MP3 Voice Annunciator/Audible Alarm with LED Signal Tower

LKEH



Simple message registration with various

Voice type LKEH-FV

Network

Signal Tower

Signal Light

Revolving Warning Light

Cube Tower

Audibles

Illumination Ш

Options

- 63-second (at 64kbits/s) playback capacity with 5 channels with bit input or 31 channels with binary
- Field programmable with an SD card (SDV-2GP recommended, sold separately)
- SD card can be used to freely arrange messages in groups
- · Easily accessible DIP switch to select binary or bit input and testing recorded messages

Table of tones (sound type LKEH-F

Туре А			
Веер	Stutter	Bell	Yelp
Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
Stutter & Bell	Synthesized Melody	Chime	Call Sign
Fur Elise	A Maiden's Prayer	Minuet in Gmjr	Annie Laurie
London bridge is falling down	Holdiridia	Mary had a little Lamb	Camptown Races
Cuckoo Song	Village Blacksmith	On the Avignon Bridge	Daydream Believer
Amaryllis	Mozart Symphony No.40	Quiet Lakeside	Mountain Musician
Spanish Romance	Katyusha	Grandfather's Clock	Ave Maria

Type D

Веер	Stutter	Bell	Yelp
Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
Runner	Mamotte Agetai	Chime	Call Sign
While listening to Olivia	September	Douyobi no Koibito	Aki no Kihai
Surf Tengoku, Ski Tengoku	Iro, White Blend	Happy Birthday	Hi Ho
I've been working on the Railroad	The Bear Song	Toys Go Cha-Cha-Cha	Konnako Irukana
Shubert's Lullaby	Rudolph the Red-nosed Reindeer	She Wore a Yellow Ribbon	My Darling Clementine
Yellow Rose of Texas	Yankee Doodle	When the Saints Go Marching In	Londonderry Aire

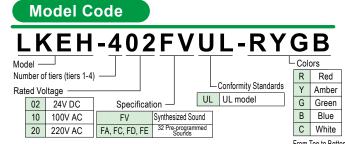
T-0710139 T-0710140

Nexlone N

●Bit input → plays 8 sounds (see instruction manual for 8 sound grouping) Binary input → plays 32 sounds •Alarm tones are denoted in characters for convenience' sake. Please inquire about actual tones or check our website for more details.

Use of Copyrighted Material

PATLITE Corporation has not applied for permission to use certain copyrighted music or songs recorded for Type-A, Type-C and Type-D melody charts outside of Japan. Therefore, contact the local copyright association for permission before using the product outside Japan.





Red, Amber, Green, Blue, White

Uses shock-resistant polycarbonate resin.

The LKEH Series features a 100mm diameter signal tower, programmable voice signaling, with a 105dB horn for highly effective signaling.

- Ultra-bright, maintenance-free LEDs
- Up to 105dB sound output at 1m
- Vibration resistant up to 2G
- Message capacity up to 64 seconds with 5 channel bit input or 31 channel binary input
- IP53 protection rating
- Built-in sound reduction feature for quieter environments
- NPN/PNP compatible



Sound type LKEH-F□

DICE



- 32 built-in sounds where 8 can be accessed with bit input and 32 with binary
- SD card can be used to freely arrange sounds into groups (SDV-2GP recommended, sold separately)
- · Easily accessible DIP switch to select binary or bit input and testing built-in sounds

Туре С			
Веер	Stutter	Bell	Yelp
Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
Stutter & Bell	Synthesized Melody	Chime	Call Sign
Can't take my eyes off of You	Top of the World	The Entertainer	Amazing Grace
Maiden with the flaxen hair	Aux Champs-Elysees	Canon	La-la Sunshine
Space Battleship Yamato	Oshiete	Makenai de	Theme Song
I Don't Want to Miss a Thing	Yozora no Mukou	Ai wa Katsu	Truth
Guts Daze!!	Odoru Ponpokorin	Ima sugu Kiss Me	Haru yo, Koi

Type E

Туре Е			
Beep	Stutter	Bell	Yelp
Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
Stutter & Bell	Synthesized Melody	Chime	Call Sign
Bee-boh sound	Galloping Hi-Lo	Alien Chatter	Falling Crystals
Inverted Reveille x3	Galactic Motor	Ringing Phone	Two Tone
Alarm Clock	Ringing Hi-Lo	Fur Elise	Minuet in Gmjr
Annie Laurie	London bridge is falling down	Mary had a little Lamb	Camptown Races
Amaryllis	Mozart Symphony No.40	Ave Maria	Grandfather's Clock

For details, see pages 182 to 187.

Model

SZ-023

SZ-008

SDV-2GP

Wallmount Bracket Wallmount Bracket

The following custom specifications are available. From Top to Bottom
• PNP open corrector specifications

Optional Parts

Optional Parts

SD card (2GB)

LKEH-FV specifications

Colors not listed in stock products, and any products other than stock products are made-to-order.

					(Numb	er of flashesabou	t 60/min)				
	Model	Rated Voltage	Operating Voltage Range	Number of tiers	Power Consumption	Sound Pressure Level	Audio File	Operating temperature range	Maximum Seconds of Playback	Number of messages	Mass
	LKEH-102FV			1	10.6W						1.4kg
	LKEH-202FV	24V DC	24V DC±10%	2	12.4W						1.6kg
	LKEH-302FV	24V DC	24V DC±10%	3	14.2W			e			1.8kg
	LKEH-402FV			4	16.0W		MPEG1-AudioLaye				2.0kg
	LKEH-110FV			1	17W		r III	10°0 to			2.1kg
Voice type	LKEH-210FV	100V AC	100V AC±10%	2	20W	Maximum 105 dB		-10°C to +50°C	63 s	5 (bit input)	2.3kg
voice type	LKEH-310FV	TOUVAC	100V ACE 1070	3	23W	(at 1m)	bitrate	(humidity 85% or	00.5	31(binary input)	2.5kg
	LKEH-410FV			4	26W		: 64kbit/s,	less)			2.7kg
	LKEH-120FV			1	17W		Fs=44.1kHz				2.1kg
	LKEH-220FV	220V AC	220V AC±10%	2	20W						2.3kg
	LKEH-320FV	220V AC	220V AGE 10%	3	23W						2.5kg
	LKEH-420FV			4	26W						2.7kg

(Note) The indicated sound pressure level is the maximum volume (synthetic sound type: sine wave (1KHz)) and the actual level may be lower than the indicated sound pressure level due to message content, tone, and voltage fluctuations.*When using multiple units, there may be variation in the playback sound even when started simultaneously with the tone and voice. This product is not for mounting on a vehicle.

LKEH-FVUL specifications (UL certified model)

					(Numb	er of flashesabout	t 60/min)				
	Model	Rated Voltage	Operating Voltage Range	Number of tiers	Power Consumption	Sound Pressure Level	Audio File	Operating temperature range	Maximum Seconds of Playback	Number of messages	Mass
	LKEH-102FVUL			1	10.6W		MPEG1-AudioLayer	-10°C to +50°C			1.4kg
Voice type	LKEH-202FVUL	24V DC	24V DC±10%	2	12.4W	Maximum 105 dB	III (MP3)Standard bitrate	(humidity 85% or	63 s	5 (bit input)	1.6kg
voice type	LKEH-302FVUL	24V DC	24V DC±10%	3	14.2W	(at 1m)	: 64kbit/s.		03.5	31 (binary input)	1.8kg
	LKEH-402FVUL			4	16.0W		Fs=44.1kHz	less)			2.0kg

(Note) The indicated sound pressure level is the maximum volume (synthetic sound type: sine wave (1KHz)) and the actual level may be lower than the indicated sound pressure level due to message content, tone, and voltage fluctuations.*When using multiple units, there may be variation in the playback sound even when started simultaneously with the tone and voice. This product is not for mounting on a vehicle.

LKEH-F specifications

				(Nu	umber of flashesabo	out 60/min)				
	Model	Rated Voltage	Operating Voltage Range	Number of tiers	Power Consumption	Sound Pressure Level	Operating temperature range	Playback Channel	Mass	
	LKEH-102FA			1	10.6W				1.4kg	.
	LKEH-202FA	24V DC	24V DC±10%	2	12.4W				1.6kg	
	LKEH-302FA	240 DC	24V DC±10/0	3	14.2W				1.8kg	
	LKEH-402FA			4	16W				2.0kg	
	LKEH-110FA			1	17W		1000 1 5000	0.4.11.	2.1kg	
Sound type	LKEH-210FA	100V AC	100V AC±10%	2	20W	Maximum 105 dB	-10°C to +50°C	8 (bit input)	2.3kg	
Sound type	LKEH-310FA	100V AC	100V AC±10%	3	23W	(at 1m)	(humidity 85% or less)	32 (binary input)	2.5kg	
	LKEH-410FA			4	26W				2.7kg	
	LKEH-120FA			1	17W				2.1kg	
	LKEH-220FA	220V AC	220V AC±10%	2	20W]			2.3kg	
	LKEH-320FA	220V AC	220V AU±10%	3	23W]			2.5kg	
	LKEH-420FA			4	26W				2.7kg	

*Changes the sound pressure level based on tones, use environment, and working voltage.

*When using multiple units, there may be variation in the playback sound even when started simultaneously with the tone. This product is not for mounting on a vehicle.

LKEH-FVUL specifications (UL certified model)

				(Number	of flashesabout 60/mi	n)			
	Model	Rated Voltage	Operating Voltage Range	Number of tiers	Power Consumption	Sound Pressure Level	Operating temperature range	Playback Channel	Mass
	LKEH-102FAUL/FCUL/FDUL/FEUL			1	10.6W				1.4kg
Sound type	LKEH-202FAUL/FCUL/FDUL/FEUL	24V DC	24V DC±10%	2	12.4W	Maximum 105 dB	-10°C to +50°C	8 (bit input)	1.6kg
Sound type	LKEH-302FAUL/FCUL/FDUL/FEUL	24V DC	24V DO±10%	3	14.2W	(at 1m)	(humidity 85% or less)	32 (binary input)	1.8kg
	LKEH-402FAUL/FCUL/FDUL/FEUL			4	16W				2.0kg
*01			and wordship a second to a second						

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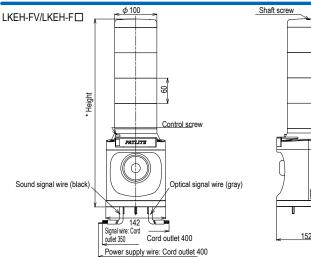
*Changes the sound pressure level based on tones, use environment, and working voltage. *When using multiple units, there may be variation in the playback sound even when started simultaneously with the tone. This product is not for mounting on a vehicle.

•The standard price of 1-3 tier specifications applies to Red, Amber, and Green combination.

• The price for 4 tier model is for Red, Amber, and Green, plus Blue and White only.

•There is an additional per-unit cost when using Blue or White instead of Red, Amber, and Green.

Dimensions (mm)



* Height 1 tier: 265.2 2 tier: 325.3 3 tier: 385.4 4 tier: 445.5	Moun

Replacement Parts	Part Number
Red globe unit	B72100151-1F1
Amber globe unit	B72100151-2F1
Green globe unit	B72100151-3F1
Blue globe unit	B72100151-4F1
White globe unit	B72100151-7F1
Shaft for 1 tier	B62910033-1F2
Shaft for 2 tier	B62910033-2F2
Shaft for 3 tier	B62910033-3F2
Shaft for 4 tier	B62910033-4F2

Installation Dimension Drawings nting holes 3- 0 6 Product External Dimension Product External Dimension Comparison Compa

LKEF

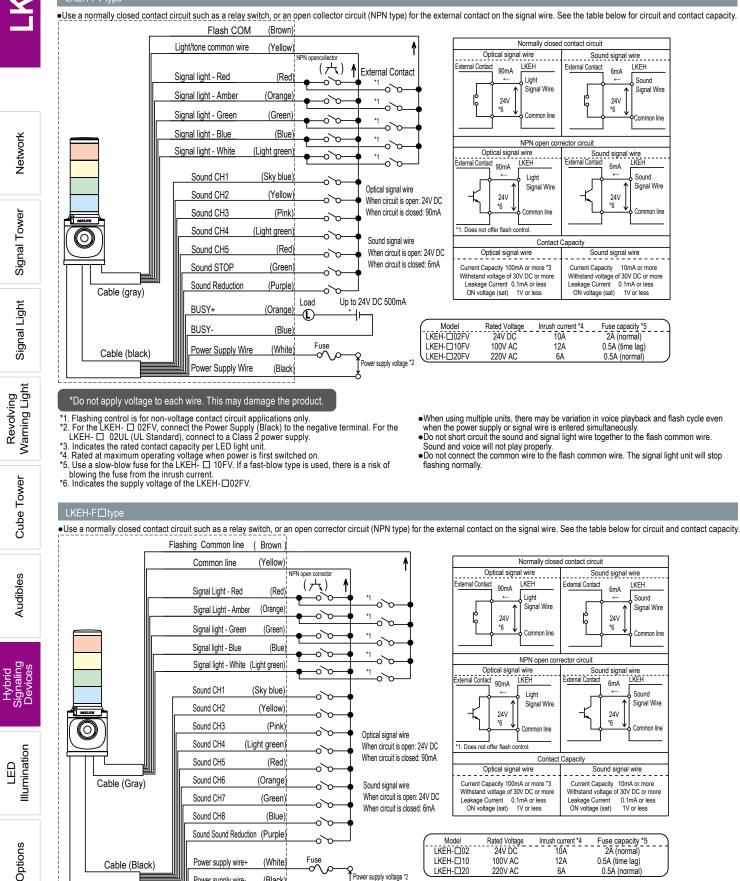
wer Network

Audibles

LED

Wiring Diagram

LKEH-FV type



*Do not apply voltage to each wire. This may damage the product.

- *1. Flashing control is for non-voltage contact circuit applications only.
 *2. For the LKEH- □ 02, connect the Power Supply (Black) to the negative terminal. For the LKEH- □ 02UL (UL Standard), connect to a Class 2 power supply.
 *3. Indicates the rated contact capacity per LED light unit.
 *4. Rated at maximum operating voltage when power is first switched on.
 *5. Use a slow-blow fuse for the LKEH- □ 10. If a fast-blow type is used, there is a risk of blowing the fuse furget.

Power supply wire-

(Black)

- blowing the fuse from the inrush current. *6. Indicates the supply voltage of the LKEH-D02

When using multiple units, there may be variation in toneplayback and flash cycle even when the
power supply orsignal wire is entered simultaneously.

6A

0.5A (normal

I KFH-□20

Power supply voltage *2

220V AC

- •Do not short circuit the sound and signal light wire together to the flash common wire. Sound and voice will not playproperly. •Do not connect the common wire to the flash common wire. The signal light unit will stop flashing
- normally.

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