	Bell	Rapid Hi-Lo	Synthesized Piano	Group A is the
	CH6		Konnako Irukana	Londonderry Aire		Yelp		Synthesized Bell	default setting
				Runner	Chime	Chime	Chime	Chime	upon factory
			Schubert's Lullaby	I/UIIIIGI					shipment.
	CH7	Surf Tengoku, Ski Tengoku	Schubert's Lullaby Rudolph the Red-nosed Reindeer		Call Sign	Call Sign	Call Sign	Call Sign	
	CH7 CH8	Surf Tengoku, Ski Tengoku Iro, White Blend	Rudolph the Red-nosed Reindeer	Mamotte Agetai		Call Sign Train Ride	Call Sign Rapid Hi-Lo	Call Sign Beep	Han ar OD Or 1
	CH7 CH8 CH1	Surf Tengoku, Ski Tengoku Iro, White Blend Fur Elise	Rudolph the Red-nosed Reindeer Minuet in Gmjr		Alien Chatter	Train Ride	Rapid Hi-Lo	Beep	Use an SD Card
	CH7 CH8 CH1 CH2	Surf Tengoku, Ski Tengoku Iro, White Blend Fur Elise Minuet in Gmjr	Rudolph the Red-nosed Reindeer Minuet in Gmjr Annie Laurie	Mamotte Agetai Fur Elise London Bridge is falling down	Alien Chatter Falling Crystals	Train Ride Galloping Hi-Lo	Rapid Hi-Lo Chime	Beep Stutter	to freely select a
	CH7 CH8 CH1 CH2 CH3	Surf Tengoku, Ski Tengoku Iro, White Blend Fur Elise Minuet in Gmjr Annie Laurie	Rudolph the Red-nosed Reindeer Minuet in Gmjr Annie Laurie Amaryllis	Mamotte Agetai Fur Elise London Bridge is falling down Mary had a little Lamb	Alien Chatter Falling Crystals Inverted Reveille	I rain Ride Galloping Hi-Lo Inverted Reveille	Rapid Hi-Lo Chime Stutter	Beep Stutter Bell	to freely select a melody.
Type E	CH7 CH8 CH1 CH2 CH3 CH4	Surf Tengoku, Ski Tengoku Iro, White Blend Fur Elise Minuet in Gmjr Annie Laurie London Bridge is falling down	Rudolph the Red-nosed Reindeer Minuet in Gmjr Annie Laurie Amaryllis Mozart Symphony No.40	Hamotte Agetai Fur Elise London Bridge is falling down Mary had a little Lamb Camptown Races	Alien Chatter Falling Crystals Inverted Reveille Galactic Motor	Irain Ride Galloping Hi-Lo Inverted Reveille Galactic Motor	Rapid Hi-Lo Chime Stutter Ringing Phone	Beep Stutter Bell Yelp	to freely select a
Type E	CH7 CH8 CH1 CH2 CH3 CH4 CH5	Surf Tengoku, Ski Tengoku Iro, White Blend Fur Elise Minuet in Gmjr Annie Laurie London Bridge is falling down Mary had a little Lamb	Rudolph the Red-nosed Reinder Minuet in Gmjr Annie Laurie Amaryllis Mozart Symphony No.40 Grandfather's Clock	Mamotte Agetai Fur Elise London Bridge is falling down Mary had a little Lamb Camptown Races Amaryllis	Alien Chatter Falling Crystals Inverted Reveille Galactic Motor Ringing Phone	Irain Ride Galloping Hi-Lo Inverted Reveille Galactic Motor Alarm Clock	Rapid Hi-Lo Chime Stutter Ringing Phone Stutter + Bell	Beep Stutter Bell Yelp Rapid Hi-Lo	to freely select a melody. Group A is the default setting
Type E	CH7 CH8 CH1 CH2 CH3 CH4 CH5 CH6	Surt Tengoku, Ski Tengoku Iro, White Blend Fur Elise Minuet in Gmjr Annie Laurie London Bridge is falling down Mary had a little Lamb Camptown Races	Rudolph the Red-nosed Reinder Minuet in Gmjr Annie Laurie Amaryllis Mozart Symphony No.40 Grandfather's Clock Ave Maria	Mamotte Agetai Fur Elise London Bridge is falling down Mary had a little Lamb Camptown Races Amaryllis Grandfather's Clock	Alien Chatter Falling Crystals Inverted Reveille Galactic Motor Ringing Phone Two Tone	Irain Ride Galloping Hi-Lo Inverted Reveille Galactic Motor Alarm Clock Ringing Hi-Lo	Rapid Hi-Lo Chime Stutter Ringing Phone Stutter + Bell Synthesized Melody	Beep Stutter Bell Yelp Rapid Hi-Lo Melody Chime	to freely select a melody. Group A is the default setting
Type E	CH7 CH8 CH1 CH2 CH3 CH4 CH5	Surt Tengoku, Ski Tengoku Iro, White Blend Fur Elise Minuet in Gmjr Annie Laurie London Bridge is failing down Mary had a little Lamb Camptown Races Chime	Rudolph the Red-nosed Reinder Minuet in Gmjr Annie Laurie Amaryllis Mozart Symphony No.40 Grandfather's Clock	Mamotte Agetai Fur Elise London Bridge is falling down Mary had a little Lamb Camptown Races Amaryllis	Alien Chatter Falling Crystals Inverted Reveille Galactic Motor Ringing Phone Two Tone Alarm Clock	Irain Ride Galloping Hi-Lo Inverted Reveille Galactic Motor Alarm Clock Ringing Hi-Lo	Rapid Hi-Lo Chime Stutter Ringing Phone Stutter + Bell Synthesized Melody Synthesized Piano	Beep Stutter Bell Yelp Rapid Hi-Lo Melody Chime Synthesized Piano	to freely select a melody. Group A is the default setting upon factory

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