

GENERAL CATALOG



"New Frontiers in Safety, Security and Comfort" is PATLITE's mission.

PATLITE offers state-of-the-art equipment for process and industrial automation for over 60 years. Our Innovative and robust design, backed by a powerful commitment and years of knowledge, has made PATLITE the world's best known manufacturer of the visual and audible signaling products.

We are also dedicated to the development of explosive and harshenvironment products to demonstrate our strong commitment to serving the industry with unique and innovative solutions.

In order to identify the diversified needs of our customers, and respond quickly and satisfactorily to those needs, we have implemented the POP (Point of Production) System together with a lean-manufacturing cell-based assembly system (combination, single, and flexible assembly). These new systems allow us to handle any order rapidly from single

These new systems allow us to handle any order rapidly from single items to customized item orders.

We've also reduced development time and production cost by having our own in-house machinery to produce, design and manufacture metal moldings and plastic materials with the use of injection machinery.

From designing to production, from raw material to the finished product, we also manage our quality control throughout the entire process. This is how we maintain our world class quality reputation in the visual, audible signaling and networking information products.

■ From designing to production, quality control is managed throughout the process







Metal Part Molding

Manufacturing



 Electrical discharge Machine



Machining Center



 Injection molding Machine

■ Wide-range of Innovative and World-class Quality Products

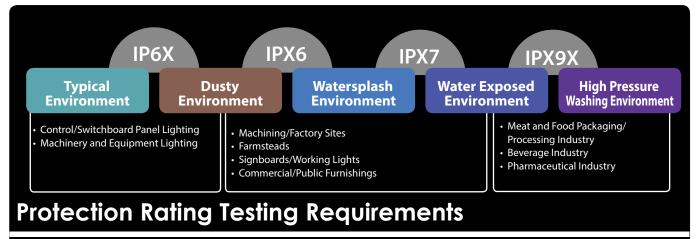


World-wide Sales, Marketing and After-sales Support Network



Index of Ingress Protection defined by CEI / IEC 529

IP 🗍	
· ·	Code No
No protection.	No protection.
Protection against solid objects larger than ø50mm.	Protection against vertical falling drops of water.
Protection against solid objects larger than ø12mm.	Protection against dripping water when tilted up to 15°
Protection against solid objects larger than ø2.5mm.	Protection against spraying water.
Protection against solid objects larger than ø1mm.	4 Protection against splashing water.
Protection against dust-limited ingress (dust-protected).	5 Protection against water jets.
Total protection against dust (dust-tight).	6 Protection against heavy seas.
	Protection against the effects of immersion.
	8 Protection against submersion.



- IP6X= The product is placed in a dust chamber with a negative pressure state so that dust is made to float, and there is no invasion inside.
- IPX6= A water nozzle with a diameter of 12.0mm is placed at a range from 2.5 to 3.0 meters with a water velocity of 100 litres per minute injected towards the test piece in an omni direction for three minutes or more without being affected by any harmful influences
- IPX7= With the distance of 0.15 m from the top of the product to the water surface and a distance from the bottom of the product to the bottom of the tank at a distance of 1 m, it is submerged for 30 minutes with no harmful penetration.
- * Since testing is performed under a controlled environment within provisions including a designated time, it does not consider conditions for continuous use.

IP69K

IP69K is the German DIN 40050 PART9 standard. It is defined as a protection regulation for high temperature and high-pressurized water. Water is heated up to 80°C and sprayed at a water pressure in the range from 80 to 100 bars at 14 to 16 liters per minute at the test object. The test object is at a distance of 100 to150 mm from the nozzle and sprayed in all directions at 0, 30, 60, and 90 degrees, then sprayed at a horizontal angle while it is being rotated, all done for a period of 30 seconds without being affected by water penetration.



Symbols Used in this Catalog

Light Source

LED



High-intensity LEDs with about 60,000 hours worth of service life and low power consumption that outlasts any bulb.

Daylight Warm White



Temperature Color LEDs with a service life longer than incandescent and flourescent, but with lower power consumption.

Bulb



Economical and readily available from PATLITE.

Halogen 向



Small and bright halogen bulb with long-life.

Sounds

Electronic Sound

Alarm with sounds that are easy to recognize and gentle on the ears.

4 Channels

The number of channels available when dividing the total recording time to making several different messages.

85_{dB at 1m}

Maximum sound pressure level based on controlled environmental conditions and recorded contents (such as melodies, alarms or messages).

63 Seconds

The maximum recording time using the standard bit rate for the product. (Standard bit rate is usually 64kb/sec)

Some of PATLITE's audible alarm products may contain copyrighted music or songs which Patlite has not applied for permission to use outside Japan, so please contact your local copyright association before using certain audible alarm products. This disclaimer may not apply if the copyright association has not claimed the copyright of the music or songs in a particular country or jurisdiction.

Protection Resistance

IP69K

Protection Resistance classification for dust-proof, water-proof, and water-jet resistance based on ingress protection index. (CEI/IEC 529).

Explosion-Safe

Meets ATEX, NEC, CE and most other applicable Explosion-Safe standards.

Specifications

Φ60

The diameter size to fit into solutions like compact sized installations to fit perfectly onto that machine.

Dual-face Reflector

The symmetrical dual-face reflectors emit a powerful rotating light.

Network

Use the latest technology in network protocol to communicate between product and machine or product-to-product.

NPN/PNP Open-collector

Open collector allows direct connection to a PLC without the use of voltage-contact relays, etc.

Cable



Most products come with stranded wiring, but this corresponds to PATLITE products that offer cables as a standard or optional item.

Terminals 🖽

PATLITE now offers products that come with terminal connections to meet customer demands for easier wiring options.

Audio Icons





Products that emit sounds or voices, or both.









Sounds that are gentle on the ears in familiar sounds like melodies, and distinguishable alarms, along with MP3 programmable messages.



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Network

HELWC	/ I K							
				marine and the second				
Pa	ge No.	30	33	32	34		38	
N	Model	NHL	PHE-3FBE1	PHC-100A	PHU-3	WDR-LE-Z2	WDT-5E-Z2	WDT-6M-Z2
	DC 5V				• **			
Voltage	DC 12V							
	DC 24V	•*	•*	•*		•*	***	***
	LAN	•				•		
Network	USB				•	•		
Connection	RS-232C		•	•				
	Wireless					•		•
D 1	White	•						
Body Color	Ivory White		•	•	•	•	•	•
	Black							
Output (d	IB (at 1m))	80	80	-	-	-	-	-
Protection		IP20	-	-	IP20	IP20		

IP Rating is the same as the Signal Tower its attached to.

Explo	sion-pro	of					
	ge No.	42	43	45	4		46
	Model	AR-070	AR-078	EHS/EHV	LKEH-FV	LKEH-FE	CLN
	DC12V			•			
	DC24V	•	•	•	•	•	•
	AC24V	•	•				
Voltago	DC48V						
Voltage	AC100-110V						
	AC115-120V						
	AC200-220V						
	AC230-240V						
Conform	ity CE	•	•	•	•	•	•
Zone	•	2, 22	2, 22	2, 22	2, 22	2, 22	2, 22
Output ((dB (at 1m))	85	85	110	105	105	-
	on Rating	IP65	IP65	IP65	IP53	IP53	IP66G/67G/69K

^{*} Uses AC Adaptor

^{**} Uses USB Power Source

^{***} Uses Signal Tower Power Source

PLAN 8888 ACTUAL 928 STATUS -3	PLAN 1234 ACTUAL 387 STATUS - 10
	36
VE25	VE100
*	• *
	······
	•
-	-
-	-

Terror Marie		
47	48	49
CLK	CLA	RES-A
		0
•	•	0
		0
		0
		•
		0
•	•	
•	•	
2, 22	2, 22	1, 2
-	-	-
IP66G/67G/69K	IP66/67/69K	IP65
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O Available upon special order.

Signal Tower

Signal To	ower									
								1		
Page N			2		54	56		8		61
Model		ME-A	MES-A	MP	MPS	MP-C	LCE	LCE-U	LCS	LCS-U
Size (¢m		2	5		30			. 4	0	
Voltage	AC/DC12V DC24V AC/DC24V AC90-250V AC100V AC120V AC220V AC230V White Ivory White	•	•	•			•	•	•	•
Body Color	Silver Black Lead Wires	•	•	•	•	•	•	•	•	•
Connection Type	Terminal M12 QD PNP					•				
Transistor Input NPN		•	•							
Flashing Function										
Output (dB (at 1n Protection Rating			42		IP65			85 85		- 954

Available upon special order.

	лс ароп эрс										
				10 10 10 10 10 10 10 10 10 10 10 10 10 1	494						
Pag	e No.	92	8		26			8	5		
Mo	odel	LHE-A	LS7-H	LS7-C	LU7-USB	LU7-S	LU7-SU	LU7-SK	LU7	LU7-U	LU7-K
Size	(фmm)					70					
Voltage	DC5V DC12V DC24V AC/DC24V AC90-250V AC100V AC120V AC220V White	•	•	•		•	•	•	•	•	•
Body Color	Ivory White Silver Black	•	•	•	•	•	•	•	•	•	•
Connection Type	Lead Wires Terminal M12 QD	•	•	•		•	•	•	•	•	•
Transistor Input	PNP NPN	•	•	•		•	•	•	•	•	
Flashing F	unction	•	•		•	•					
Output (di		90	8	5	80			9	0		
Protection	Rating	IP65	IP	65	IP65			IP	35		

E = 2							72			and the same of th	
65	63		68		16		72		78	7	5
LE	LES-A	LU5	LU5-U	LU5-K	LA6	LME	LME-U	LME-N	LMS	LME-S	LME-Q
		50						60			
	•	•				•		•	•	•	•
•	•	•	•	•	•	•	•	•	•		
				•							
85	-		85		85		85			8	
IP54	IP65		IP65		IP65		IP65		IP65	IP	35

						Towns of the second	
95	98	101	139	141	142	104	105
LGE	WE/WEP	WME-A	KUS	KJS(B)	KJ(B)	WSST	HSST
100	W90xD37.5	W70xD80	70 x 70	82 x 82	116 x 116		
				•			
				•	•	●*	●*
•	•	•	•				
		•					
			•	•	•		
			•	•	•		
	•	•	•	•	•		
	•					•	
	•	•	•	•	•		
						•	
		•	•				
	•	•	•	•	•		
		•					
85	90	90	80	85	85	-	-
IP54	IP65	IP54	IP54	IP23	IP23	Llege AC Adar	-

Signal Light

Olgilai							
			V W				
F	Page No.	22	108	110	113	109	114
	Model	NE-M1-CL	NE-24	PES-A	PSE	KHE	LFH
S	ize (¢mm)	57	7	82	2	10	0
	DC12V	•			•		•
	DC24V	•	•	•	•	•	•
	AC24V			•			
	DC48V						•
\/-4	AC100-230V				•		•
Voltage	AC100V			•			
	AC120V			•			
	AC200V			•			
	AC220V			•			
	AC230V			•			
Dady Calar	White	•	•	•	•	•	
Body Color	Black						•
Transistor	PNP	•	•				
Input	NPN	•	•	•			
Output (dB	(at 1m))	-	-	-	-	-	-
Protection	Rating (w/Gasket)	IP66/67	IP65	IP23 (55)	IP23 (55)	IP23 (55)	IP66

Δ Due to a specification change, body colors for Red and Yellow globes will be the same, but green and blue globes will have a white body.

Revolving Warning Light

Kevo	iving warning	Ligit								1
	Page No.	120	12	21	122	122	1:	23	124	125
	Model	RLE	RU	RS	RKE	RHE	RH-A	RK-A	SKH-EA	WH-A
	Size (¢mm)		82	I			100			100
	DC12V				•					
	DC24V	•	•	•	•	•		•	•	•
	AC24V		•							
	DC48V				•	•				
	DC100V									
Voltage	AC100V	•	•	•	•	•	•	•	•	•
Ü	AC120V									
	AC200V				•	•			•	•
	AC220V									
	AC240V						•	•		
	AC100-240V									
Body	White	•	•		•	•	•	•	Δ	•
Color	Black									.
	Red	•	•	•	•	•	•	•	•	•
01.1	Yellow	•	•	•	•	•	•	•	•	•
Globe Color	Green	•	•	•	•	•	•		•	•
COIOI	Blue		•	•	•	•	•		•	•
	Violet									
	Bulb		•	•			•		•	•
Light	LED	•			•	•				
	Halogen									
Οι	itput (dB (at 1m))	-	-	-	88	88	90	90		90
Protection	on Rating (w/ Gasket)	IP23 (55)	IP23	IP54						

Due to a specification change, body colors for Red and Yellow globes will be the same, but green and blue globes will have a beige body.

∆ Due to a specification change, body colors for Red and Yellow globes will be the same, but green and blue globes will have a beige body.

115	110	112	116	117
LFK	PEW-A	KPE-A	XPE	XME
100	107	10	62	187
•			•	
•	•		•	
	•			
•				
······	•		······································	
		······································		
		•		
	•			
<u> </u>	•	•	•	Δ
<u> </u>				
	•			
-	85	_	-	-
IP55	IP54 (23)	IP23	IP23	IP23

											N. C.	
125	126	127	128	129	132	133	130	134	135	136	138	137
WK-A	SKH-A	SKHE(B)	SKP-A	KP-A	SKHB-1006D	SKL-A	RLR	HP	KG	SKC-A	SKV-A	HKFM
100	1	18	138		10	62		182	186	187	204	-
			•				•	•		•		•
	•		•	•		•	•	•		•	•	•
	•		•			•	•					
•	•	•	•	•	A	•			•	•	•	
	•	•	•	•		•				•	•	
•			Δ	•	•	Δ	•			Δ	•	
•	•	•	•		•	•	•	•	•	•	•	
					•	•		•			•	
•	•	•	•	•	•	•	•		•	•	•	
90	90	88	-	-	75	-	-	-	-	-	-	-
IP54	IP23	IP23	IP23	IP23	IP23	IP23	IP66	-	IP23	IP23	IP66	-

▲ Used for charging, operates on a 6V battery supply.

LED Lights

LLD LIG	1160											
								ALCOHOL: ALCOHOL:	91000 <u>00</u> 923000	193473333		
Pa	ige No.				148							
,	Model			С	LA			CLK				
I	viouei	1S	2S	3S	6S	98	12S		-AG			
Siz	ze (mm)	100	200	300	600	900	1200	200	300	600		
Voltage	DC24V											
Dody	Aluminum							•		•		
Body Material	Stainless Steel											
- Waterial	Polycarbonate		•	•		•	•					
	Tempered Glass						ļ			•		
Cover	PMMA Resin						ļ					
	Polycarbonate	•										
Light Color	Temperature (K)		, 68	300K (-CD)	4800K (-C	N)	······	6500K (-CD), 5000	K (-CN)		
Light Color	Amber											
	Water	•	•		•	•	•		•	•		
Resistance	Oil								•			
Nesisialice [Corrosion											
	Dust											
Protec	Protection Rating			IP66/6	IP66G/67G/69K							

Audible Alarms & Annunciators

Addibi	C Alai	ms &		unc	iatu	13	1			1	1	1	
)				(0)	(0)		ana .	0	
Page No.				156		158	160	172	24	168	170	162	174
	Model		ВМ	ВМ-Н	BM-D	BD	BK	BSV	BSV-L	BDV	BKV	EHS	EHV
S	Size (mm)		ф30	ф30	ф30	80	120	75	75	80	120	-	-
	DC12-24 DC24V DC 12-4	• • • • • • • • • • • • • • • • • • • •				•	•	•	•	•	•	•	•
Voltage	AC/DC24 AC100V		•	•	•	•	•			•	•		
	AC120V	• • • • • • • • • • • • • • • • • • • •		•									
	AC220V AC100-2	240V	•	•	•	•	•			•	•		
Body	Light Gra White	y				•	•	•	•	•	•	•	•
Color	Dark Gra Black Silver	ay	•	•	•		•	•	•	•	•		
Sound Function	MP3 Melody/	Alarm Reduction	•	•	•	•	•	•	•	•	•	•	•
Transisto		PNP NPN	•	•	•	<u> </u>	⊚	•	•	⊚ ●	⊚	•	•
Outpu	Output (dB (at 1m))		85	90	80	90	95	8	7	87	95	110	110
Channel Ir			2	2	2	4	8 (32)	4 (15)	4 (15)	4 (15)	5 (31)	8 (32)	8 (63)
	k Sounds		-		-		-	63	520	63	63		220
Prote	ection Ra	ting	IP30	IP30	IP34	IP54	IP54	IP	54	IP54	IP54	IP	65

O Available upon special order.

77775555555555555555					PROPERTY PROPERTY.			
148	150	152			20			
CLK	CLN	0)4/4			OMA			
-SA/-SG	-T -(P)T	CWA			CWK			
300	85x85	300 600	900	200	300	600		
•		•	•	•	•	•		
● (-SG)		• •	•					
● (-SA)								
6500K (-CD), 5000K (-CN)	6500K (-CD), 2700K (-CL)	6500K (-	CD)	6	500K (-CE)) 		
•		•	•	•	•	•		
•	• •	• •	•	•	•	•		
IP66G/67G/69K	IP66G/67G/69K	IP65	IP65			IP66G/67G		

Hybrid Annunciators

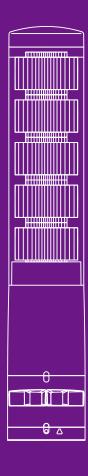
176
FV-127JP
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7 (127)*
480

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Pa	ge No.		18	30	182	184	18	36	188
N	/lodel		LKEH-FE	LKEH-FV	RFT	RFV	RT-F RT-VF		KJT
Siz	e (mm)		ф100		115		ф162		116
	DC24V	,			•	•			•
	AC24V								
Voltage	AC100	V	•	•	•				•
Voltage	AC120	V							
	AC200	V							•
	AC220	V							
Sound	MP3			•		•		•	
Function	Melody	/Alarm	•		•		•		•
Transista	r Innut	PNP							
Transisio	Transistor Input NPN					•	•		
Output	Output (dB (at 1m))		105	105	90	95	105	105	85
Chan	nel Inpu	ts	8 (32)	5 (31)	8 (32)	4 (15)	8 (32)	4 (15)	8 (32)
Playback	Duratio	n (sec.)	-	63	-	63	-	63	-
Protec	tion Rat	ing	IP53	IP53	IP54	IP54	IP23	IP23	IP23

^{*} When SD Card is used.



New Products



LA6

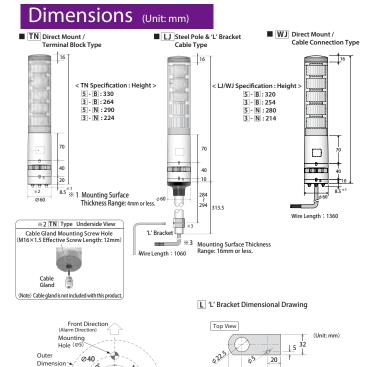
Signal Tower



Display a variety of colors in various ways to improve your processes.

FEATURES

- Indicate abnormal conditions with a variety of color patterns. Can freely set up multiple colors. For example, a serious condition can be indicated with the "All-point Lighting" where the entire signal tower is the same color, thus conveying important information.
- Use "Operating Modes" to enhance a visual status condition. The downloadable program can be used to make patterns change at set intervals so the signal tower can be used to count time or set a pace.
- Simple and easy to use complimentary programming software. The downloadable complimentary programming software can be used to easily control which colors are displayed and how they are to behave.



Wiring Hole (∅12^{®2})

※2 Use φ23 for Cable Gland

(TN Type)

Mounting

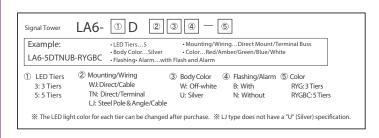
Hole (Ø5)

Nameplate⁻

φS 20 60

Side View

How to Order





An internal Mode Switch is available.

Use the internal mode switch to easily set up various functions, such as the alarm volume.



A new lens design optimizes visibility.

The newly developed lens design efficiently diffuses LED light so that it is unmistakably visible, even from great distances.



Freely change luminescence colors and patterns with editing software.

Upload colors and patterns using the editing program to the signal tower using an USB cable* connected to a PC.

* The USB cable is sold separately (USB microB type with Charging/ Data Transfer capability).



The alarm has a total of 11 sounds to match various applications.

The water-resistant speaker design is able to play clear sounds of up to 85 dB (at 1m) despite it's compact size. Alarm sounds can be set up with every display pattern.

Replacement Parts



Headcover (Off-white) B31310001-7F1 (Silver) B31310001-9F1



USB Port Cover (Off-white) B22100071-7F1 (Silver) B22100071-9F1



Waterproof Ring 'B' B25110042-F1

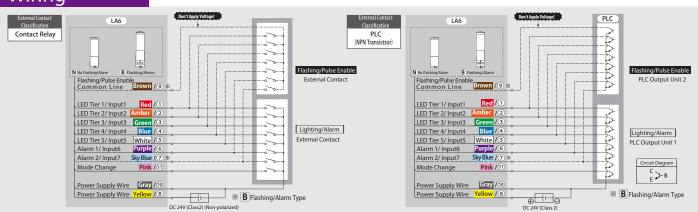


Pole Bracket (Off-white) B22210134-7F1



Waterproof O-ring B25110047-F1

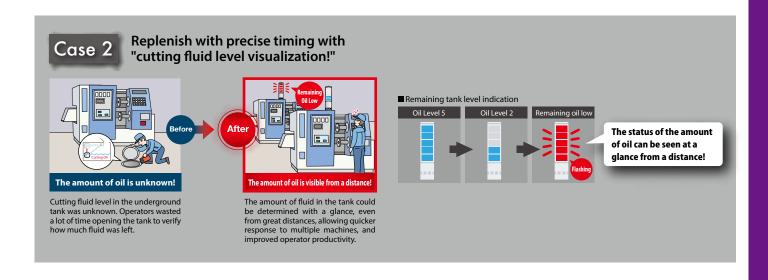
Wiring

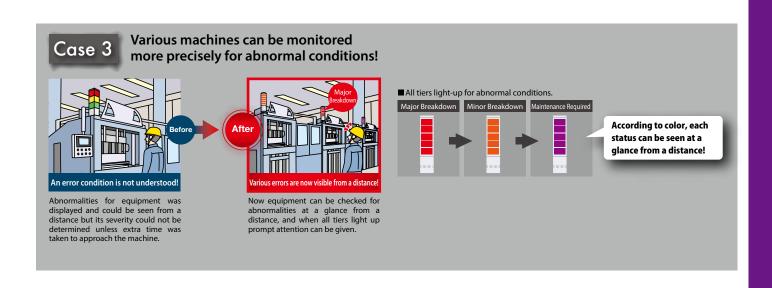


Model		LA6-¤D¤¤¤-¤							
Rated Voltage							DC24 V		
Operating Volta	ge Range						f Rated Voltage		
	tandard	LA6-5 Dr	□□N-RYG	BC 5W			D⊓⊓B-RYGBC	6.5W	
Rated Power		LA6-3D□		3.5W	,	LA6-3D	D□□B-RYG	4.5W	
Consumption N	Maximum	LA6-5 D	□□N-YYY	YY 7W		LA6-5 [D□□B-YYYYY	8W	
		LA6-3D	□N-YYY	4.5W	1		D□□B-YY	5.5W	
Test Condition	on	Power Co	onsumpt	ion test w	ith alarm set at Ala	rm Soui	nd No.1 at maxii	mum volume	
Signal Wire Curr	ent					Maxi	mum 70mA		
Standby Curren	t					Maxi	mum 15mA		
Operating Ambion Temperature						-25	□ to +60□		
Operating Hum					Less than 9	0% RH (No Dew or Cond	densation)	
Storage Temper Range							□ to +60□		
Storage Humidi	<u>, </u>				Less than 9		No Dew or Cond	densation)	
Mounting Locat							door Only		
Mounting Direc					<u> </u>		verted Direction		
Protection Ratin							arm: IP54) IEC 60		
Test Condition	חכ		r	Curca: D			an upright posit		
		LA6-□□L	Joo	Accelerat	urability: Total amp ion: 20.0 m/s2 (57.5 :h durability: Accele	- 150 H	lz)	ס. ז (∠.),	
Vibration Resist	ance	LA6- LA6- WJ Sweep Durability: Total amplitude 0.3 mmp-p (10 - 57.5 Hz), Acceleration: 20.0 m/s2 (57.5 - 150 Hz) Fixed Vibration Frequency Durability: Acceleration 10.0 m/s2							
			JIS C 60068-2-6:2010						
Test Condition	on	Tested while installed in an upright position							
Insulation Resis							<u> </u>	er input lead and chassis.	
Withstand Volta	ge		500VAC for 1min between terminals and chassis without breaking insulation						
Display Color		red (1000 mcd) yellow (1700 mcd) green (2600 mcd) blue (1000 mcd) white (1250 mcd)							
(Typical Lumino Intensity)	ous	Purple (800 mcd) pink (850 mcd) cyan (2150 mcd) lemon (2150 mcd) * Due to the characteristics of the LED elements, a variation in difference of the color tone and brightness of every product may occur.							
Flash Rate		60 ±2 fp							
		No. 1	2400Hz	Continuo	us beep sound	No. 2	2400Hz Rapid i	ntermittent beep	
		No. 3	2400Hz	Long inte	rmittent beep	No. 4	2400Hz Fast int	ermittent beep	
Alarm Sound		No. 5	<u> </u>	Continuo			<u> </u>	ntermittent beep	
(Typical Freque	ncy)				rmittent beep		3600Hz Fast int	·	
					<u>.</u>	No. 10	2400Hz & 3600	Hz Multiplexed Beep	
		No. 11	4000Hz	& 4800Hz	Multiplexed Beep				
Sound Level		Maximum: 85dB							
Test Condition	on	Alarm Sound No.1 measured from the front direction of the alarm opening at 1m							
		The set up button is the fourth step (Factory Default: Maximum).							
Volume Control		[Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [OFF] (-> Returns to [Maximum])							
I)ata Iranster ⊢	Main Unit		USB micro-B Terminal Female USB2.0/1.1 Interface, Transmission Rate: USB2.0/1.1/1.0						
Interface T	ransfer able	Charge /Data Transfer Micro USB (not included); Connector: USB Male- USB (MicroB) male							
Application Sof	tware	14655	N S I					from our Homepage)	
Mass (Tolerance 10%)		LA6-3DT		80g LA6-		<u> </u>	LA6-3DWJ B	450g	
		LA6-3DT		20g LA6-			LA6-3DWJ□N	400g	
		LA6-5 D		90g LA6-			LA6-5 DWJ□B	560g	
		+		30g LA6-				510g	
.					-4, EN 61000-6-2)		S Directive (EN 5 KN 61000-6-4, K		
Compliance Standards		UL508, C	1 A C 2 2 2	1 1 1 1 1		11//	UNIC1000 C 4 1/	N (7 () () () () ()	

Success Story

Manage and control assembly line progress with "takt time visualization!" Display remaining work time with the number of tiers Remainder 25min Remainder 15min Remainder 25min Remainder 25min Remainder 25min Remainder 15min Remainder 15min Remainder 15min Remainder 25min Remainder 25mi











Daylight 🔒



IP66G/67G

3meter Cable

Water and Oil resistant high-power LED Work Light with a wider illumination span.

- Made of aluminum alloy and tempered glass which is resistant to water and tooling oils.
- Special design disperses light for a wider and brighter illumination in the work space.
- The illuminance corresponds to EN1873 for safer exposure to eyes when working in the illuminated area.
- The product lineup includes a mounting bracket and two bracket options (swivel or panel mount) to adapt to various scenarios.
- · Conforms to CE and RoHS requirements.
- UL Listed (File No. E306141).



The body is protected by the tempered glass which disperses the flying scrap.



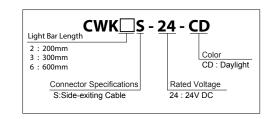
It has passed the oil resistant test from common cutting

[Accelerated aging test with diluted oil at 55°C for 240 hours (10 days) sprayed onto the test object]

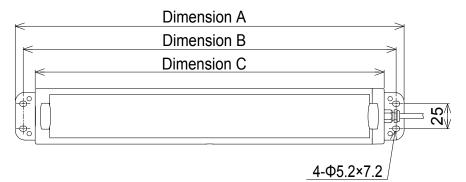
Specifications

Model	CWK2S-24 CWK3S-24 CWK6S-24					
Luminous Color	Daylight					
Color Temperature (typ.)		6500K				
Illuminance (typ.) (at DC24V) 1.0m	600 lx	850 lx	1500 lx			
Total Luminous Flux (typ.)	800 lm	1200 lm	2400 lm			
Operating Voltage Range		24VDC ±10%				
Rated Current Consumption	360mA ±10%	480mA ±10%	960mA ±10%			
Rated Power Consumption	8.6W 11.5W 23.0W					
Operating Ambient Temperature	-10°C - +50°C					
Operating Ambient Humidity	90% RH or less, no condensation					
Main Unit Material	Body: Aluminum Alloy; Lens: Tempered Glass					
Cable Length	3 meters					
Mounting Location	Indoors					
Protection Rating	IP66G/ IP67G (JIS C0920)					
Insulation Resistance	500V DC 5MΩ or more					
Withstand Voltage	500VAC for 1 minute (Between terminals and chassis)					
Vibration Resistance	30Hz 20m/s ²					
Mass (Tolerance ±10%)	600g 750g 1230g					

How to Order



Dimensions (Unit: mm)



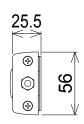
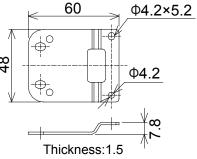
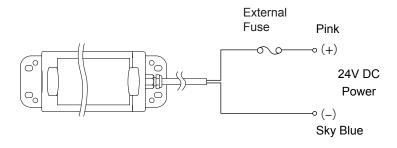


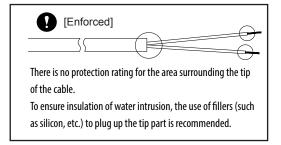
Table 1

Model	Diension A	Dimension B	Dimension C
Model	Full Length	Mounting Pitch	Body Length
CWK-2S-24-CD	290	274	250
CWK-3S-24-CD	390	374	350
CWK-6S-24-CD	690	674	650



Wiring





Standard Accessory

These brackets are included.

Mounting Brackets



Options

The following brackets can be used to fit various mounting applications.

Angle-adjustment Brackets



Surface-mount Brackets

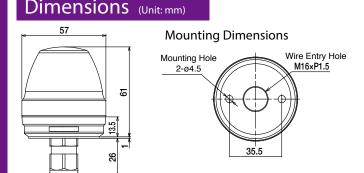




NE-M1-CL7 Series LED Dome Signal Light; One Signal Light with 7 LED color combinations provide multiple solutions with years of maintenance-free operation.

FEATURES

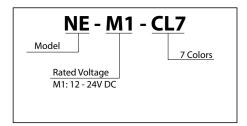
- Seven multicolored LEDs.
- Low power consumption to increase energy efficiency.
- High protection rating for outdoor use.
- · Color-coded wires for easy wiring.
- Applications are suitable for AGV units, small tooling machines, control panels, etc.
- One unit can make colors in Red, Yellow, Green, Blue, Light Blue, Purple and White.
- · Has the CE mark and conforms to the requirements for the EC directive.



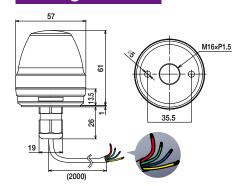
Specifications

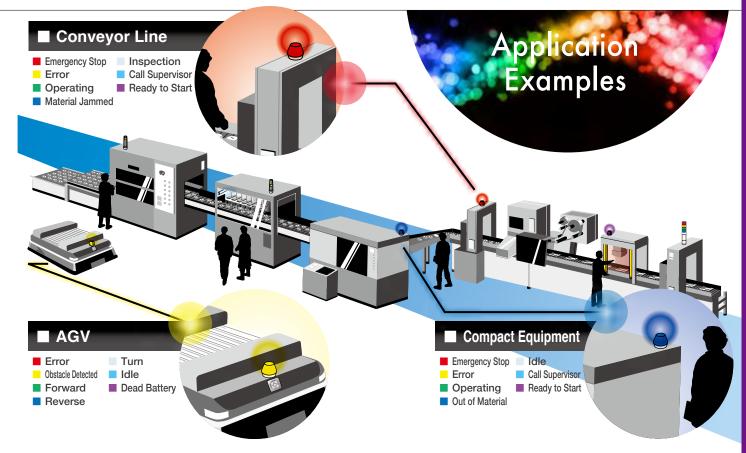
Model	Rated Voltage	Operating Temperature Range	Operating Humidity	Protection Rating	Mass
NE-M1-CL7	12 - 24V DC	-30 C - +50 C	90% or less	IP66/IP67	55g

How to Order



Wiring





■ Diverse Color Possibilities



■ Compact Size



A compact design to fit with any piece of equipment.

■ Opaque Lens



The white colored lens dispays various colors much clearer and uniformly diffuses the light source.

■ Environmental Resistant Characteristics



High Protection for an IP rating of 66 and 67, it can be used in environments with higher humidities and dust exposure.

Color Chart	
Wiring	LED Color
RED	RED
GREEN	GREEN
BLUE	BLUE
RED/GREEN	YELLOW
BLUE/GREEN	LIGHT BLUE
RED/BLUE	PURPLE
RED/GREEN/BLUE	WHITE

Model Name	NE-M1-CL7
Rated Voltage	12V DC~24V DC
Operating Voltage Range	10 V DC~30 V DC
Operating Temperature Range	-30 °C to + 50°C (90% RH or less)
Protection Rating	IP66/IP67
Display Color	7 Colors

BSV-L













87_{dB at 1m}

15 Channels (Binary)

520 Seconds

IP54

□ 75

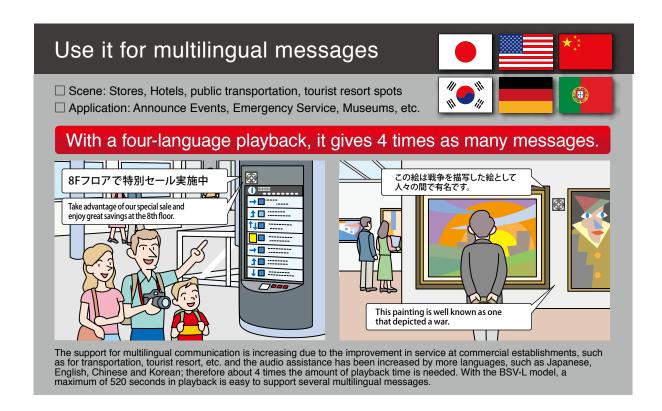
NPN/PNP Open-collector



Now more playback time for longer, or more messages.

FEATURES

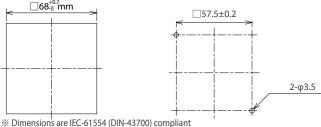
- Sound reduction
- Use the SD card to change messages while out in the field or set up modes for the right application.
- · It complies with Europe's environment-friendly RoHS Directivem, conforms to the CE requirements and UL Listed.
- Can be used with transistor driven inputs. (Either NPN or PNP)
- · A compact design with only a thickness of 19.9mm.
- Two installation choices of panel or wall mount with a Protection Rating of IP54 (Only for front panel mount attachment).
- The volume control is accessible from the front with maximum output of 87dB (at 1m).



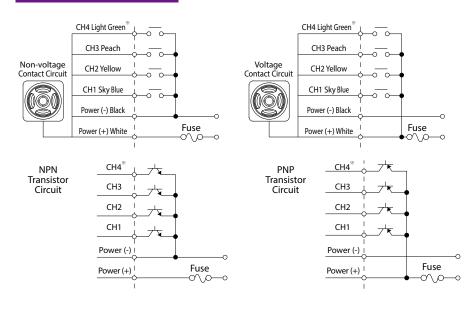
Dimensions (Unit: mm) __75

Mounting Dimensional Drawing





Wiring



Specifications and How to Order

■ 520sec. Model

Specifications	Specifications												
Model	Transistor Type	Rated Voltage	Operating Voltage Range	Power Consumption	Sound Level	Operating Temperature Range	Max.Playback Time	Playback Channels	Protection Rating	Mass	Front Cover Color	Recorded Data	
BSV-24NLM-W/D						10001-1500					Off white (-W) Dark Gray (-D)	Voice - Alarm	
BSV-24NLM-S	_ NPN						15 (Binary Inp				Silver (-S)		
BSV-24NL-W/D	Transistor							4 (Bit Input) 15 (Binary Input)			Off white (-W) Dark Gray (-D)		
BSV-24NL-S		DC	DC10.8V	0.514/	Max. 87dB (at 1m)					100g	Silver (-S)		
BSV-24PLM-W/D		12-24V	10		3.5W V	1kHz Sine Wave	(RH 85% or less)	520sec.	Function, the inputs become:	Upright Position) In accordance	ight Position) ±10% accordance	Off white (-W) Dark Gray (-D)	Voice
BSV-24PLM-S	_ PNP				One male			3 (Bit Input) 7 (Binary Input)	with IEC 60529	9	Silver (-S)	Voice	
BSV-24PL-W/D	Transistor										Off white (-W) Dark Gray (-D)	Alarm	
BSV-24PL-S											Silver (-S)	Alaim	
BSV-24 ① Transistor Type N: NPN Transistor P: PNP Transistor P: PNP Transistor Signal (2) Playback Time L: 520 sec. Blank: None (15 Alarm Sounds) M: Pre-recorded Messages D: Dark Gray S: Silver							i						



2

With the built-in SD card slot, MP3 data rewriting can be done with an SD card. In addition, rewriting or editing MP3 data files is possible with or without the exclusive PATLITE Playlist Editor 2 Application software.

Options

PATLITE Playlist Editor 2 (Free Download)

SD Card (2 GB) SDV-2GP

(OS: Windows® 2000/XP/Vista/Windows 7/Windows 8)

- > The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.
- > The SD Card does not contain any data.



LU7-USB

Signal Tower



*RoHS (E FC





USB powered Base Module with Integrated Alarms

FEATURES

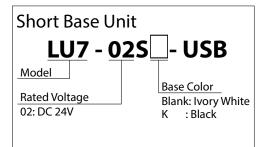
- · USB Bus Power no power supply needed
- DLL Operable
- Supports a maximum of five tiers where three tiers can be lighted simultaneously
- Complies with CE/RoHS/FCC/CK Standards
- IP65 protection rating
- Adjustable alarm frequency
- Two levels of adjustable alarm sounds
- Sound pressure at a maximum of 80dB
- Four kinds of flashing patterns
- 13 variable alarm frequencies and five alarm sound patterns
- Vinyl strip to secure USB cable included (Cable not included)
- Supports Windows 7 and Windows 8 Operating Software

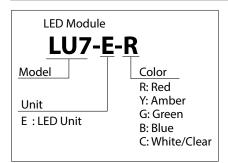
Free Downloadable Software

The Controllable Program is downloadable from the PATLITE website (http://global.patlite.com/)

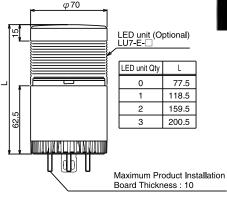


How to Order





Dimensions (Unit: mm)



Application Example

Printing Machines











LU7-LB

Signal Tower

FC (E ROHS



4 Sounds

100_{dB at 1m}

IP40

Φ70

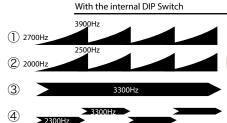
Open-collector

Loud, multi-sound Module (LU7-LB)

FEATURES

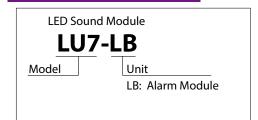
- Loud sound pressure up to 100dB (±5dB)
- Four kinds of alarm sounds can be selected with a DIP switch for a wider alarm sound range
- · IP40 Protection rating
- Complies with CE/RoHS/FCC Standards
- Can be used with LU7-02(FB), LU7-M2(FB), and LU7-02S(B)
- · Alarm can be set to sound with a specific LED module for simultaneous control

4 Alarm sound Patterns





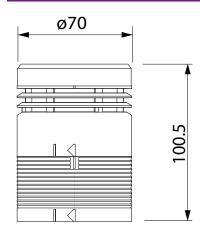
How to Order



Stackable audible alarm · Can be used with LU7-02(FB), LU7-M2(FB), and LU7-02S(B). · Easily mounted at the top of the light stack.

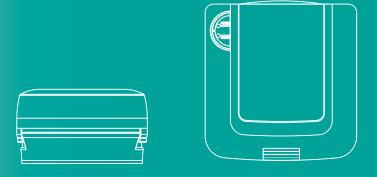
Diagram 1. Sound Direction

Dimensions (Unit: mm)



Specifications

Model	Type	Rated Voltage	Rated Current	Power Consumption	Mass
LU7-LB		DC 24V		-	140g



Network Products



NHL

Network Monitor Signal Tower











4 Alarm Sounds

80db at 1m

Φ60

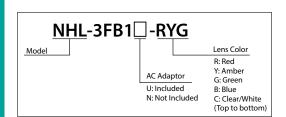
Network



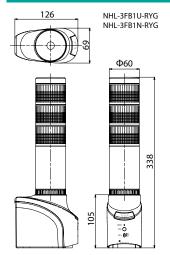
Network Monitoring With a New Look

- Not dependent upon the OS.
- Supports common protocols such as HTTP, SMTP, SNMP and includes RSH.
- Easily works with NMS (network management/integration / monitoring) software, etc.
- Easily controllable by the SNMP SET command and RSH commands.
- Conforms to the CE requirements. (AC Adaptor does not carry the CE mark.)
- Four different alarm sounds can be correlated to match the prioritized monitoring level.
- Contains the ICMP protocol so PING monitoring can be set up for a maximum of 24 nodes.
- Using the IP Address of the NHL Tower, detailed setup functions can be accessed via a browser.

How to Order

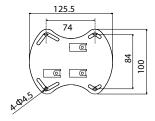


Dimensions (Unit: mm)





Upright Base (Standard Item)



Specifications

5 peemeations												
	Model		NHL-3FB1U-RYG			NHL-3FB1N-RYG						
AC	Rate	d Voltage	AC 100V to 240V				-					
Adaptor		ing Voltage ange	A	AC 90V to	264V				-			
	Rate	d Voltage				DC	24V					
Main Unit		ower	Unit	Red	Amber	Gre	en	Blue	White	Buzzer		
	Cons	umption	2.0W	1.5W	1.5W	0.8		0.8W	0.8W	2.0W		
Operating 1	empera	ture Range			0	°C	+40°	C				
Storage Te					-10	0°C -	+60	°C				
Relat	ive Hum	idity		RH	of 20 to 80	<u> </u>			ion)			
Vibrati	on Resi	stance				19.6	m/s ²					
Prote	ction R	ating			IP20 (N							
Alarm Sound	Audio Level		(1	Three-position switch for "HIGH", "LOW", "OFF" "HIGH": 80dB or more "LOW": 70dB or less (Tested at 1m from diaphram in upright position)								
Sound	Tone	Pattern	(Slow Int	Four distinctive patterns: (Slow Intermittent), (Fast Intermittent), (Fast Intermittent), (Four Intermittent), (Continuous)								
		"CLEAR"	Pushbutton Switch									
Switch		"TEST"		Pushbutton Switch								
SWILCI	ies	"RESET"			Pushl	butte	on Sv	witch				
		"BUZZER"			SI	ide S	witc	:h				
				Physical Layer: 10BASE-T/100BASE-TX (Auto-negotiation/Full Duplex/ Half Duplex)								
			Data Link Layer: CSMA/CD									
Communi Metho		Ethernet	Network Link Layer: IP / ARP / ICMP									
					Transpor	t Lay	er: T	CP / UDP				
			Application Layer: HTTP / RSH / SMTP / SNTP / POP / DNS / NTP / DHCP / Socket									
Mounting		Location			In	dooi	ors Only					
wount	iiig	Direction		Desktop (or Wall-mo	ount	in th	ne Uprigh	t Position			
	Mass		800g (AC Adaptor not included)									
Accessories				AC Adaptor, Rubber Feet, Adhesive Tape, Support Base Support Base					e Tape,			

Easy Integration for many system applications

PING Device Monitor

Monitors Device Existence on the Network

The NH Tower initiates PING interaction with network devices to verify existence of up to 24 nodes. When the response to a PING fails, a warning with light and sound occurs to alert administrators.

Among the 24 nodes, 12 nodes (13th - 24th) can be set up for more detailed monitoring parameters.



Application Monitor

The tower can monitor important background applications and signal the administrator upon any failure.

SNMP v1·v2c

Monitor networking equipment at a low cost

Many network devices (UPS, printers, routers, switches, etc.) generate SNMP TRAP messages when a failure occurs. The NHL tower can trigger a light and sound signal based on these SNMP TRAP messages to alert the administrator.



It can distinguish the various TRAPS. Register up to 16 groups (4 nodes per group).

Easy setup from a web browser

Detailed tower setup is accessed from a web browser directly to its IP Address. Firmware can also be upgraded remotely.



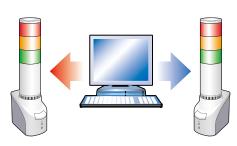
Web Setup Screen

Communication Commands for many customized applications

RSH

The RSH protocol is flexible with easily controllable commands.

With the use of Network integrated management software; event information obtained from various monitoring tools etc., can be used as a trigger to cause a combination of flashing and alarm patterns to sound in synchronicity with the event.



SOCKET Transmission

PHN Command Compatibility

Controlled with 2 byte commands.

- * Compatible with NHE-3FB, NHC-3FB, NHM-3FB, and PHN-3FBE1.
- * Some functionality is limited.

Event Occurence: Command Tier to light, alarm to sound PHN Example Code: 0x57,0x17

New PNS Command Compatibility

The PNS command can be used to control all pattern information.

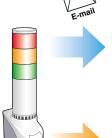
* The PNS command is a unique command from PATLITE.

Event Occurence: Command Tier to light, alarm to sound.

RSH Example Code: rsh 192.168.10.1 -l root alert 111001

Event Occurence: Command Tier to sound alarm PNS Example Code:

Diagnostic / Reporting/ Notification Features



E-mail Transmission

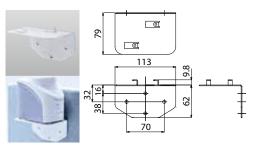
Send e-mail with a maximum of eight selectable events

Up to eight events can be created and sent as a secure e-mail with the subject name and text corresponding to the event.



Can transmit from a maximum of eight network devices.

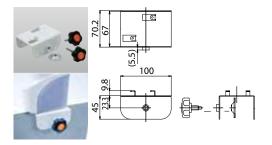
Options



Self-diagnosis



The test switch on the front of the Body can check the Signal Tower and alarm operation functions easily without it being controlled through the network.



PHC-100A Interface Converter





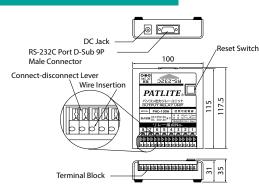
 This product requres the knowledge to program with ASCI commands to output through an RS-232C port.

The PHC-100A Interface Converter can be connected to the RS-232C port on your programmed PC to control most PATLITE products, both visual and audible.

FEATURES

- 16 terminals provide 8 isolated non-voltage contact outputs.
- · Reset pushbutton provided to reset all outputs to the off state.

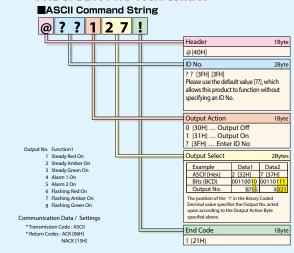
Dimensions (Unit: mm)



Specifications

N	/lodel	PHC-100A				
	Interface	RS-232C (Based on EIA)				
	Method	Half-duplex, Full-duplex, Asynchronous				
	Baud Rate	9,600 bps				
Communication	Data Bit	8 bit				
Protocol	Stop Bit	1 bit				
	Parity Bit	None				
	Flow Control	None				
	I/O Port	D-sub 9 pin Male Connector				
	Contact Type	Non-voltage Contact				
	Contact Outputs	8				
PHC Base Terminal Buss	Output Load Capacity	AC 125V 3A / DC 30V 3A				
Specifications	Connector	Screwless Terminal				
	Applicable Wire Size	Solid Wire: AWG18 - 26 (0.4 - 1.2mm ²) Stranded Wire: AWG20 - 22 (0.3 - 0.75mm ²)				
	Dimensions (mm)	100(W) x 31(H) x 115(D)				
	Power Supply Source	AC Adaptor (Sold Separately)				
PHE Base	Power Consumption	4.0W				
Specifications	Operating Temperature Range	0°C to +40°C				
	Humidity	20 to 80% RH (No Condensation)				

PHE-3FBE1 / PHC-100A Control



• The above example shows how to turn on the following output numbers: 6, 3, 2, 1





PHE-3FBE1

RS-232C / PC Controlled Signal Tower





2 Alarm Sounds

85_{dB at 1m}

Φ40

Network

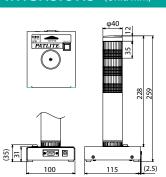
• This product requres the knowledge to program with ASCII commands to output through an RS-232C port.

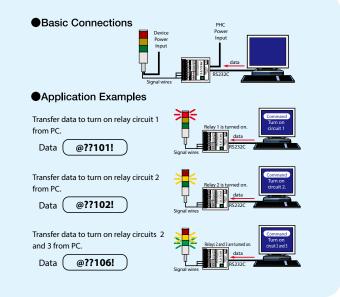
Signal Tower can be controlled directly by PC through RS-232C.

FEATURES

- Alarm is adjustable up to 85dB at 1m
- High-volume alarms (two patterns) can be heard even in a noisy factory.
- Bright LED signal tower
- PATLITE's original double reflection system with its exclusive hybrid prism-cut lens and 3 color LED modules create distinctive illumination that is bright and even.
- · Light and alarm functions can be turned off by pressing the reset switch on the base.

Dimensions (Unit: mm)





Specifications

Model		PHE-3FBE1
Communication Protocol	Interface	RS-232C (Based on EIA)
	Method	Half-duplex, Full-duplex, Asynchronous
	Baud Rate	9,600 bps
	Data Bit	8 bit
	Stop Bit	1 bit
	Parity Bit	None
	Flow Control	None
	I/O Port	D-sub 9 pin Male Connector
Signal Tower Specifications	Flashing Rate	60 flashes per minute
	Sound Level	Adjustable from 70dB to 85dB (at 1m)
	Tone Pattern	2 Alarms (Slow Intermittent, Fast Intermittent)
PHE Base Specifications	Dimensions (mm)	100(W) x 259(H) x 115(D)
	Power Supply Source	AC Adaptor (Sold Separately)
	Power Consumption	6.5W
	Operating Temperature Range	0°C to +40°C
	Humidity	20 to 80% RH (No Condensation)

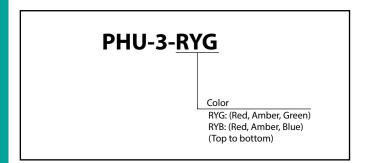


Signal Tower can be controlled directly by PC through the USB Port.

FEATURES

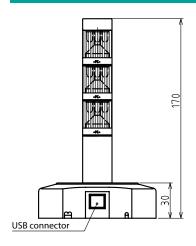
- Bright LED available as RYG or RYB three-tiered Signal Tower.
- PATLITE's original double reflection system with its exclusive hybrid prism-cut lens and 3 color LED modules create distinctive illumination that is bright and even.
- Power source supplied by USB Buss Power.

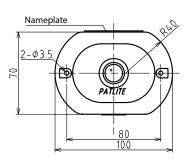
How to Order

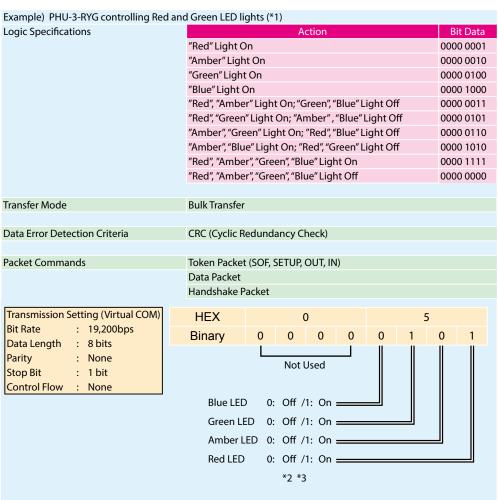


Specifications

Model		PHU-3-RYG	PHU-3-RYB
	Rated Voltage	5V DC (USB Buss Power)	
General .	Operating Voltage Range	DC 4.4V to DC 5.25V	
	Rated Current Consumption (Power Source)	Standby Mode: 25mA Operating Mode: 230mA Max.	
	Operating Temperature Range	-10°C to +55°C	
	Relative Ambient Temperature	RH 90% or less (No Condensation)	
	Electric Noise Intensity Level	VCCI Class-B Equivalent	
Signal Tower	Installation	Upright Position Only	
	Protection Rating	IP20	
	Insulation Resistance	More than $1M\Omega$ at DC500V between the terminals and Chassis	
	Withstand Voltage	AC 500V applied for 1 minute between the terminals and chassis without breaking insulation.	
	Mass	0.18kg	
Interface	Input / Output	Input: USB / Output: Lighting	(Red, Amber, Green, Blue LED)
	Physical Specifications	Connector Input: Series-B Rece	ptacle (USB Rev. 1.1 Compliant)







- *1 Drivers for Windows OS may have to be installed prior to use. Refer to the Instruction Manual on how to get the latest downloads.
- *2 This product does not include a Flashing function but it can be controlled by programming it through the USB output.
- *3 The control commands for the Green LED and Blue LED for the PHU-3-RYG and PHU-3-RYB are controlled seperately.
- This Unit is designed to be controlled by one computer, improper operation may occur with two or more units connected.

VE25/VE100

Real-time Production Monitoring Solution



LED

Terminal

25mm/100mm

Network











VE100-304SU 3 Row, 4 Digit Type Digit Size: 100mm

Infrared Remote Control Unit (Sold Separately)

*Compliant with FCC Title 47, Part 15, Subpart B

- Improve Manufacturing Productivity
- Reduce Down Time for "Kaizen"

A

- Ideal for Lean Manufacturing
- Real-time Production Monitoring
- Large Digital Displays
- **Easy Installation**

Our VE Series Real-time Production Monitoring Solution serves as a rugged, factory floor Andon system, with real-time production status indication to alert product performance to workers and supervisors. The VE Series Real-time Production Monitoring Solution is easy to install directly on operator workstations or automated machinery, and the wireless remote control unit enables easy setup. The VE Series Realtime Production Monitoring Solution comes in 2 models (25mm or 100mm character height), and it fully supports the principles of "Kaizen" (continuous improvement) to achieve a "Visual Factory", where clear and easy to understand information is quickly accessible.

FEATURES

- · Available in 25mm and 100mm digit sizes.
- Production-control settings can easily be set-up with the remote control or PC (Sold Seperately).
- Bright LED digits for easy viewing.
- · External terminal output for adding an extra 3 color LED Signal Tower to add distinctive signaling.

Easy Setup





Progress Loss Red Light

Progress Gain

Amber Light Flash Goal

Green Light Flash

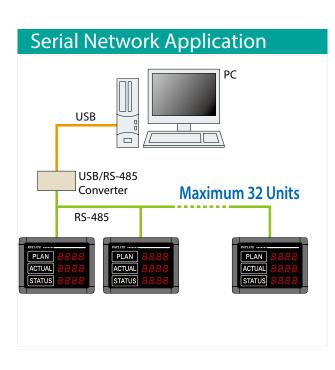


Three-terminal Output



Optional Bracket for VE-100 Available



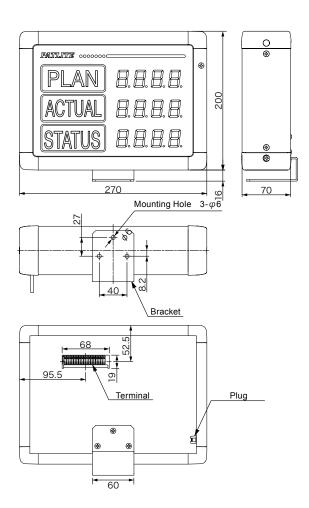




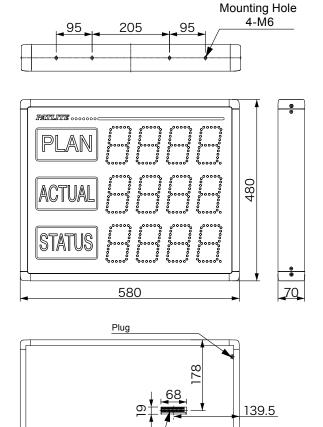




Model VE25-304SU



Model VE100-304SU



Terminal

WD-Z2

Wireless Data Acquisition System



WDT-6M Φ 60 Fits LME

WDT-5E Φ 50 Fits LE

Wireless Network



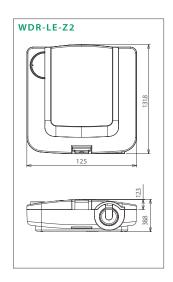


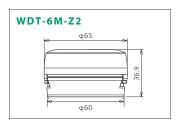
Monitor remotely and collect data wirelessly from a PATLITE Signal Tower

PATLITE wireless add-on modules and receivers make PATLITE Signal Towers capable of sending electrical signals over a wireless network to a data center. PATLITE wireless add-on modules and receivers are a uniquely practical and economical solution for data acquisition, machine status remote monitoring, and supervisory control of industrial processes. The WD-Z2 is an effective solution for lean manufacturing and a visual factory. PATLITE wireless add-on modules comply with IEEE802.15.4, operating in the 2.4 GHz band.

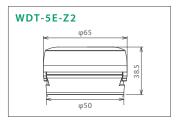
- 1) Simply add-on to a PATLITE Signal Tower
 Operating conditions of Patlite signal towers installed on production machines or process systems can be transmitted wirelessly to a data center. Data acquisition and remote monitoring are possible instantly and economically through the WDR-Z2 receiver.
- 2) Wireless technology of today eliminates tedious wire installation
 The WDT-Z2 add-on wireless modules tap their power from the PATLITE Signal Towers and transmit their electrical signals to the data center. This can reduce wiring, component installation and other related costs.
- 3) Multi-hopping topology and high transmitting reliability With wireless multi-hopping, it minimizes potential transmitting failures or errors, adding a high level of stable operation and transmission reliability.

Dimensions (Unit: mm)



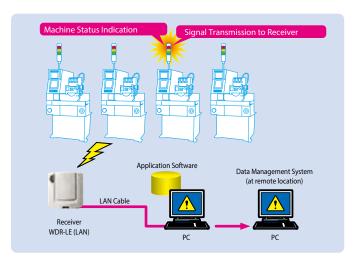




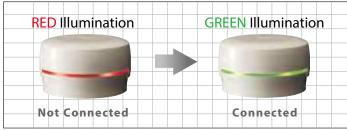


Typical Applications

- Multiple stand-alone machines can be networked by the WD-Z2 for data archiving and remote monitoring.
- The status and condition of the machines are indicated by the PATLITE signal towers.



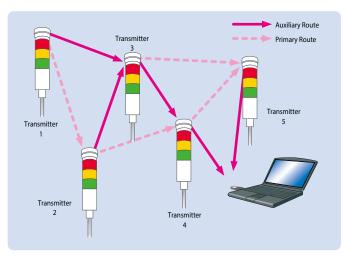
Network Connection Condition



* The transmitter is designed for PATLITE Model Series LME and LE Signal Towers. (As of Dec, 2012)

Wireless Concept IEEE 802.15.4 2.4GHz

- Wireless hopping/routing functions and mesh topology can make flexible and reliable wireless network configurations possible.
- Data archived by the WD-Z2 is stored in a file format CSV which any off-the-shelf data management software e,g, SCADA can handle.



Transmitter Installation



Affix the transmitter adaptor (a) on the Signal Tower and fasten it with the center screw. Then simply attach the transmitter (a) to the bracket. (Some applications don't require additional wiring.)

Specifications

Transmitters

manismitters						
Model	WDT-6M-Z2	WDT-5E-Z2				
Applicable Signal Tower	Φ60 LME Series	Φ50 LE Series				
Rated Voltage	DC 24V (N	o Polarity)				
Voltage Range	20.4V - 2	26.4V DC				
Current Consumption	351	mA				
Operating Temperature	-10°C - +60°C (No Condensation)					
Storage Temperature	-20°C - +70°C (No Freezing)					
Relative Humidity	RH 85% or less					
Mounting Direction	Upright Position	n (Indoors Only)				
Protection Rating	Determined by PATLITE	Signal Tower IP Ratings				
Dimensions (mm)	Ф65 х 36.9	Ф65 х 38.5				
Mass 55g		5g				
A L DATUTE C L D	()410 70					

Ask your PATLITE Sales Representative for WD-Z2 compatable PATLITE Signal Towers

Receiver

Model	WDR-LE-Z2 (LAN/USB)
Rated Voltage	DC 24V (Power Supply not included)
Voltage Range	DC 20.4V - 26.4V
Current Consumption	150mA
Operating Temperature	-10°C - +60°C (No Condensation)
Storage Temperature	-20°C - +70°C (No Freezing)
Relative Humidity	RH 85% or less
Mounting Direction	Horizontal, Wall-mount (Indoors Only)
Protection Rating	IP20
Dimensions (mm)	131(H)x125(W)x38.5(D)
Mass	165g

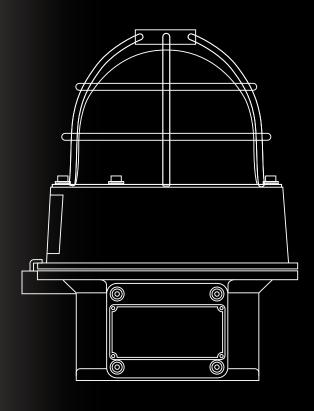
Features

Wireless Standard	EEE 802.15.4 for Zigbee 2.4GHz				
Frequency Bandwidth	,400MHz - 2,483.5MHz (16 Channels at 5MHz Step starting from 2,405MHz)				
Networking Connections	up to 20 Units (*1)				
Antenna Output	Maximum 1mW				
Compliances Wireless Telegraph Law, Electrical Appliance and Material Safety Law (AC Adaptor), RoHS, CE (R&TTE FCC, China, Indonesia, Taiwan, Thailand, Phillippines					
(*1) Number of possible Ur	(*1) Number of possible Units to connect is based on the wireless environment and installation location				

- * This product operates on a frequency in compliance to FCC laws in the United States and its territories. Radio Laws for individual countries vary, and it is, therefore, the responsibility of the customer to comply with the laws in the country which applies to the application. Our company takes no responsibility directly, or indirectly, for claims from a customer or third party regarding Radio Laws or Wireless ordanance.
- * This product requires application software for configuration and data acquisition. For more information on the latest software and solution to fit the application, please contact your nearest PATLITE Sales Representative indicated on the backside of this Catalog.



Explosion-Safe Products



AR-070

CE 6 II 3GD Ex nA IIC T4 Gc, Ex tc IIIC T85°C Dc IP65 94/9/EC (ATEX) CENELEC: EN 60079-0, EN 60079-15, EN 60079-31

Explosion-Safe Signal Tower





85_{dB at 1m}

P65 (IP54 with Buzzer)

Explosion-Safe

Φ40

FEATURES

- Explosion-Safe for gas and dust
- Suitable for Zone 2 and Zone 22
- CE Compliance in accordance to ATEX
- Full and brilliant lumination
- · LED double reflection lighting system
- Different lens colors available
- Stackable from 1 to 5 tiers
- · Wall mount or direct mount
- Ingress protection of IP65 (IP54 with buzzer)
- Available with "flashing/ non-flashing" and two audible alarm sounds



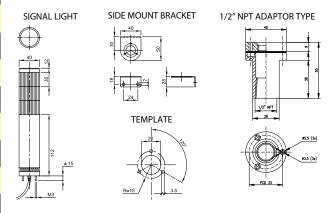
1/2" NPT *1/2 NPT Adaptor also available



Side-mount Bracket

Explosion-Safe Signal Tower φ40mm with sealed cable

Dimensions (Unit: mm)

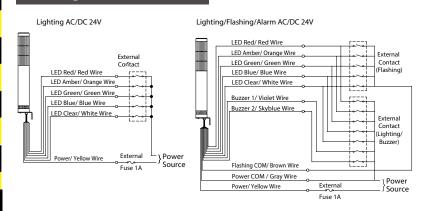


Specifications

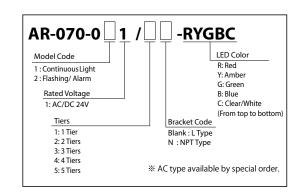
Explosion-safety	CE Ex II3 GD; Ex nA IIC T4 Gc: Ex tc IIIC T85°C Dc IP65
CE Conformities	EN 60079-0, EN 60079-15, EN 60079-31
Certification	EC Declaration of Conformity
Ambient Temperature	-30°C -+60°C
Ingress Protection	IP65 to EN 60529
Material	ABS Tower Body
Lighting Source	Multiple LED's with Double Reflection System
Acoustical Source	Buzzer with two different tones: 85dB (at 1m)
Rated Voltage	AC/DC 24V
Assembly Position	As Desired
Activation Time	100%
Module Colors Available	Red, Amber, Green, Blue, Clear/White
Cable	Factory sealed cable, φ8mm, length 3 meters

CURRENT RATINGS						
	LED	BUZZ	ER			
Signal Line Current		Signal Line Current	Investo Current			
Red, Amber	Green, Blue, Clear	Signal Line Current	illiusii Curielit			
ab. 30mA	ab. 25mA	ab. 40mA	ab. 250mA			

Wiring



How to Order





AR-078

CE 60 II 3GD Ex nA IIC T4 Gc, Ex tc IIIC T85°C Dc IP65 94/9/EC (ATEX) CENELEC: EN 60079-0, EN 60079-15, EN 60079-31

Explosion-safe Signal Tower



*3/4 NPT Adaptor also available







FEATURES

- Explosion-Safe for gas and dust
- Suitable for Zone 2 and Zone 22
- CE Compliance in accordance to ATEX
- Full and brilliant lumination
- LED double reflection lighting system
- Different lens colors available
- Stackable from 1 to 5 tiers
- Wall mount or direct mount
- Ingress protection of IP65 (IP54 with buzzer)
- Available with "flashing/ non-flashing" and two audible alarm sounds







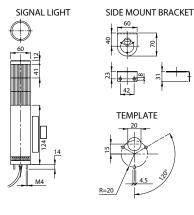
Explosion-Safe

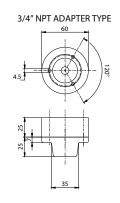
Φ60

Explosion-Safe Signal Tower φ60mm with sealed cable

Dimensions (Unit: mm)

Side-mount Bracket



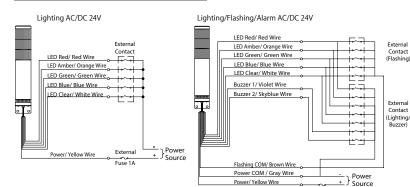


Specifications

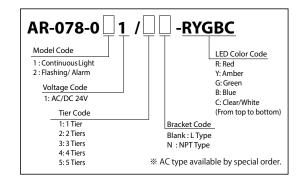
Explosion-safety	CE Ex II3 GD; Ex nA IIC T4 Gc: Ex tc IIIC T85°C Dc IP65
CE Conformities	EN 60079-0, EN 60079-15, EN 60079-31
Certification	EC Declaration of Conformity
Ambient Temperature	-30°C - +60°C
Ingress Protection	IP65 to EN 60529
Material	ABS Tower Body
Lighting Source	Multiple LED's with Double Reflection System
Acoustical Source	Buzzer with two different tones: 90dB (at 1m)
Rated Voltage	AC/DC 24V
Assembly Position	As Desired
Activation Time	100%
Module Colors Available	Red, Amber, Green, Blue, Clear/White
Cable	Factory sealed cable, φ8mm, lenght 3 meters

CURRENT RATINGS						
	LED	BUZZE	ER			
Signal	Signal Line Current		Inrush Current			
Red, Amber	Green, Blue, Clear	Signal Line Current	illiusii Curielit			
ab. 30mA	ab. 25mA	ab. 40mA	ab. 250mA			

Wiring



How to Order



LKEH-EX





CE 🍪 II 3GD Ex nA IIC T4 Gc, Ex tc IIIB T85°C Dc IP54 94/9/EC (ATEX) CENELEC: EN 60079-0, EN 60079-15, EN 60079-31

Explosion-Safe LED Hybrid Signal Tower







32 Channels (Binary)

63 Seconds

105_{dB at 1m}

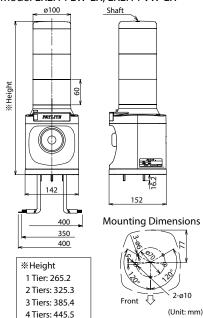
Explosion-Safe

FEATURES

- Explosion-Safe for gas and dust
- Suitable for Zone 2 and Zone 22
- CE Compliance in accordance to ATEX
- LED brightness is visible from a far distance with a big 100mm diameter module
- Super-bright LED colors corresponding to different voice, alarm, chimes and melody sounds.
- Voice alert messages of up to 63 seconds (64kbit/sec) with 5 channels for playback.
- 32 different melody, chime sound combinations are pre-recorded
- 8 sounds can be played back with bit input, or 32 sounds with binary input
- · Stackable from 1 to 4 tiers
- Adjustable volume from 0 to 105dB (at 1m)
- MP3 model is field-programmable, using an SD Card for model LKEH-FV-EX
- Robust design able to withstand vibrations of up to 2G.
- Body is made of Acrylonitrite-Ethylene-Styrene for weather resistance
- One common wire can easily control both LED Units and audible signals
- NPN open-collector connection is standard, PNP is available upon request

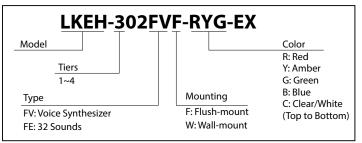
Dimensions (Unit: mm)

Model LKEH-FEW-EX, LKEH-FVW-EX



Model LKEH-FEF-EX, LKEH-FVF-EX

How to Order

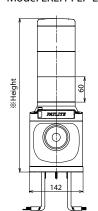


Model	MP3	Power
LKEH-FEF-EX/LKEH-FEW-EX	_	14.2W
LKEH-FVF-EX/LKEH-FVW-EX	Supports	14.2W

SD Card (SDV-128) for models LKEH-FVF-EX and LKEH-FVW-EX is sold separately.

Sound Selection Chart

Beep (slow intermittent)	Stutter + Bell	Inverted Reveille	Annie Laurie	
Stutter (rapid intermittent)	. Melody Chime I Galactic Motor		London Bridge is falling down	
Bell (clear high-pitch)	Chime Ringing Phone Mary had a little		Mary had a little Lamb	
Yelp (rapid siren)	Call Sign	Call Sign Two Tone Camptown Rac		
Rapid Hi-Lo	Train Ride Alarm Clock Amarylli		Amaryllis	
Melody Chime	Galloping Hi-Lo Ringing Hi-Lo Mozart Symph		Mozart Symphony No. 40	
Synthesized Piano	Alien Chatter	Fur Elise Ave Maria		
Synthesized Bell	Falling Crystals	lling Crystals Bach Minuet in Gmaj Grandfather's		





Specifications

Model	Rated Voltage	MP3, Melody	Operating Temperature Range	Recordable Duration	Mounting Brackets	Channels	Mass
LKEH-FEF-EX		Type-E		Pre-recorded		8ch bit input, 32ch binary input	2.8kg
LKEH-FEW-EX	DC 24V	Type-E	-10°C to +50°C			8ch bit input, 32ch binary input	3.2kg
LKEH-FVF-EX	DC 24V	MPEG1-Audio Layer III, 64kbit/s	85% RH or less	63 seconds	Flush-mount	5ch bit input, 32ch binary input	2.8kg
LKEH-FVW-EX	MPEG1-Audio Layer III, 64kbit/s		os seconas	Wall-mount	5ch bit input, 32ch binary input	3.2kg	

• The mass is based on a 3-tiered LED Model LKEH. The mass will change in accordance to the number of tiers.







EHS-EX/EHV-EX

Explosion-Safe Melody/Alarm Horn



- · Protection Rating of IP65.
- Explosion-Safe for gas and dust
- Suitable for Zone 2 and Zone 22
- CE Compliance in accordance to ATEX
- · EHS-EX comes with 32 preloaded melody and alarm sounds with adjustable volume up to 110dB (at 1m).
- Robust, indoor and outdoor use with vibration resistance up to 4.5G.
- EHV-EX comes with 63 preloaded crisp and clear melody and alarm sounds with adjustable volume up to 110dB (at 1m).
- EHV-EX offers a field-programmable MP3 function with a maximum of 220 sec. of recording time (at 64bps) and an adjustable volume up to 105dB (at 1m).
- Ideal for plant-wide notification, public address and process control.
- UL464, CSA-C22.2 NO.205-M1983, FCC Part 15 Subpart B Class 4.
- CE, RoHS Compliant (EHS-M1 and EHV-M1 Only).



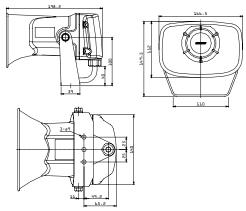
63 Channels (Binary)

10 dB at 1m (EHS)

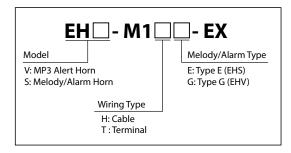
IP65

Explosion-Safe

Dimensions (Unit: mm)

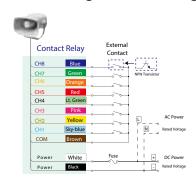


How to Order

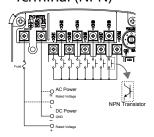


Wiring

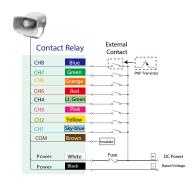
Non-voltage (NPN) Wiring



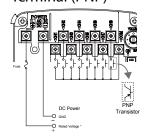
Terminal (NPN)



PNP Wiring



Terminal (PNP)



Model	Rated Voltage	Voltage Range	Power Consumption	Rated Current Consumption	Sound Pressure (max)	Operating Temperature Range	No. of Playback Messages	Protection Rating	Wiring Type	Mass
EHS-M1H-EX EHS-M1T-EX	DC 12 - 24V	DC 10.8V to 26.4V	4W (at DC24V)	450mA (max)	Alarm: 110dB (at 1m)	-20°C to +50°C (Less than 85% RH)	Bit Input: 8 Binary Input: 32	IP65	Cable Terminal	1.25kg
EHV-M1H-EX EHV-M1T-EX	DC 12 - 24V	DC 10.8V to 26.4V	4W (at DC24V)	400mA (max)	Alarm: 110dB (at 1m) MP3: 105dB (at 1m)	-20°C to +50°C (Less than 85% RH)	Bit Input: 8 Binary Input: 63	IP65	Cable Terminal	1.25kg

Note 1: The sound pressure level is based on measurements under controlled conditions (voice-synthesized 1 kHz sine wave played back from a distance of 1 meter), therefore the surrounding environmental conditions and message content will result in different values for the sound pressure level.

CLN-EX

CE 😸 II 3GD Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc IP65 94/9/EC (ATEX) CENELEC: EN 60079-0, EN 60079-15, EN 60079-31

Explosion-Safe LED Work Light





Daylight (#)

IP66G/67G/69K

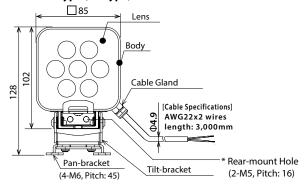
Explosion-Safe

FEATURES

- 820 lx brightness
- 60,000 hrs., or about 7 years of long service life (*1)
- IP66G, IP67G, IP69K protection (*2)
- Low current draw of 174mA
- DC 24V (Polarized)
- Wide operating temperature range (-40 to +60°C)
- IEC62471 Compliance (Photobiological Safety Standard)
- Daylight Color Temperature (6,500K), suitable for very detailed work
- · Made of aluminum alloy and tempered glass, is resistant to water, oil and coolants
- Includes a flexible stainless-steel angle bracket to adapt to various scenarios (*3)
- Compact, light-weight, durable design (Thickness:22.2mm x Width: 85mm x Height: 128mm)
- *1: The typical value of LED brightness is 70% of the original specification, but may vary depending on actual applications.
- *2 : IP66G and IP67G are Japanese Industrial Standards (JIS C0920-2003), and IP69K is the German DIN 40050 PART9 Standard
- *3 : CLN-24-CD-PT-EX Work Light can only be installed where risk of mechanical danger is limited to 2 Joules of impact energy.

Dimensions (Unit: mm)

• Pan/Tilt Type (PT Type)



How to Order

CLN-24-CD-PT-EX

Movable Type PT: Pan/Tilt

Model		CLN-24-CD-PT-EX
Color Code (Color)		CD (Daylight)
Color Temperature (typ.)		6500K
Illumination (typ.) (Centered at DC 24V)	1m	820 lx
Total Luminous Flux (typ.)	·	550 lm
Rated Voltage		DC 24V (Polarized)
Operating Voltage Range		DC 24V ±10%
Rated Consumption Current/Power Dissip	oation	174mA ±10% / 4.2W
Operating Ambient Temperature		-40°C to +60°C (90% RH, no condensation)
Main Unit Material		Body: Aluminum Alloy Lens: Tempered Glass
Protection Rating		IP66G/67G (JIS C 0920)/69K (DIN 40050 part 9) (excluding cable ends)
Mounting Location/Direction		Indoor / Any Direction
Insulation Resistance		DC 500V 5M Ω or more between power input and metallic part
Withstand Voltage		500VAC for 1 minute between power input and chassis
Vibration Resistance		30Hz total amplitude 0.3mm ^{p-p} (Back and forth, up and down, left and right for 2 hrs each) total amplitude 0.3mm ^{p-p} (10-57Hz), Acceleration 19.6m/s²
Mass (Tolerance ±10%)		430g

CLK-EX

CE 60 II 3GD Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc IP65 94/9/EC (ATEX) CENELEC: EN 60079-0, EN 60079-15, EN 60079-31

Explosion-Safe LED Work Light

CLK6C-24AG-CD-EX

CLK3S-24AG-CD-EX









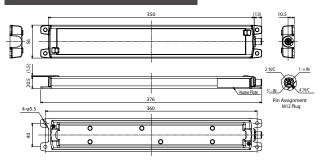
- Aluminum Housing
- Tempered glass lens
- IP66G/67G/69K ratings
- Explosion-safe for gas and dust
- Suitable for Zone 2 and Zone 22
- Temperature Range of -40°C to +60°C
- CE Compliance in accordance to ATEX
- 1,200 lx (3S/3C) and 2,100 lx (6S) brightness
- · Outdoor installation allows Upright installation only
- LED Color Temperatures of 6,500K (CD) and 5,000K (CN)
- Stainless Steel Housing (available for 350mm long models)
- 250mm length (2S, 350mm length (3S/3C), 650mm length (6S) available



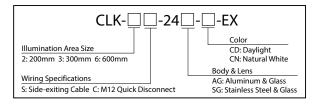
IP66G/67G/69K

Explosion-Safe

Dimensions (Unit: mm)



How to Order



5.2×7.2 12 Sliding Width

Model	CLK- □ □ -24- □ □ - EX
Color Code (Color)	Natural White (CN) / Daylight (CD)
Rated Voltage	DC 24V
Operating Voltage Range	DC 24V ±10%
Rated Consumption Current	522mA ±40mA (3S / 3C Type)
Light Source	High intensity LED x 18 elements (3S / 3C Type)
Luminous Intensity at Optical Center (lx at 1m)	1200 (3S / 3C Type)
Main Unit Material	Body: Aluminum Alloy or Stainless Steel Lens: Tempered Glass
Operating Temperature Range	-40°C to +60°C (90% RH, no condensation)
Mounting Location/Direction	Indoor / Any Direction
Protection Rating	IP66G/67G (JIS C 0920)/69K (DIN 40050 part 9) (excluding cable ends)
Vibration Resistance	19.6m/s ²
Mass (Tolerance ±10%)	1.49kg

^{*1:} The LED Work Light can only be installed in places where risk of mechanical danger is limited to an impact energy of 2 Joules. (1kg mass dropped at a 20cm height)

CLA-EX

CE SII 3GD Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc IP65 94/9/EC (ATEX) CENELEC: EN 60079-0, EN 60079-15, EN 60079-31

Explosion-Safe LED Work Light





Daylight Natural White



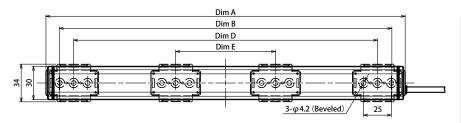
1P66/67/69K

Explosion-Safe

FEATURES

- Explosion-safe for gas and dust
- Suitable for Zone 2 and Zone 22
- CE Compliance in accordance to ATEX
- DC 24V (Polarized, ±10%)
- · Cable length: 3 meters
- IP66/67/69K ratings
- Body made of Polycarbonate Resin
- Polycarbonate mounting brackets available
- Lenghts available are; 100mm (140 lx), 200mm (270 lx), 300mm (400 lx), 600mm (650 lx), 900mm (810 lx), 1,200mm (890 lx), 1,500mm (945 lx)
- Temperature Range of -40°C to +60°C (RH 90% or less, no condensation)

Dimensions (Unit: mm)



Model	Dim A	Dim B	Dim D	Dim E	Standard Bracket	
Name	Total Length	Lighting Area	Mountii	ng Pitch	SZ-310AR	
CLA1S	124	100	74	_		
CLA2S	224	200	174	_	2 nes	
CLA3S	324	300	274		2 pcs.	
CLA6S	624	600	574			
CLA9S	924	900	874	290	4 pcs	
CLA12S	1,224	1,200	1,174	390	4 pcs.	

How to Order

CLA□S-24-□-30-EX							
		LED Color					
		CD: Daylight (6800K)					
	Length (L)	CN: Natural White (4800K)					
	1: 100mm	6: 600mm					
	2: 200mm	9: 900mm					
	3: 300mm	12: 1,200mm					

Model	Luminous Color	Length	Rated Voltage	Rated Current Consumption	Center Radiation (lx/50cm)	Mounting Direction	Vibration Resistance	Mass						
CLA1S -24-CD-30-EX	Daylight	100mm	DC 24V	104mA	140 lx		19.6m/s²	80g						
CLA2S -24-CD-30-EX	Daylight	200mm		208mA	270 lx	Any Direction		130g						
CLA3S -24-CD-30-EX	Daylight	300mm		240mA	400 lx			180g						
CLA3S -24-CN-30-EX	Natural White	30011111						1809						
CLA6S -24-CD-30-EX	Daylight		C00	600	C00	600mm	600mm	600mm	(Polarized)	480mA	650 lx	(Indoors Only)	19.011/5	340a
CLA6S -24-CN-30-EX	Natural White	OUUIIIII		400IIIA	050 IX			340g						
CLA9S -24-CD-30-EX	Daylight	900mm		720mA	810 lx			500g						
CLA12S -24-CD-30-EX	Daylight	1200mm		960mA	890 lx			660g						

RES-A

RES-A TIIS EXCLUB-H2T6 Explosion-Safe Revolving Warning Light



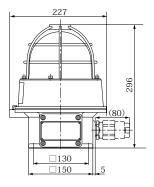
Robust Heavy Duty Revolving Warning Light.

FEATURES

- φ224mm Diameter.
- Rotating parabolic reflector to enhance visibility from a distance.
- Upright, inverted, and sideways installation allowed for indoors; and upright for outdoors only.
- Main body is made of Aluminum Alloy Die-cast with silver-colored baked enamel finish.
- Dome is made from superior weather-resistant and light-translucent acrylic resin.
- Available Colors are Red, Amber, Green, and Blue.

*Cable Glands are optional parts and need to be ordered separately.

Dimensions (Unit: mm)



Mounting Dimensions

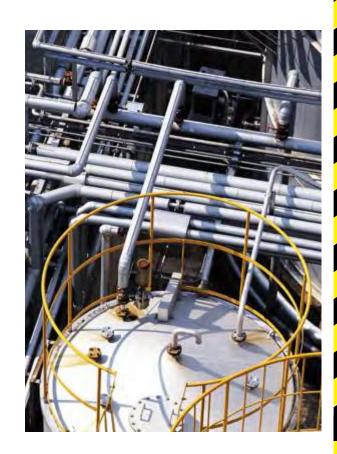
Mounting Hole 4- ø9 130

Specifications

Model	Rated Voltage	Current	Flash Rate	Вι	Mass	
Model	Rated voltage	Current	(fpm)	Ratings	Repl. No.	Mass
RES-12A	DC 12V	0.9A	170	12V 10W	9	
© RES-24A	DC 24V	0.5A	170	24V 10W	10	
© RES-48A	DC 48V	0.3A	150	48V 10W	11	
RES-100A	AC 100V - 110V	0.1A				6.5kg
© RES-120A	AC 115V - 120V	0.14	170	12V 5W	12	
RES-220A	AC 200 - 220V	0.05A	170	120 300	12	
© RES-240A	AC 230 - 240V	0.03A				

Bulb: G18 BA15S

Special Order





Signal Tower





Super-slim 25mm Signal Tower with aluminum body, ideal for small devices.

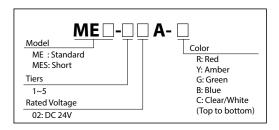
FEATURES

- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Lens is made of superior impact and heat resistant polycarbonate resin for superior durability and light transmission.
- Available Colors are in Red, Amber, Green, Blue, and Clear/White.
- Specially enhanced high intensity illumination design.
- Direct mount installation with just a single hole.
- Interchangeable Modules need no re-wiring, even after installation.
- Main body is constructed of corrosion resistant anodized aluminum to retain its external beauty.
- Body Length for MES-A is 40mm, and for the ME-A is 200mm.
- · Conforms to the CE requirements.
- UL recognized components (File No. E215660)

AVAILABLE BY SPECIAL ORDER

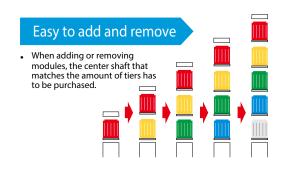
- · Cable: Versatile and flexible 3m cable.
- IP65 (for ME/MES).
- · PNP Compatible: ME and MES 24V Types.

How to Order



Patented reflection system increases visibility





Interchangeable LED Modules Changeable color sequence: Easy to add/

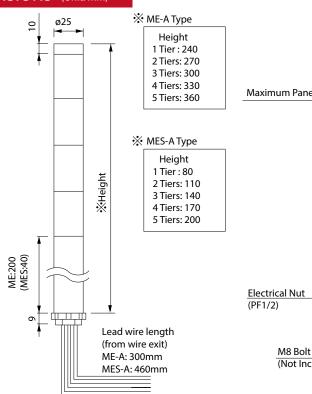
remove up to 5 colored modules even after installation.

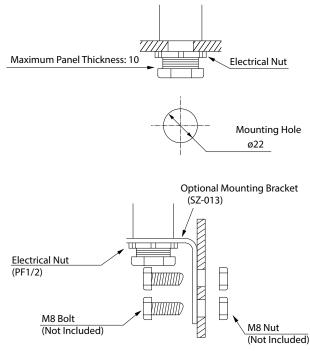
Note: LED modules of the same color within a

signal tower will light up simultaneously.

Wiring doesn't change

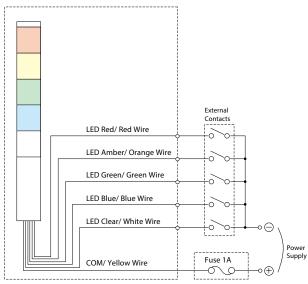
 The LED Module colors correspond to the wiring, so re-wiring is not necessary.



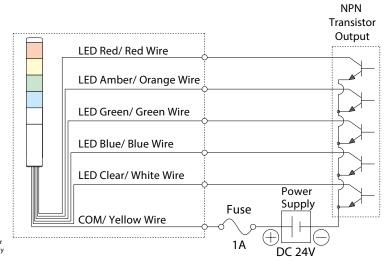


Wiring

• ME-A/MES-A Contact/ Switch



• ME-A/MES-A NPN Open Collector



Stack	Model	Rated	Power	Ma	ass
Number	Model	Voltage	Consumption	ME	MES
	ME/MES-102A-R		0.6W		
	ME/MES-102A-Y		0.6W]	
1 Tier	ME/MES-102A-G		0.5W	220g	120g
	ME/MES-102A-B		0.5W]	
	ME/MES-102A-C		0.5W]	
	ME/MES-202A-RY		1.2W	230g	130g
2 Tiers	ME/MES-202A-RG		1.1W		
	ME/MES-202A-RB	DC 24V	1.1W		
	ME/MES-202A-RC		1.1W		
	ME/MES-302A-RYG		1.7W		140g
3 Tiers	ME/MES-302A-RYB		1.7W	240g	
	ME/MES-302A-RYC		1.7W		
4 Tiors	ME/MES-402A-RYGB		2.3W	2500	150
4 Tiers	ME/MES-402A-RYGC		2.3W	250g	150g
5 Tiers	ME/MES-502A-RYGBC		2.8W	260g	160g

MP/MPS

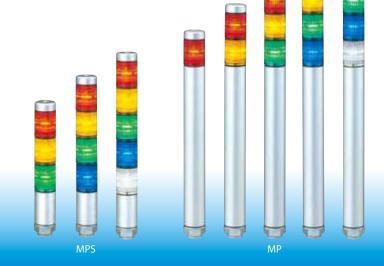


Signal Tower





Patented reflection system increases visibility.



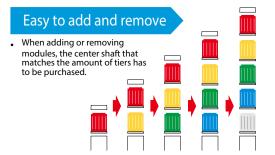
Super slim 30mm silver body Signal Tower, ideal for small devices.

FEATURES

- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Double-insulated construction for enhanced durability and safety in the work environment.
- Direct mount installation with just a single hole.
- Interchangeable Modules need no re-wiring, even after installation.
- Main body is constructed of superior impact and heat resistant ABS resin.
- Lens is made of superior weather resistant and light translucent AS resin.
- Available Colors are in Red, Amber, Green, Blue, and Clear/White.
- Conforms to the CE requirements.
- UL Recognized Components (File No. E215660)
 AVAILABLE BY SPECIAL ORDER
- All Clear Lenses: Distinctive color recognition when operated with clear lenses (B0738 type).
- Cable: Versatile and flexible 3m cable.



Optional MP-B Buzzer (See Pg. 193)



Interchangeable LED Modules

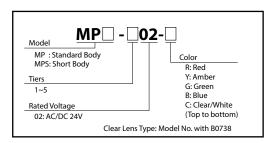
Changeable color sequence: Easy to add/ remove up to 5 colored modules even after installation.

Note: LED modules of the same color within a signal tower will light up simultaneously.

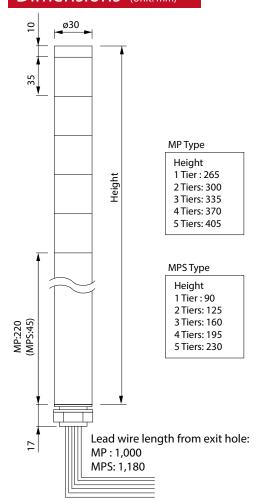
Wiring doesn't change

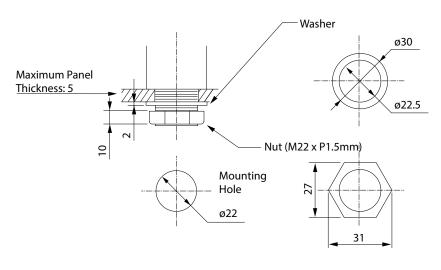
• The LED Module colors correspond to the wiring, so re-wiring is not necessary.

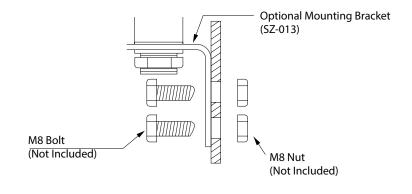
How to Order



Stack	Model	Rated Voltage	Power	Mass		
Number	Model	hated voltage	Consumption	MP	MPS	
1 Tier	MP/MPS-102		0.7W	210g	110g	
2 Tiers	MP/MPS-202	[1.4W	230g	130g	
3 Tiers	MP/MPS-302	AC/DC 24V	2.0W	250g	150g	
4 Tiers	MP/MPS-402		2.6W	270g	170g	
5 Tiers	MP/MPS-502		3.2W	290g	190g	

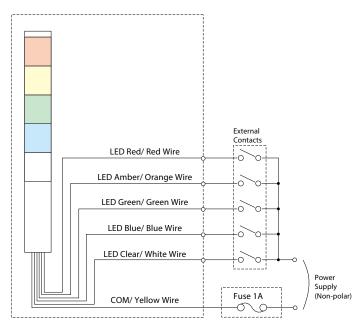


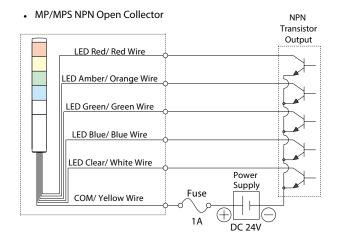




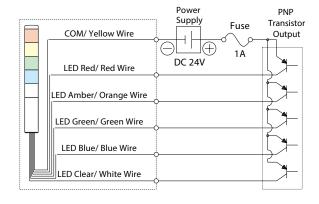
Wiring

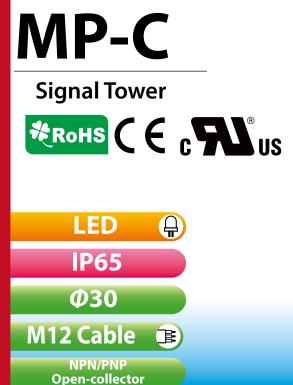
· MP/MPS Contact/ Switch





MP/MPS PNP Open Collector







Super slim 30mm silver body Signal Tower with M12 disconnect.

FEATURES

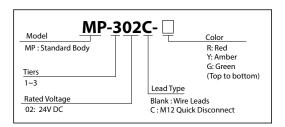
- Quick Disconnect M12 connector for the MP Signal Tower.
- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- · Double-insulated construction for enhanced durability and safety in the work environment.
- Direct mount installation with just a single hole.
- Interchangeable Modules need no re-wiring, even after installation.
- Main body is constructed of superior impact and heat resistant ABS resin.
- Lens is made of superior weather resistant and light translucent AS resin.
- Available in 1, 2 or 3 tier stacks with colors in Red, Amber and Green.
- Conforms to the CE requirements.
- UL Recognized Components (File No. E215660)



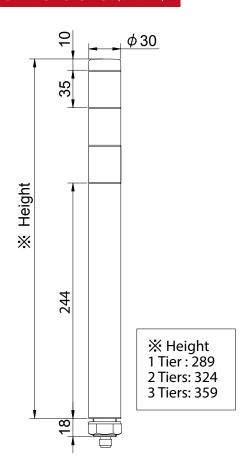
Optional MP-B Buzzer (See Pg. 193)

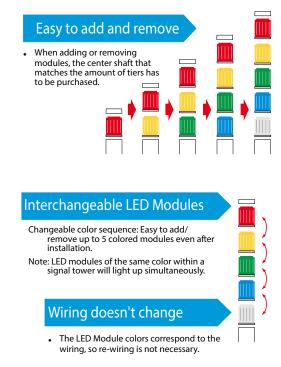
Patented reflection system increases visibility. High-intensity Good visibility from any direction

How to Order



Stack Number	Model	Rated Voltage	Power Consumption	Mass
1 Tier	MP-102		0.7W	240g
2 Tiers	MP-202	DC 24V	1.4W	260g
3 Tiers	MP-302		2.0W	280g





Wiring

External Contact Capacity		I _s : Curre	nt Capacity	V _s : Withstand Voltage		
15D 11 11 (4 Ti)	Current Consumption	Red: 29.0mA Amber: 29.5mA		Green: 23.9mA		
LED Unit (1 Tier)	Capacity	I₅≥50mA		I₅≥50mA V₅≥35V D0		V _s ≥35V DC
Dower Cumply	Current Consumption	200mA				
Power Supply	Capacity	I _s ≥200mA		V _s ≥35V DC		

M12 Connector Pin No.

Pin No.	LED Unit Color
1	Green
2	Red
3	Common
4	Amber

• MP-C M12 Connector



LCE/LCE-U









from any angle

Adjustable Volume (Max. 85dB at 1m)



PATLITE's original dual reflection system with its exclusive hybrid prism-cut lens and five color LED modules, creates a bright and evenly distributed illumination.

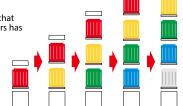
The low-priced, high quality LED Signal Tower featuring low maintenance and energy savings.

FEATURES

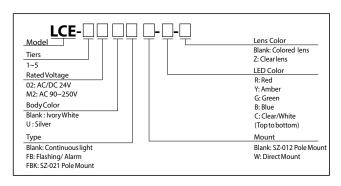
- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Two Built-in Alarms (FB Type) with selectable sound patterns.
- Adjustable volume with a maximum of 85dB (at 1m).
- Direct or pole mount installation.
- Color-coordinated Wiring Corresponding to the lens color for quick wiring and verification.
- Interchangeable LED Modules requires no re-wiring, even after installation.
- Main body made of ABS resin with superior resistance to impact and heat. (U type has silver body and 3m cable)
- Lens is made of superior impact resistant and light translucent AS resin.
- NPN/PNP Compatible inputs for 24V DC type (M2 type compatible with NPN only).
- Available Colors are in Red, Amber, Green, Blue, and Clear/White.
- · High visibility from any angle.
- · Conforms to the CE requirements (for 24V type).
- UL Recognized Components (File No. E215660).
- NEMA Type 4/4X/13 for -W, -FBW Only

Easy to add and remove

 When adding or removing modules, the center shaft that matches the amount of tiers has to be purchased.



How to Order



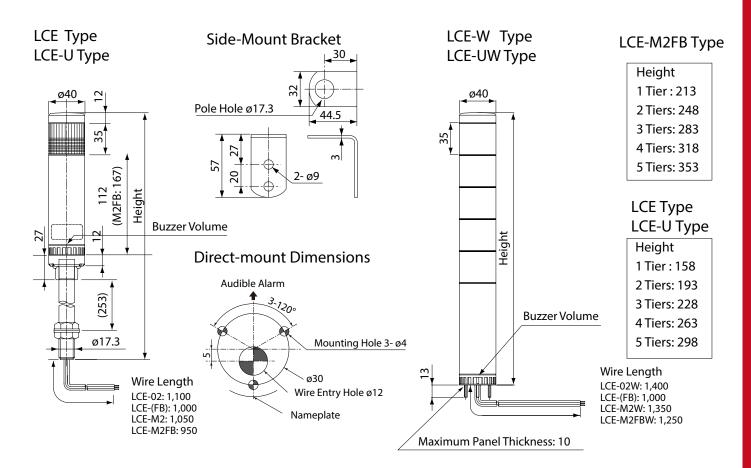
Interchangeable LED Modules

Changeable color sequence: Easy to add/ remove up to 5 colored modules even after installation.

Note: LED modules of the same color within a signal tower will light up simultaneously.

Wiring doesn't change

 The LED Module colors correspond to the wiring, so re-wiring is not necessary.



Stack	Model	Rated Voltage	Power	Mass			
Number	Model	hated voltage	Consumption	LCE	LCE-W	LCE-FB	LCE-FBW
1 Tier	LCE-102(U)	AC/DC 24V	1.7W	520g	160g	580g	220g
1 Her	LCE-1M2	AC 90 -250V	1.9W	600g	240g	650g	290g
2 Tiers	LCE-202(U)	AC/DC 24V	2.4W	550g	190g	610g	250g
2 Hers	LCE-2M2	AC 90 -250V	2.6W	630g	270g	680g	320g
3 Tiers	LCE-302(U)	AC/DC 24V	3.0W	580g	220g	640g	280g
3 Hers	LCE-3M2	AC 90 -250V	3.2W	660g	300g	710g	350g
4 Tiers	LCE-402(U)	AC/DC 24V	3.6W	610g	250g	670g	310g
4 Hers	LCE-4M2	AC 90 -250V	3.8W	690g	330g	740g	380g
5 Tiers	LCE-502(U)	AC/DC 24V	4.2W	640g	280g	700g	340g
3 Hers	LCE-5M2	AC 90 -250V	4.4W	720g	360g	770g	410g

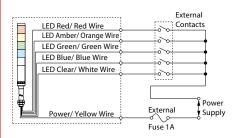




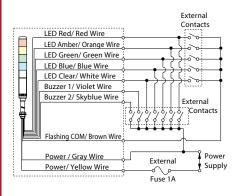


Wiring

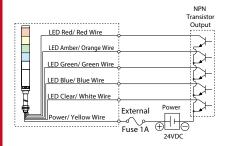
AC/DC 24V Lighting Type



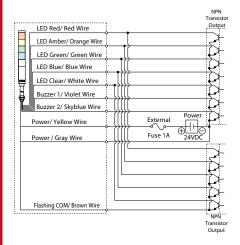
• AC/DC 24V Lighting/Flashing Type



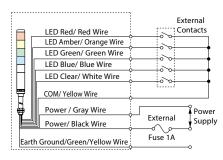
• DC 24V NPN Type



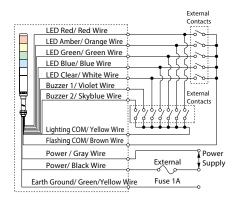
• DC 24V NPN FB Type



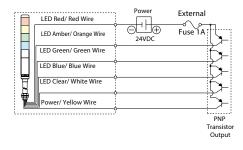
• AC 90 - 250V Lighting Type



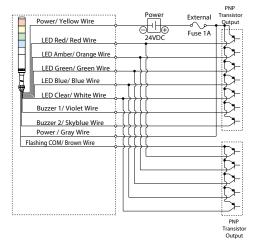
· AC 90 - 250V Lighting/Flashing Type



DC 24V PNP Type



• DC 24V PNP FB Type



Signal Line voltage and current per LED Module

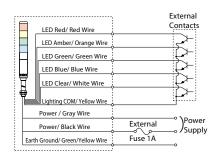
Model Rated Voltage			LED		Alarm	
	Signal Line Voltage	Signal Line Current		Signal Line	Inrush	
		voltage	R, Y	G, B, C	Čurrent	Current
LCE/LCE-U	AC/DC 24V	AC/DC 24V	30mA	25mA	40mA	250mA
LCE-M2	AC 90V - 250V	DC 24V	30mA	25mA	40mA	250mA

Lead-wire color coordination table

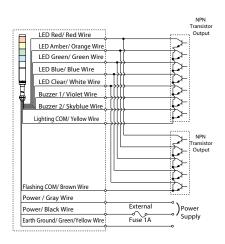
LED Unit Color	Lead Wire Color		
Red	Red		
Amber	Orange		
Green	Green		
Blue	Blue		
Clear/White	White		

Alarm Sounds	Lead Wire Color		
Buzzer 1	Purple		
Buzzer 2	Skyblue		

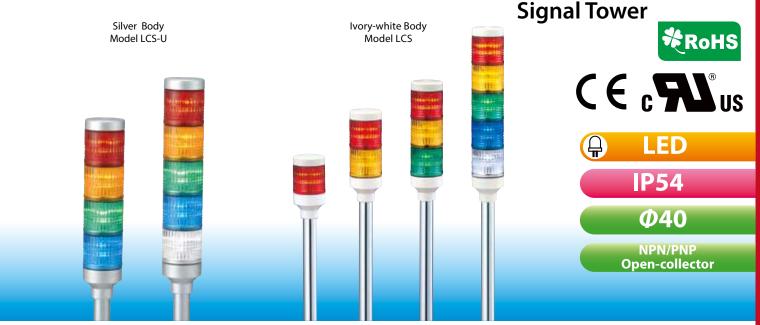
AC 90 - 250V NPN Type



AC 90 - 250V NPN FB Type



LCS/LCS-U



Versatile LED Signal Tower, featuring high quality with low price.



PATLITE's original dual reflection system with its exclusive hybrid prism-cut lens and five color LED modules, creates a bright and evenly distributed illumination.



High visibility from any angle



When ordering the clear-lens Signal Tower type, be sure to add "-Z" at the end of the part number when ordering.

FEATURES

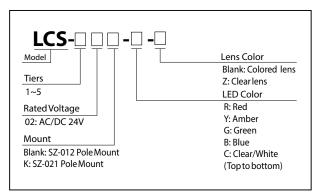
- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Direct or pole mount installation.
- Color-coordinated wiring corresponding to the lens color for guick wiring and verification.
- Interchangeable LED Modules requires no re-wiring, even after installation.
- Main body made of ABS resin with superior resistance to impact and heat.
- Lens is made of superior impact resistant and light translucent AS resin.
- Available Colors are in Red, Amber, Green, Blue, and Clear/White.
- Has the CE mark and conforms to the requirements for the EC directive.
- Is a UL Recognized Component (File No. E215660).

AVAILABLE BY SPECIAL ORDER

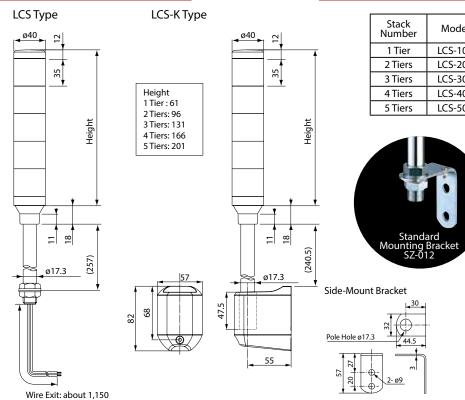
- · Cable: Versatile and flexible 3m cable.
- Body Color: Silver (LCS-U)
- All Clear Lenses: Distinctive color recognition when operated with clear lenses (B0738 type)
- Available Colors: Red, Amber, Green, Blue, White

Easy to add and remove • When adding or removing modules, the center shaft that matches the amount of tiers has to be purchased. Interchangeable LED Modules Changeable color sequence: Easy to add/remove up to 5 colored modules even after installation. Note: LED modules of the same color within a signal tower will light up simultaneously. Wiring doesn't change • The LED Module colors correspond to the wiring, so re-wiring is not necessary.

How to Order



Specifications

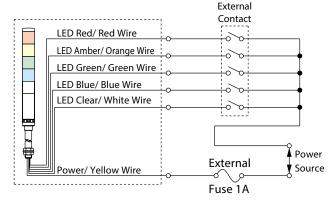


Stack	Model	Rated	Power	Mass	
Number	Model	Voltage	Consumption	LCS	LCS-K
1 Tier	LCS-102		0.7W	420g	540g
2 Tiers	LCS-202		1.4W	450g	570g
3 Tiers	LCS-302	AC/DC 24V	2.0W	480g	600g
4 Tiers	LCS-402		2.6W	510g	_
5 Tiers	LCS-502		3.2W	540g	



Wiring

AC/DC 24V Lighting Type



Lead-wire color coordination table

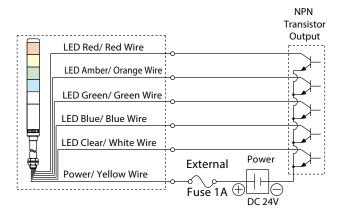
LED Unit Color	Lead Wire Color	
Red	Red	
Amber	Orange	
Green	Green	
Blue	Blue	
Clear/White	White	

Alarm Sounds	Lead Wire Color		
Buzzer 1	Purple		
Buzzer 2	Skyblue		

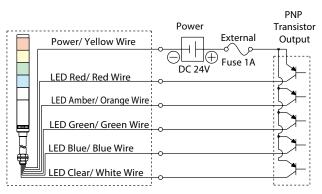
Signal Line voltage and current per LED Module

			LE	D	Alarm	
Model	_{del} Voltage Signal Line		Signal Lin	e Current	Signal	Inrush
Model	Type	Voltage	R, Y	G, B, C	Line Current	
LCS	AC/DC 24V	AC/DC 24V	30mA	25mA	40mA	250mA

DC 24V NPN Type



DC 24V PNP Type







Versatile, cost and energy efficient LED Signal Tower for every need.



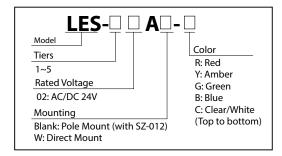


PATLITE's original dual reflection system with its exclusive hybrid prism-cut lens and five color LED modules, creates a bright and evenly distributed illumination.

FEATURES

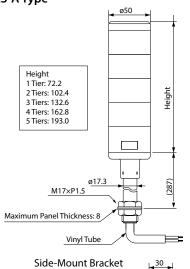
- PATLITE's exclusive Prism-Cut Lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Direct or pole mount installation.
- Main body is constructed of ABS resin with superior resistance to impact and heat.
- Lens is made of superior impact resistant and light translucent AS resin.
- · NPN/PNP Compatible.
- Conforms to the CE requirements.
- UL Recognized Components (File No. E215660).
- Available colors* are in Red, Amber, Green, Blue, and Clear/White.
- * Tiers cannot be increased due to the number of wires corresponding to the amount of tiers.

How to Order



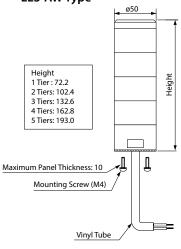
Stack Number		Model	Rated Voltage	Power Consumption	Mass
	1 Tier	LES-102A		0.6W	500g
	2 Tiers	LES-202A		1.2W	530g
Pole Type	3 Tiers	LES-302A		1.7W	560g
	4 Tiers	LES-402A	AC/DC 24V	2.2W	590g
	5 Tiers	LES-502A		2.7W	600g
	1 Tier	LES-102AW		0.6W	70g
Direct	2 Tiers	LES-202AW		1.2W	100g
Mount	3 Tiers	LES-302AW		1.7W	130g
Туре	4 Tiers	LES-402AW		2.2W	160g
	5 Tiers	LES-502AW		2.7W	190g

LES-A Type



30 ▶

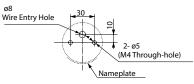
LES-AW Type



Lead-wire color coordination table

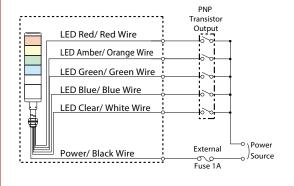
LED Unit Color	Lead Wire Color		
Red	Red		
Amber	Orange		
Green	Green		
Blue	Blue		
Clear/White	White		

Mounting Dimension

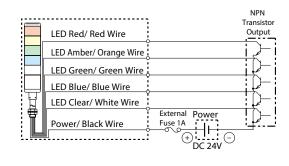


LES Model

AC/DC 24V Lighting Type



DC 24V NPN Type



DC 24V PNP Type

Signal Line voltage and current per LED Module

			LED			Alarm	
Model	odel Voltage Type Signal Volta		Signal Line Current			Signal Line	Inrush
		Voltage	R, Y	G, C	В	Current	Current
LES	AC/DC 24V	AC/DC 24V	25mA	20mA	22mA	40mA	150mA

: <u></u>		Power	External	PNP Transistor
	Power/ Black Wire	DC 24V	Fuse 1A	Output
	LED Red/ Red Wire	<u> </u>		
\square	LED Amber/ Orange Wire			i()—¦
	LED Green/ Green Wire			∏_!
	LED Blue/ Blue Wire			<u> ID-i</u>
1	LED Clear/ White Wire)—i
		(·



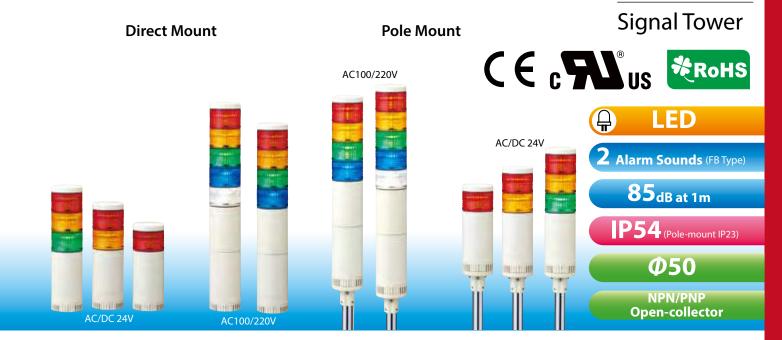












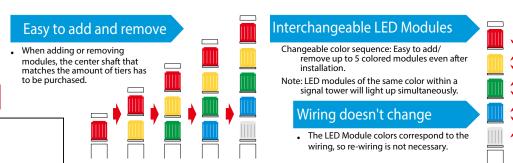
Versatile, cost and energy efficient LED Signal Tower for every need.



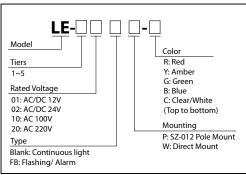
PATLITE's original dual reflection system with exclusive hybrid prism-cut lens and five color LED modules. creates a bright and evenly dillumination. distributed

FEATURES

- PATLITE's exclusive Prism-Cut Lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Two built-in alarms (FB Type) with selectable sound patterns.
- Adjustable volume of up to 85dB (at 1m).
- Direct or pole mount installation.
- Color-coordinated wiring corresponding to the lens color for guick wiring and verification.
- Interchangeable Modules need no re-wiring, even after installation.
- Main body is constructed of ABS resin with superior resistance to impact and heat.
- Lens is made of superior impact resistant and light translucent AS resin.
- NPN/PNP Compatible (Except for LE 100/220V AC, compatible with NPN only).
- Available colors are in Red, Amber, Green, Blue, and Clear/White.
- Conforms to the CE requirements (for 12V, 24V type only).
- UL Recognized Components (File No. E215660) (for 12V,24V type only).



How to Order



LE-FB Type LE Type Side-Mount Bracket 100/220V AC Type Height 1 Tier: 204.8 ø50 ø50 Pole Hole ø17.3 2 Tier: 235.0 3 Tiers: 265.2 4 Tiers: 295.4 5 Tiers: 325.6 12/24V AC/DC Type Height 1 Tier: 135.0 2 Tiers: 165.2 3 Tiers: 195.4 **Mounting Dimension** 4 Tiers: 225.6 5 Tiers: 255.8 Audible Alarm Mounting Hole 3- ø4 Baffle 33 Maximum Panel Thickness: 5 3-M3 Wire Entry Hole ø13 Nameplate M17×P1.5

Specifications

			_		ass
Stack Number	Model	Rated Voltage	Power Consumption	(FB)P	(FB)W
	LE-101	AC/DC 12V	1.1W		
4.7	LE-102	AC/DC 24V	1.6W	640g	260g
1 Tier	LE-110	AC 100V	5 7\A/	700	400
	LE-120	AC 220V	5.7W	780g	400g
	LE-201	AC/DC 12V	1.7W	690g	2100
2 Tiers	LE-202	AC/DC 24V	2.2W	690g	310g
	LE-210	AC 100V	6.7W	830g	450g
	LE-220	AC 220V	0.7 VV	8309	
	LE-301	AC/DC 12V	2.2W	740a	360g
3 Tiers	LE-302	AC/DC 24V	2.7W	7409	
3 11613	LE-310	AC 100V	7.5W	880g	500g
	LE-320	AC 220V	7.5	ooug	300g
	LE-401	AC/DC 12V	2.7W	790g	4100
4 Tiana	LE-402	AC/DC 24V	3.2W	790g	410g
4 Tiers	LE-410	AC 100V	8.3W	020-	
	LE-420	AC 220V	8.377	930g	550g
	LE-501	AC/DC 12V	3.2W	0.40	460
5 Ti	LE-502	AC/DC 24V	3.7W	840g	460g
5 Tiers	LE-510	AC 100V	9.1W	0000	600~
	LE-520	AC 220V	9.100	980g	600g





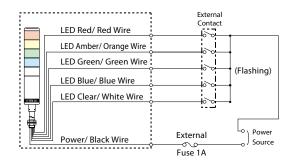




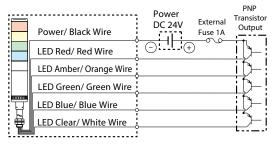
Wiring

LE Model

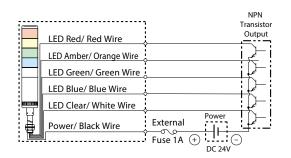
AC/DC 24V Lighting Type



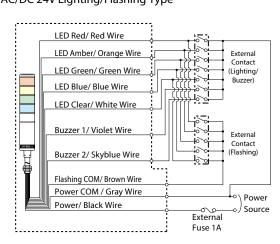
DC 24V PNP Type



DC 24V NPN Type

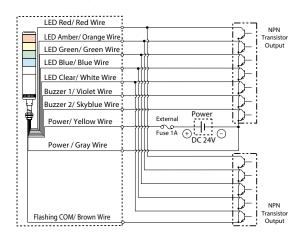


AC/DC 24V Lighting/Flashing Type

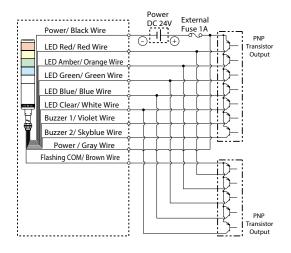


LE Model

DC 24V NPN FB Type



DC 24V PNP FB Type



Signal Line Voltage and Current per LED Module

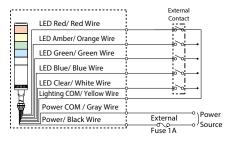
orginal time voltage and earlier per 110 modale							
		LED			Alarm		
Voltage Type Signal Line Voltage		Signal Line Current			Signal Line	Inrush	
	voltage	R, Y	G, C	В	Čurrent	Current	
AC/DC 12V	AC/DC12V	50mA	40mA	44mA			
AC/DC24V	AC/DC 24V	25mA	20mA	22mA	40mA	150mA	
AC 100V, 220V	DC 24V	25mA	20mA	22mA			

Lead-wire color coordination table

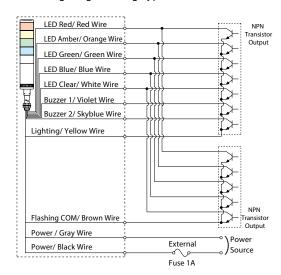
LED Unit Color	Lead Wire Color	
Red	Red	
Amber	Orange	
Green	Green	
Blue	Blue	
Clear/White	White	

Alarm Sounds	Lead Wire Color		
Buzzer 1	Purple		
Buzzer 2	Skyblue		

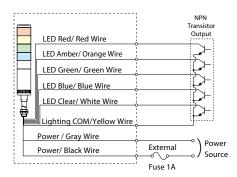
AC Power Lighting Type



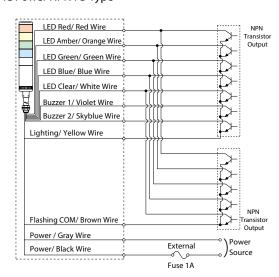
AC Power Lighting/Flashing Type



AC Power NPN Type



AC Power NPN FB Type



LU5

Signal Tower











2 Alarm Sounds

85_{dB at 1m}

IP65

Φ50

NPN/PNP **Open-collector**





Versatile modular Signal Tower featuring easy assembly and wiring designed for every need.

FEATURES

- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Two built-in alarms (FB Type) with selectable sound patterns.
- Maximum volume of up to 85dB (at 1m).
- Direct or pole* mount installation.
- · Color-coordinated Terminal block corresponding to the lens colors for quick wiring and verification.
- Interchangeable LED Modules requires no re-wiring, even after installation.
- · Lens is made of superior impact and heat resistant polycarbonate resin for superior durability and light transmission.
- Available Colors are in Red, Amber, Green, Blue, and Clear/White.

AVAILABLE BY SPECIAL ORDER

- Modules of the same color can be modified to operate from different terminals.
- * Optional part sold separately.



How to Order

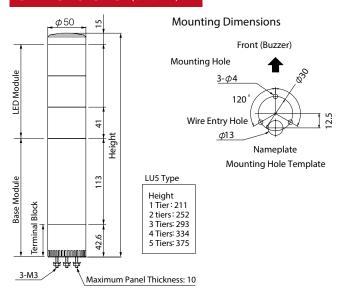
LED Module	- R	Base Unit LU5- 0	2 <u>U</u>	I <u>FB</u>
LED Unit	Color R: Red Y: Amber G: Green B: Blue C: White/Clear	Rated Voltage 02: DC 24V Base Color Blank: Ivory V U : Silver K : Black	Vhite	Type Blank: Continuous Light FB: Flashing/ Alarm

Specifications (Module)

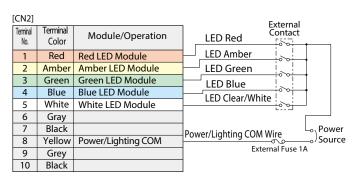
Module Color	Model	Rated Voltage	Operating Voltage Range	Current/ Power Consumption	Mass
RED	LU5-E-R			44mA/1.06W	
AMBER	LU5-E-Y	DC 24V 21.6V - 26.4V		44IIIA/ 1.00W	
GREEN	LU5-E-G				44g
BLUE	LU5-E-B			17mA/0.41W	
CLEAR	LU5-E-C				

Specifications (Base)

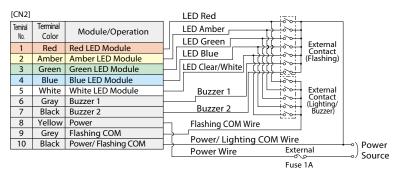
Model	Options	Rated Voltage	Operating Voltage Range	Open Collector	Mass
LU5-02	Continuous	DC 24V	21.6V - 26.4V	NPN/PNP	182g
LU5-02FB	2 Sounds/Flash	DC 24V	21.0V - 20.4V	INFIN/PINP	200g



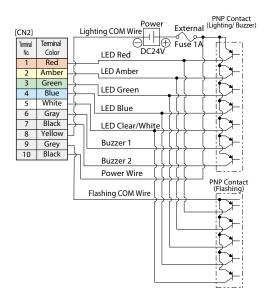
• AC/DC 24V Lighting Type



• AC/DC 24V Lighting/Flashing Type

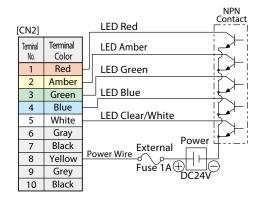


• DC 24V PNP FB Type

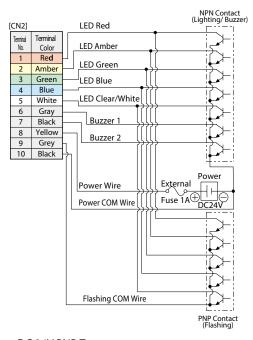


Wiring

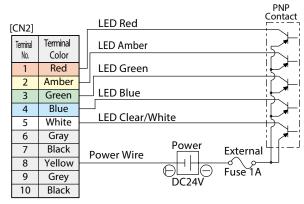
• DC 24V NPN Type



• DC 24V NPN FB Type

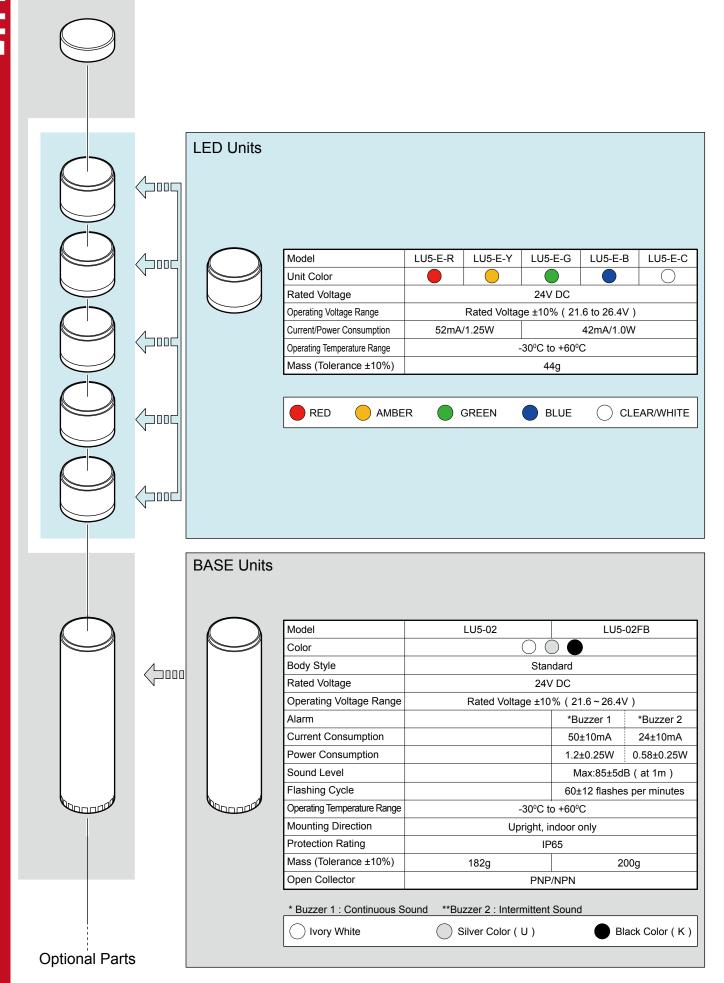


• DC 24V PNP Type

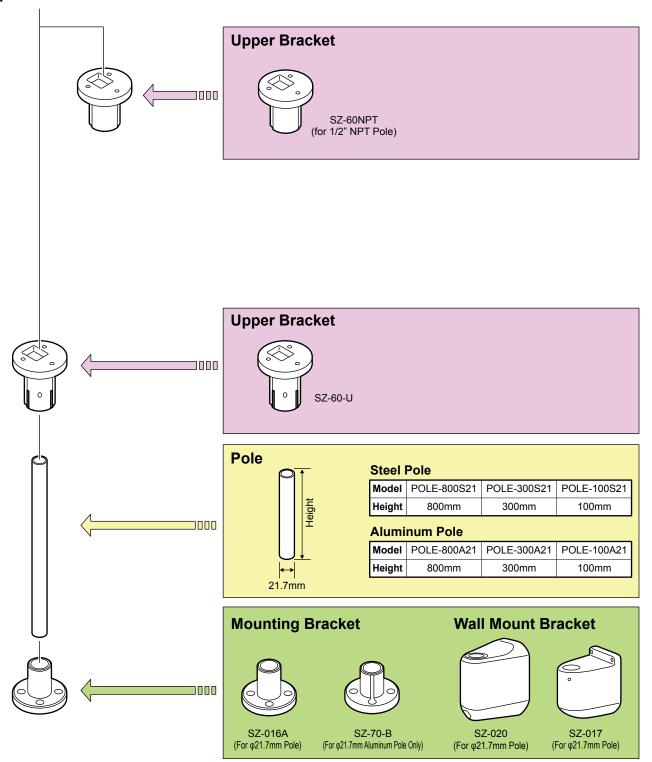


External Contact Capacity

External Contact Capacity				
Specifications		24V DC		
LED Unit	Current Consumption	Red,Amber: 52mA Green,Blue,White/Clear: 42mA		
(1 Unit)	Contact Capacity	Is≥100mA, Vs≥35V AC		
	Current Consumption	50mA		
Buzzer	Inrush Current	100mA		
	Contact Capacity	ls≥100mA, Vs≥35V AC		
Power	Current Consumption	360mA		
Supply	Contact Capacity	Is≥500mA, Vs≥35V AC		
External C	Contact Fuse			
Voltage		Fuse Amperage Rating		
All Models		250V, 1A		



Optional Parts



LME/LME-U/LME-N





Versatile, cost and energy efficient LED Signal Tower for every need.





FEATURES

- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Two built-in alarms (FB Type) with selectable sound patterns.
- Adjustable volume of up to 90dB (at 1m).
- Direct or pole mount installation.
- Interchangeable Modules need no re-wiring, even after installation.
- Main body is constructed of ABS resin with superior resistance to impact and heat. (U type has silver body and 3m cable)
- Lens is made of superior impact resistant and light translucent AS resin.
- NPN/PNP Compatible (Except 120/220V AC LME-U, compatible with NPN only).
- · Available colors are in Red, Amber, Green, Blue, and Clear/White.
- Conforms to the CE requirements (for 24V type only).
- UL Recognized Components (File No. E215660; for 24V, 120V, 230V type only)



PATLITE's original dual reflection system with its exclusive hybrid prism-cut lens and five color LED modules, creates a bright and evenly distributed illumination.



When ordering the clear-lens Signal Tower type, be sure to add "-Z" at the end of the part number when ordering.

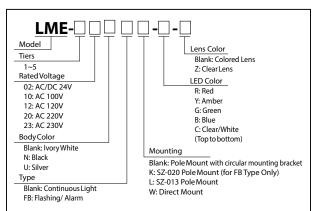
Easy to add and remove When adding or removing modules, the center shaft that matches the amount of tiers has to be purchased. Interchangeable LED Modules Changeable color sequence: Easy to add/remove up to 5 colored modules even after installation.

Note: LED modules of the same color within a signal tower will light up simultaneously.

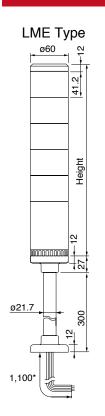
Wiring doesn't change

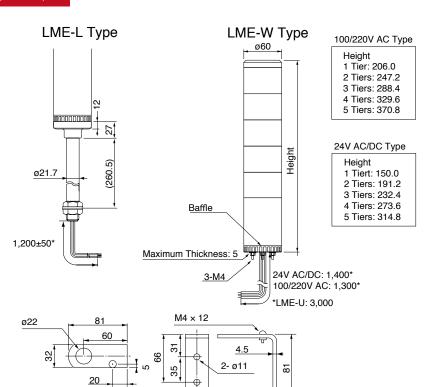
• The LED Module colors correspond to the wiring, so re-wiring is not necessary.

How to Order



Dimensions (Unit: mm)













Specifications

Stack Model		Rated	Power	Mass			
Number	Model	Voltage	Consumption	LME	LME-L	LME-W	
	LME-102	AC/DC 24V	2.2W	0.43kg	0.73kg	0.27kg	
	LME-110	AC 100V			1.06kg		
1 Tier	LME-112	AC 120V	5.1W	0.68kg	1.00kg	0.52kg	
	LME-120	AC 220V	3.100	0.00kg		0.52kg	
	LME-123	AC 230V					
	LME-202	AC/DC 24V	3.4W	0.48kg	0.78kg	0.32kg	
	LME-210	AC 100V			1.10kg		
2 Tiers	LME-212	AC 120V	7.1W	0.73kg	1.10kg	0.57kg	
	LME-220	AC 220V	7.1VV	0.73kg		0.57 kg	
	LME-223	AC 230V			_		
	LME-302	AC/DC 24V	3.8W	0.53kg	0.83kg	0.37kg	
	LME-310	AC 100V	7.9W		1.14kg	0.62kg	
3 Tiers	LME-312	AC 120V		0.78kg	1.14kg		
	LME-320	AC 220V	7.500	0.76kg	_		
	LME-323	AC 230V					
	LME-402	AC/DC 24V	4.2W	0.58kg	0.88kg	0.42kg	
	LME-410	AC 100V			1.18kg		
4 Tiers	LME-412	AC 120V	8.7W	0.83kg	1.10kg	0.67kg	
	LME-420	AC 220V	0.7 VV	0.03kg		0.07 kg	
	LME-423	AC 230V					
	LME-502	AC/DC 24V	4.6W	0.63kg	0.93kg	0.47kg	
	LME-510	AC 100V			1.22kg	0.72kg	
5 Tiers	LME-512	AC 120V	9.5W	0.86kg	1.22Kg		
	LME-520	AC 220V	J.5 V V	0.00kg			
	LME-523	AC 230V					

Lead-wire color coordination table

LED Unit Color	Lead Wire Color		
Red	Red		
Amber	Orange		
Green	Green		
Blue	Blue		
Clear/White	White		

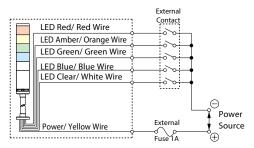
Alarm Sounds	Lead Wire Color
Buzzer 1	Purple
Buzzer 2	Skyblue

Signal Line voltage and current per LED Module

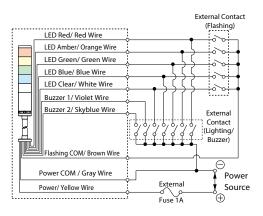
		LE	D	Alarm		
Rated Voltage	Signal Line Voltage	Signal Lin	e Current	Signal Line	Inrush Current	
Voltage	voltage	R, Y	G, B, C	Čurrent		
AC/DC 24V	AC/DC 24V					
AC 100V	DC 24V	50mA	20mA	40mA	250mA	
AC 200V	DC 24V					

Wiring

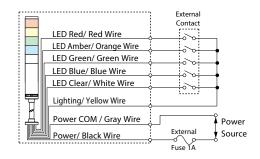
• DC 24V Lighting Type



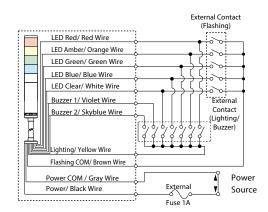
• DC 24V Lighting/Flashing Type



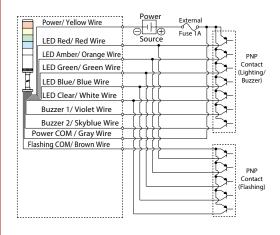
AC Power Lighting Type



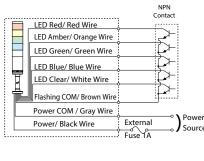
AC Power Lighting/Flashing Type



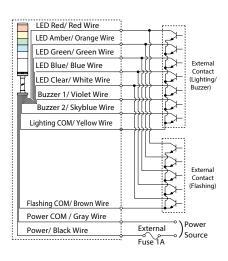
• DC 24V NPN FB Type



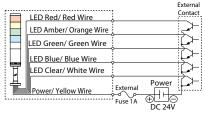
AC Power NPN Type



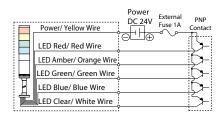
• AC Power NPN FB Type



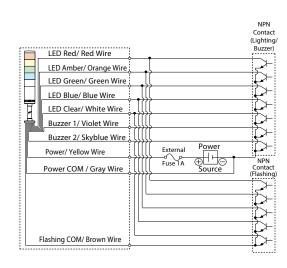
• DC 24V NPN Type



• DC 24V PNP Type



• DC 24V PNP FB Type





LME-S/LME-Q











2 Alarm Sounds (FB Type)

90dB at 1m (FB Type)

P65 (FB Type:IP54)

Cable

NPN/PNP **Open-collector**

Φ60

Space-saving, multi-color single-tier LED Signal Tower.



Adjustable Volume



PATLITE's original dual reflection system with its exclusive hybrid prism-cut lens and five color LED modules, creates a bright and evenly distributed illumination.

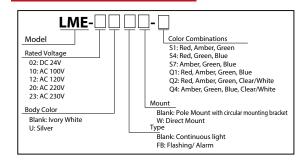
FEATURES

- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Two built-in alarms (FB Type) with selectable sound patterns.
- Adjustable volume of up to 90dB (at 1m).
- Direct or pole mount installation.
- Interchangeable Modules need no re-wiring, even after installation.
- PATLITE's single-tiered triple or quadruple colored unit is ideal for applications with limited vertical
- Pole-mount installation includes a circular mounting base as standard equipment.
- See "Color Coordination Combination" Section for available colors.

MODEL LME-S AVAILABLE BY SPECIAL ORDER

- Rated Voltage: AC/DC 24V only.
- **Body: Silver Color**
- Cable: Versatile and flexible 3m cable.
- PNP compatible

How to Order



Series	Stack	Model Rated Voltage		Power	Mass		
Jenes	Number	Model	Mateu voitage	Consumption	LME	LME-W	
		LME-102	DC 24V	2.2W	430g	270g	
		LME-110	AC 100V		860g		
LME-S	1 Tier	LME-112	AC 120V	5.1W		520g	
		LME-120	AC 220V	5.177			
		LME-123	AC 230V				
		LME-102	DC 24V	2.2W	430g	270g	
		LME-110	AC 100V				
LME-Q	1 Tier	LME-112	AC 120V	5.1W	680g	520g	
		LME-120	AC 220V	5.177	boug	3209	
		LME-123	AC 230V				

Patlite's unique single-tier unit with triple or quadruple colors integrated.

S1: Red, Amber, Green







S4: Red, Green, Blue







S7: Amber, Green, Blue







Q1: Red, Amber, Green, Blue



Q2: Red, Amber, Green, Clear/White



Q4: Amber, Green, Blue, Clear/White

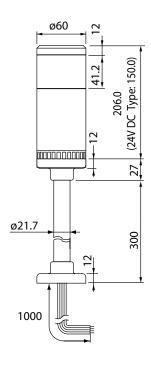


Clear Lens

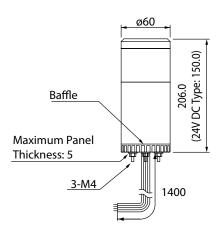
Patlite's new single-tier, multi-color unit is ideally suited for installations requiring a multiple color display but has limited vertical space. The clear lenses are easily distinguishable between lit and unlit lamps, and the unlit look can integrate visually with the equipment it is attached to.

Dimensions (Unit: mm)

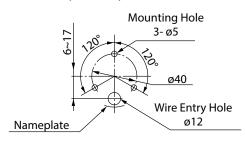
LME Type



LME-W Type



Mounting Dimensions (LME-W)





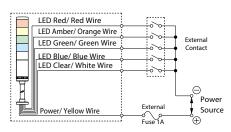




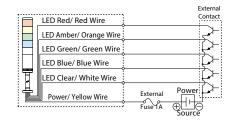


Wiring

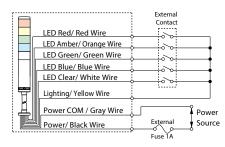
• DC 24V Lighting Type



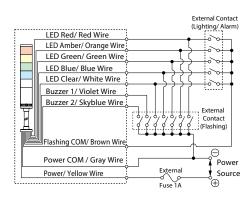
• DC 24V NPN Type



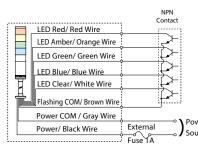
• AC Power Lighting Type



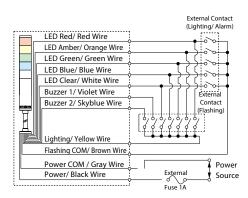
• DC 24V Lighting/Flashing Type



AC Power NPN Type



· AC Power Lighting/Flashing Type



LME-S/Q Lead-wire Color Table

	LED Unit Color	Lead Wire Color
S1	Red, Amber, Green	Red, Orange, Green
S4	Red, Green, Blue	Red, Green, Blue
S 7	Amber, Green, Blue	Orange, Green, Blue
Q1	Red, Amber, Green, Blue	Red, Orange, Green, Blue
Q2	Red, Amber, Green, Clear/White	Red, Orange, Green, White
Q4	Amber, Green, Blue, Clear/White	Orange, Green, Blue, White

Signal Line voltage and current per LED Module

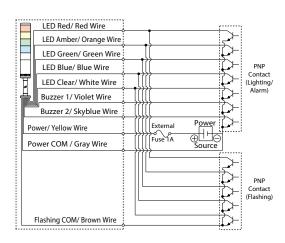
organia zania vortage arra carrente per 220 modalie									
	6	LE	D	Alarm					
Rated Voltage	Signal Line Voltage	Signal Lin	e Current	Signal Line	Inrush Current				
Voltage	voltage	R, Y	G, B, C	Čurrent					
DC 24V	DC 24V			40mA	250mA				
AC 100V			20mA						
AC 120V		50mA							
AC 200V	DC 24V	SUITA			250IIIA				
AC 220V									
AC 230V									

Lead-wire color coordination table

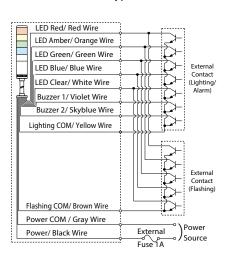
Lead Wife Color Coordination table						
LED Unit Color	Lead Wire Color					
Red	Red					
Amber	Orange					
Green	Green					
Blue	Blue					
Clear/White	White					

Alarm Sounds	Lead Wire Color
Buzzer 1	Purple
Buzzer 2	Skyblue

• DC 24V NPN FB Type



AC Power NPN FB Type







Versatile, cost and energy efficient LED Signal Tower for every need.



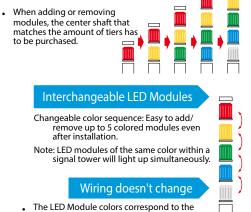


FEATURES

- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Pole-mount installation.
- Interchangeable Modules need no re-wiring, even after installation.
- Main body is constructed of ABS resin with superior resistance to impact and heat.
- Lens is made of superior impact resistant and light translucent AS resin.
- · Available colors are in Red, Amber, Green, Blue, and Clear/White.
- Has the CE mark and conforms to the requirements for the EC directive.
- Is a UL Recognized Component (File No. E215660)
 AVAILABLE BY SPECIAL ORDER
- Model LMS-U: Silver Color Body (FB060 type).



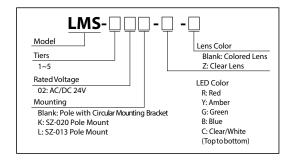
When ordering the clear-lens Signal Tower type, be sure to add "-Z" at the end of the part number when ordering.



wiring, so re-wiring is not necessary.

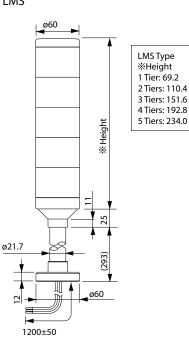
Easy to add and remove

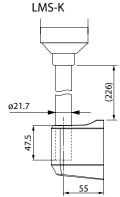
How to Order

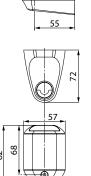


Dimensions (Unit: mm)

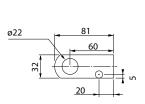








Standard Mounting Bracket



(10)

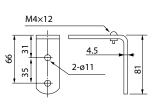
LMS-L

ø21.7

M22×P1.5

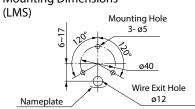
(0~16)

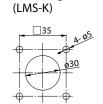








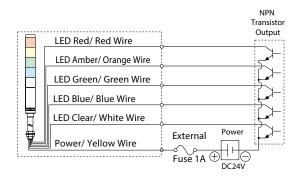




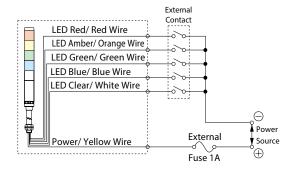
Mounting Dimensions

Wiring

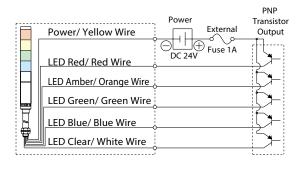
DC 24V NPN Type



• AC/DC 24V Lighting Type



• DC 24V NPN FB Type

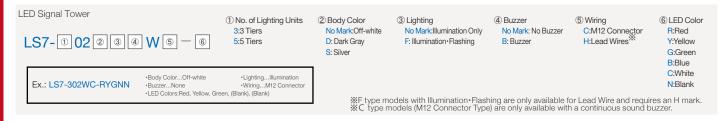


Stack			Power	Mass			
Number	Number Number	Voltage	Consumption	LMS	LMS-L	LMS-K	
1 Tier	LMS-102		1.2W	290g	620g	420g	
2 Tiers	LMS-202		2.4W	340g	670g	480g	
3 Tiers	LMS-302	AC/DC 24V	2.8W	390g	720g	540g	
4 Tiers	LMS-402		3.2W	440g	770g	600g	
5 Tiers	LMS-502		3.6W	490g	820g	660g	



New concept! Smart & smooth signal light body which improves harmony with equipment.

How to Order



	Number of						Operating			Ma	ss:	
Model	Lighting	Rated	Mounting	Rated Current			Operating Temperature	Protection	Lead-wire Type (H)		M12 Connector Type (C)	
Woder	Units	Voltage	Mounting	Consumption	Rated Current	Pressure	Range	Rating	Illumination	Illumination/Flash/	Illumination	1 Alarm (B)
									(No Mark)	2 Alarms (FB)	(No Mark)	
LS7-302	3 Tiers	DC 24V	Direct (Indoors	7/IV I I Green Riue I Riue I ' I		Illumination Type: IP65*	280g	370g	260g	320g		
LS7-502	5 Tiers	(±10%)	Only)	Green, Blue, Clear/White 30mA Alarm 40mA	Clear/White 40mA Alarm 55mA	Buzzer2 ab. 85dB Lead-wire Type (Intermittent Beep2) M12 Connector Type (None)	85% RH)	Buzzer Type: IP54	±10%	±10%	±10%	±10%

^{*} IP67 available by special order







By changing the surface of the body into a smoother form, the adhesion of water and dust is reduced. Also, the structure does not have screws, shafts, etc., exposed, which gives comfort for applications in the lithium ion battery manufacturing and food processing industries. And, with the outer lens structure, the risk of environmental stress cracks due to oil mist is reduced. The lens cover is made of shock-resistant polycarbonate.

A sound heard throughout various environments

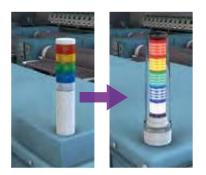
In addition to the existing lead wire, M12 connector quick disconnect is also available. Moreover, when moving to carry and to go out of the device, it is possible to detach it easily with Speaker Horn (Alarm Type)

the M12 connector.

Frequency graph of a metal-working shop sound mixed with buzzer2 alarm. (Inter-corporate Measurement)

* Buzzer1 (H type or C type) is measured at 2000Hz.





Easy attachment, no need for Relay Box

In addition to the conventional three-bolt installation, a two-bolt installation from the upper mount has been added to help make a smoother installation. Therefore, by using the mount as a relay box, it reduces the manufacturing cost for an extra relay box, which used to be a necessity up until now.

Fixed Mounting Style





M12 Connector Wiring & Tiered Construction

The stackable design and M12 connector quick disconnect (Cable Sold Separate) can drastically reduce labor and time. Moreover, the disconnection and reconnection of the body when removing it to relocate a machine has become smoother.

Stackable Construction



High-contrast Visibility

With the adoption of an inner lens, the LED emits a more efficient light. Moreso, the contrast is increased when the Signal Tower lights up or flashes, with a distinguishable signal color which remarkably improves visibility.

Remarkable display in ANY environment

The LS7 has passed various tests for water resistance, dust, temperature, and variable vibration frequency tests, etc., so that it can endure various environments.

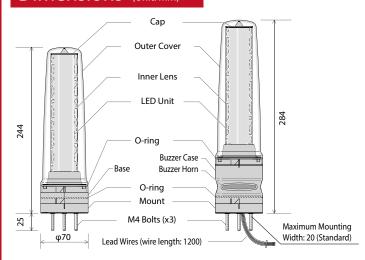


All-plastic Bracket

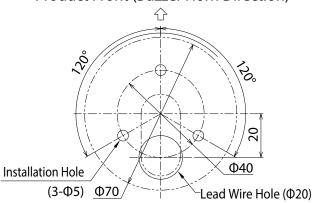
Like the body, the smooth-shaped platform bracket won't collect water or dust. Since no metal parts like screws and shafts are exposed, worries of food tampering can be put to rest in the food process lines.



Dimensions (Unit: mm)



Product Front (Buzzer Horn Direction)



Optional Parts

Like the body, the smooth-shaped platform bracket won't collect water or dust. Since no metal parts like screws and shafts are exposed, worries of food contamination can be put to rest in food processing.

Platform Bracket SZ-100



Wall Mounting Bracket SZ-110



Multi-mount Bracket SZ-130



Multi-mount Bracket SZ-130 Installation Dimiensions

Front (Audible Alarm Opening) Nameplate Position (No Alarm) Installation Hole $(4-\varphi 4.2)$ Installation Hole Nameplate Position (With Alarm) Wiring Hole (φ22)

M12 Connector & Cable

Manufactured by the OMRON Corp.)

SZ-120-02 Cable Length 2 m (XS2F-D821-DH0-R) SZ-120-05 Cable Length 5 m (XS2F-D821-GH0-R)

SZ-120-10 Cable Length 10m (XS2F-D821-JH0-R)

*Only for connecting to the LS7.



Outer Cover for LS7*

Material: Polycarbonate



Replacement Parts

O-ring for LS7

Material: Silicone

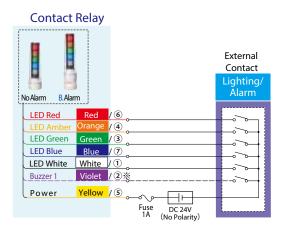


Mount Cover for LS7 (Accessory)

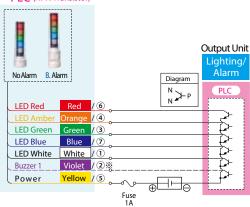
Material: Silicone



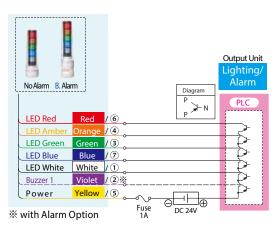
Wiring

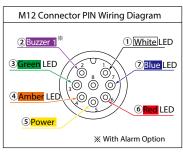


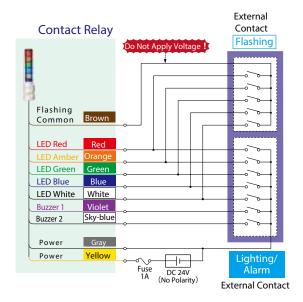




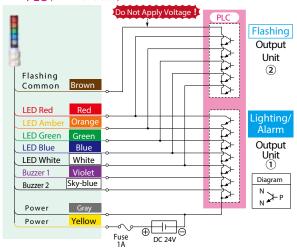
PLC (PNP Transistor)



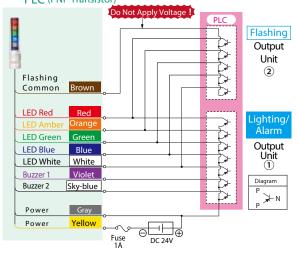




PLC (NPN Transistor)



PLC (PNP Transistor)



Note: When connecting the PLC outputs for illumination and flashing functions, the wiring (Common Wires) has to be separate between the flashing and non-flashing circuits.

PATLITE's LU5 & LU7 Series signal towers deliver the advantages of superior LED technology, innovative design, and the convenience of modular assembly with only 9 basic modular components to meet just about every indicating need.



Ultra Bright LEDs combined with an Innovative Prism Lens Design

Allows the light emitted from the signal tower to be seen from greater distances. This also allows for use of a smaller diameter light, reducing the cost of the light tower.



Color-coordinated & Spring-loaded Terminal Block

Makes wiring easy and more reliable compared to screw-type connections. Each color corresponds to the color of the LED module to be used.



Wiring Terminals

Two user-selectable Alarms Integrated in the Base Module

Allows sound to enhance the critical nature of a visual signal, bringing more attention to certain conditions. Also, since the modules are built into the base, up to 5 LED modules can be used on the light tower.



Delivers Sounds up to 90dB (at 1 m)

Alarm can be easily heard over ambient noise.

Modular Design

Makes it easy to configure and assemble a light tower. Modules can be put away before shipping the machine, reducing shipping and crate costs.



Modular Construction

O-rings

Seal out liquids so that the tower achieves an IP65 rating allowing the tower to be used in wet conditions.



IP65 Protection

IP65 & IP66 with Optional Cable Gland

The O-rings seal the tower from liquids so that an IP65 rating can be achieved to allow the tower to be used in wet environments. Adding a Cable Gland (user supplied) the tower's IP rating is increased to IP66.











2 Alarm Sounds (FB Type)

IP65

Ø70

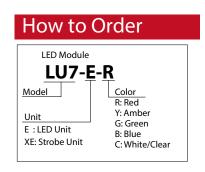
NPN/PNP
Open-collector

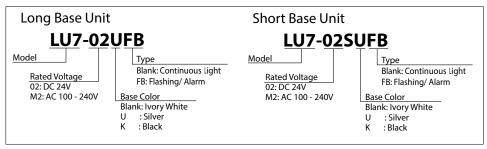
Versatile modular Signal Tower featuring easy assembly and wiring designed for every need.

FEATURES

- · PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Two built-in alarms (FB type)
- Adjustable volume of up to 90dB (at 1m).
- Direct mount installation is standard; pole-mount is available with the optional mounting pole.
- Color-coordinated Terminal block corresponding to the lens colors for quick wiring and verification.
- Interchangeable LED Modules requires no re-wiring, even after installation.
- Lens is made of superior impact and heat resistant polycarbonate resin for superior durability and light transmission.
- Available Module Colors are in Red, Amber, Green, Blue, and Clear/White.
- Available Base colors are in Black, Silver and Ivory White.
- Conforms to the CE requirements (for 24V type).
- Is a UL Recognized Component (File No. E215660).
- Product Shipped in a modular style for customer's customized assembly.







Specifications (Base)

LU7 Base Units

Model	LU7-02S LU7-02 LU7-02FB L		LU7-02M2	LU7-02M2FB		Unit Color Variation				
Rated Voltage		DC	24V		AC 100	to 240V (50/	(60Hz)	Short Body		
Operating Voltage Range		DC 21.	6 - 26.4V		AC 90	to 250V (50/	60Hz)	Ivory White	Silver	Black
Alarm	_	_	Buzzer 1*	Buzzer 2**	_	Buzzer 1* Buzzer 2**				
Current Consumption	_	-	50±10mA	24±10mA	_	50±10mA	24±10mA	100	100	
Power Consumption	_		1.2±0.25W	0.58±0.25W	_	1.8±0.25W	1.3±0.25W	-		
Sound Level	_		Max: 90±5dB (at 1m) Min: 70dB or less (at 1m)		_	Max: 90±5dB (at 1m) Min: 70dB or less (at 1m)		LU7-02S	LU7-02SU	LU7-02SK
Souria Level									Standard Body	
Flash Cycle	_	_	60±12 flashe	es per minute	_	60±12 flashes per minute				
Operating Temperature Range		-30°C 1	to +60°C		-25°C to +55°C					
Mounting Direction		Upright, Indoor Only							110	
Protection Rating	IP65 (IP66 with Cable Gland***)								- 111	
Mass (±10%)	150g	250g	28	30g	310g	340g		Amount		
Open Collector	PNP/NPN				NPN					
*Buzzer 1: Continuous **Buzzer 2: Intermittent ***Cable Gland to be supplied by user							LU7-02/M2	LU7-02U/M2U	LU7-02K/M2K	

Specifications (Module)

LU7 LED Units*	1					
Model	LU7-E-R	LU7-E-Y	LU7-E-G	LU7-E-B	LU7-E-C	
Unit /LED Color	LED Unit Red	LED Unit Amber	LED Unit Green	LED Unit Blue	LED Unit White/Clear	
Rated Voltage	DC 24V					
Operating Voltage Range		DC 21.6 - 26.4V				
Current/Power Consumption	52mA/1.25W 42mA/1.0W					
Operating Temperature Range	-30°C to +60°C					
Mass (±10%)	60g					

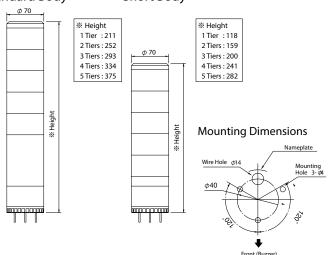
^{*}Operates on LU7-02, LU7-02FB, LU7-M2 and LU7-M2FB Base Units

LU7 LED Strobe Units**	THE RESERVE	0.70		E		
Model	LU7-XE-R	LU7-XE-Y	LU7-XE-G	LU7-XE-B	LU7-XE-C	
Unit Color	LED Unit Red	LED Unit Amber	LED Unit Green	LED Unit Blue	LED Unit Clear/White	
Rated Voltage		DC 24V				
Current Consumption	290	mA	140mA	270mA	280mA	
Mass (±10%)	70g					

^{**}Operates with LU7-02, LU7-02S, and LU7-02FB bases only. When using with LU7-02FB, the module should be controlled by the continuous common wire.

Dimensions (Unit: mm)

LU7 LU7-02S Standard Body Short Body



External Contact Capacity

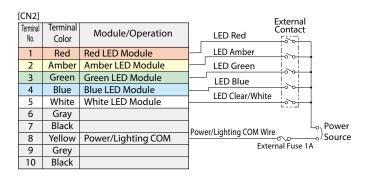
Wiring

Spe	ecifications	DC 24V AC 100 - 240V			
	Current	Red,Amber: 52mA			
LED Unit	Consumption	Green,Blue,White/Clear: 42mA			
(1 Unit)	Contact Capacity	ls≥100mA, Vs≥AC 35V			
	Current Consumption	50mA			
Alarm	Inrush Current	100mA			
	Contact Capacity	ls	≥100mA, Vs≥AC 35V		
Power	Current Consumption	360mA	40mA (250VAC) - 110mA (90VAC)		
Supply	Contact Capacity	Is≥500mA Vs≥AC 35V	9A (90V) - 25A (250V) Vs≥AC 250V		

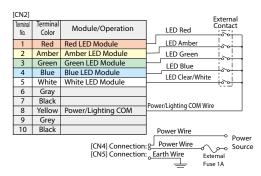
External Contact Fuse	
Voltage	Fuse Amperage Rating
All Models	250V, 1A

Wiring (cont.)

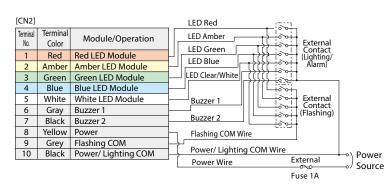
AC/DC 24V Lighting Type



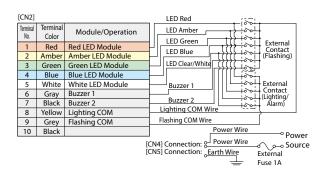
AC Power Lighting Type



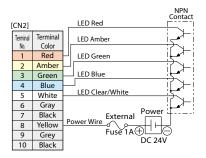
AC/DC 24V Lighting/Flashing Type



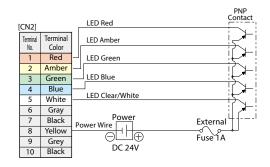
AC Power Lighting/Flashing Type



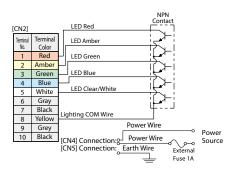
DC 24V NPN Type



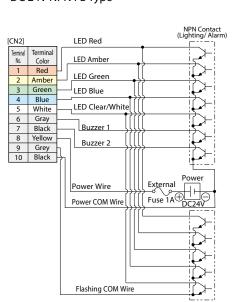
DC 24V PNP Type



AC Power NPN Type

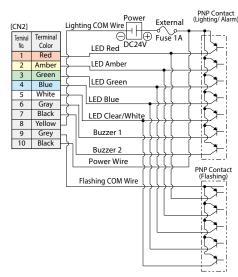


DC 24V NPN FB Type

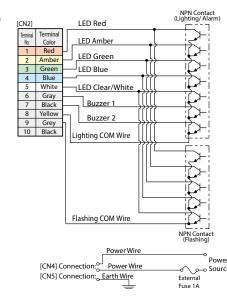


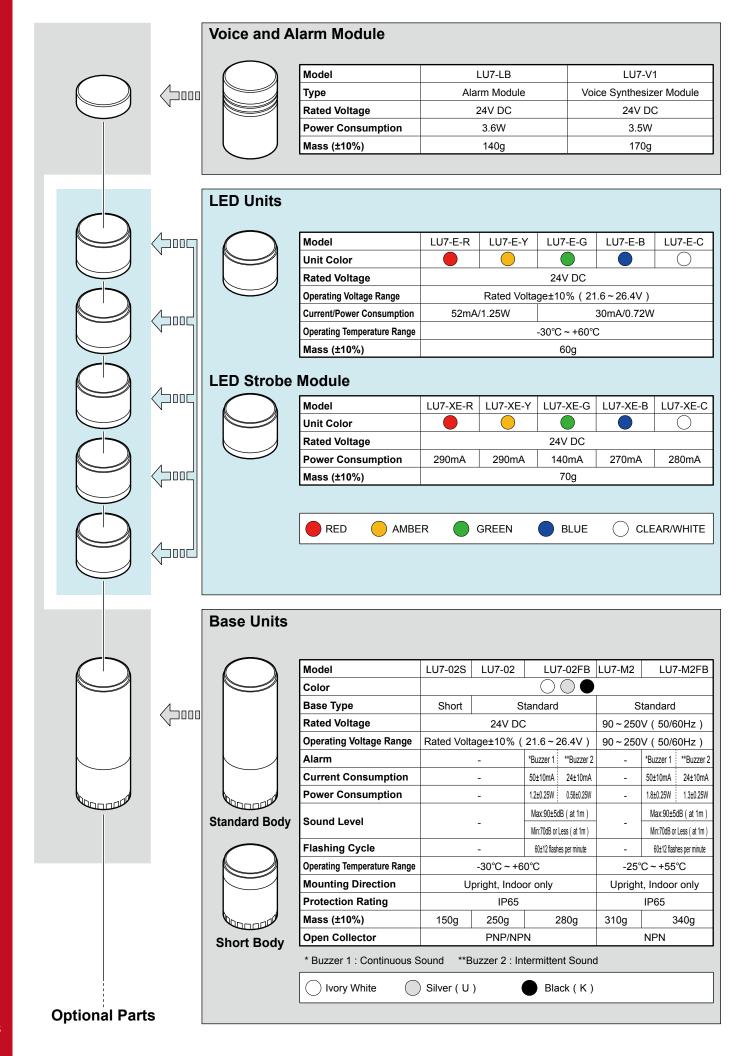
PNP Contact (Flashing)

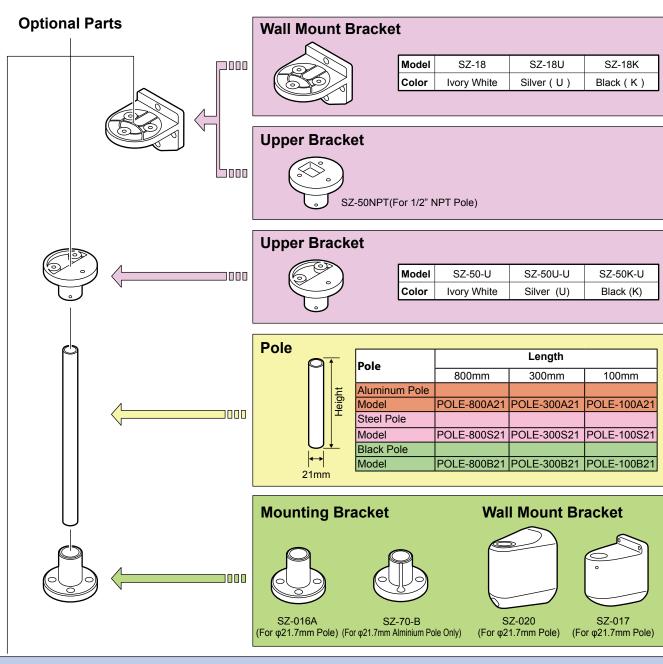
DC 24V PNP FB Type

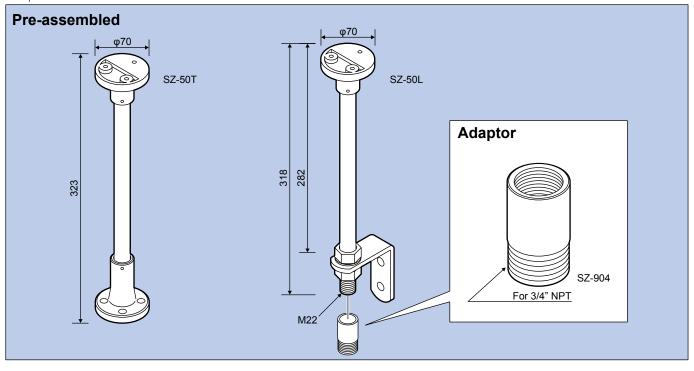


AC Power NPN FB Type









LU7-V1

Signal Tower



4 Messages (MP3)

80dB at 1m

IP65

Φ70

NPN Open-collector



Omni-directional MP3 Smart Alert Module (LU7-V1)

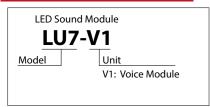
FEATURES

- Volume adjustable from 9dB to 80dB at 1m (depends on type of sound or message)
- High quality MP3 supported voice and sound module replays up to 4 alarms or messages with 32 seconds of total program time
- Playback sound selected by the position of internal jumper pin
- · MP3 data is recorded before shipment of order
- · CE compliant

• Can be used with LU7-02(FB), LU7-M2(FB), and LU7-025(B). • Easily mounted at the top of the light stack.

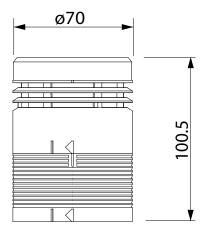
Diagram 1. Sound Direction

How to Order



Selectable playback sound The jumper position determines the sound

Dimensions (Unit: mm)



Model	Туре	Rated Voltage	Rated Current	Power Consumption	Mass
LU7-V1	MP3 Sound Alarm	DC 24V	-	3.5W	170g

LU7-XE





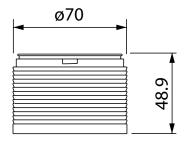


Stackable LED strobe module saves energy and requires low maintenance.

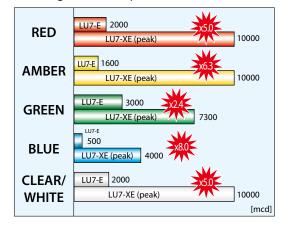
FEATURES

- Application* can be used with the LU7 Series Signal Tower.
- A visually stunning double-flash light pattern for immediate attention.
- Incorporates super-bright LED technology for enhanced visibility.
- Easily stackable and interchangeable, before or after installation.
- Has the CE mark and conforms to the requirements for the EC directive.
- Is UL Listed (File No. E215660) for use with LU7-02 and LU7-02FB.
- (1) For use with LU7-02, LU7-02S, and LU7-02FB bases only.
 Note: When using with LU7-02FB, the module should be controlled by the continuous common wire.

Dimensions (Unit: mm)



Brightness Comparison



LHE-A

ALARM

Signal Tower



LED



2 Alarm Sounds (FB Type)

90_{dB} at 1m (FB Type)

IP65 (FB Type:IP54)

Φ70

NPN Open-collector





The Signal Tower with a water resistant design for wet environments.



PATLITE's original dual reflection system with its exclusive hybrid prism-cut lens and five color LED modules, creates a bright and evenly distributed illumination.

• The LED Module colors correspond to the wiring, so re-wiring is not

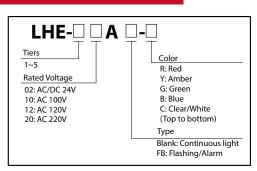
necessary.

FEATURES

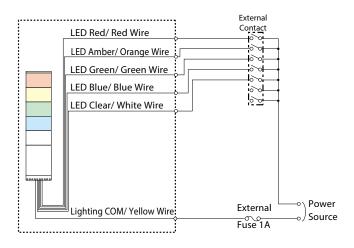
- · Original LED reflection system to improve brightness and provide maintenance-free operation.
- Two built-in alarms (FB type)
- · Adjustable volume of up to 90dB (at 1m).
- Direct mount installation is standard; pole-mount is available with the optional mounting pole.
- Interchangeable Modules need no re-wiring, even after installation.
- Lens is made of superior impact and heat resistant AS resin for superior durability and light transmission
- Available colors are in Red, Amber, Green, Blue, and Clear/White.
- Has the CE mark and conforms to the requirements for the EC directive. (for 24V type)
- Is a UL Recognized Component (File No. E215660, for 24V type only).

• When adding or removing modules, the center shaft that matches the amount of tiers has to be purchased. • Changeable color sequence: Easy to add/remove up to 5 colored modules even after installation. Note: LED modules of the same color within a signal tower will light up simultaneously. Wiring doesn' t cha

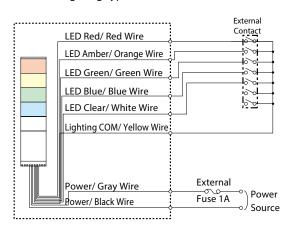
How to Order



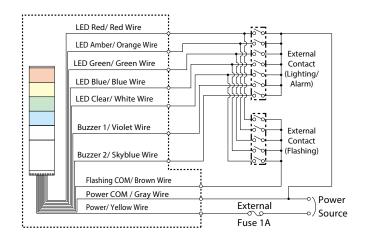
AC/DC 24V Lighting Type



AC Power Lighting Type



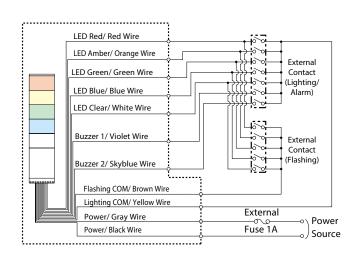
AC/DC 24V Lighting/Flashing Type



Signal Line voltage and current per LED Module

		6	LED		Alarm	
	Rated Voltage	Signal Line Voltage	Signal Line Current		Signal Line	Inrush
-		voltage	R, Y	G, C, B	Current	Current
	AC/DC 24V	AC/DC 24V	50mA	40mA		
	AC 100V				40mA	150mA
	AC 120V	DC 24V	50mA	40mA	40IIIA	ISUIIIA
	AC 220V					

AC Power Lighting/Flashing Type



Lead-wire color coordination table

LED Unit Color	Lead Wire Color
Red	Red
Amber	Orange
Green	Green
Blue	Blue
Clear/White	White

Alarm Sounds	Lead Wire Color
Buzzer 1	Purple
Buzzer 2	Skyblue

Dimensions (Unit: mm) "Super Bright" LED provides the highest level of visibility. ø70 LHE Type Height 1 Tier: 212 2 Tiers: 253 RED 3 Tiers: 294 4 Tiers: 335 5 Tiers: 376 **Mounting Dimensions AMBER** Height Wire Entry Hole ø14 **Mounting Hole** 3- ø5 ø40 **GREEN** Nameplate Audible **BLUE** Alarm 3-M4 Maximum Panel Thickness: 10

CLEAR/WHITE

Stack Number	Model	Rated Voltage	Power Consumption	Mass
	LHE -102A/AFB	AC/DC 24V	2.2W	400g
1 Tier	LHE -110A/AFB	AC 100V		
l Hei	LHE -112A/AFB	AC 120V	4.7W	650g
	LHE -120A/AFB	AC 220V		
	LHE -202A/AFB	AC/DC 24V	3.4W	450g
2 Tiers	LHE -210A/AFB	AC 100V		
2 11613	LHE -212A/AFB	AC 120V	6.4W	700g
	LHE -220A/AFB	AC 220V		
	LHE -302A/AFB	AC/DC 24V	4.4W	500g
3 Tiers	LHE -310A/AFB	AC 100V		
3 11613	LHE -312A/AFB	AC 120V	7.9W	750g
	LHE -320A/AFB	AC 220V		
	LHE -402A/AFB	AC/DC 24V	5.4W	550g
4 Tiers	LHE -410A/AFB	AC 100V		
4 11613	LHE -412A/AFB	AC 120V	9.4W	800g
	LHE -420A/AFB	AC 220V		
	LHE -502A/AFB	AC/DC 24V	6.4W	600g
5 Tiers	LHE -510A/AFB	AC 100V		
3 Hers	LHE -512A/AFB	AC 120V	10.9W	850g
	LHE -520A/AFB	AC 220V		

LGE







Large Signal Tower featuring enhanced visibility and downward illumination, designed for large machines.

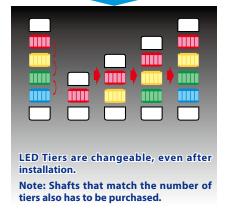


PATLITE's triple-reflection system creates an even brighter and distinctive illumination with its exclusive hybrid prism-cut lens for 5 color LED module variations.

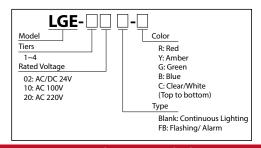
Interchangeable LED Modules

FEATURES

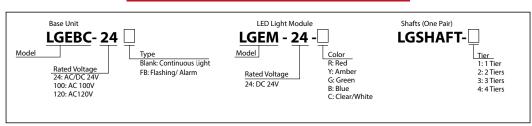
- PATLITE's large prism cut lens to enhance illumination in the downward direction. (Lens Size: ϕ 100mm x 60mm high)
- The FB type offers a flashing and continuous lighting pattern.
- A built-in buzzer (FB type) has a sound of up to 85dB (at 1m).
- Direct mount Installation.
- Interchangeable Modules need no re-wiring, even after installation.
- Lens is made of superior impact and heat resistant polycarbonate resin for superior durability and illumination.
- Both NPN and PNP compatible for the DC24V type; NPN compatible with the AC 100/220V type only.
 - Available Colors are in Red, Amber, Green, Blue, and Clear/White.
 - Has the CE mark and conforms to the requirements for the EC directive. (for 24V type)



How to Order (Pre-assembled)



How to Order (Module)







Amber



Green



Blue



Clear/White

Specifications (Pre-assembled)

(No Alarm)

		(**************************************			
Light System	Model	Rated Voltage	Power Consumption	Mass	
	LGE-102	AC/DC 24V	2.0W	0.4kg	
1 Tier	LGE-110	AC 100V	5.2W	1 01/0	
	LGE-120	AC 220V	3.200	1.0kg	
	LGE-202	AC/DC 24V	4.0W	0.6kg	
2 Tiers	LGE-210	AC 100V	7.7W	1 21.0	
	LGE-220	AC 220V	7.7 VV	1.2kg	
	LGE-302	AC/DC 24V	6.0W	0.8kg	
3 Tiers	LGE-310	AC 100V	10.2W	1 4140	
	LGE-320	AC 220V	10.200	1.4kg	
	LGE-402	AC/DC 24V	8.0W	0.9kg	
4 Tiers	LGE-410	AC 100V	12.7W	1 Eka	
	LGE-420	AC 220V	12./ ٧٧	1.5kg	

Alarm Type (Intermittent Rate: ab. 60 beeps per min)

Light System	Model	Rated Voltage	Power Consumption	Mass	
	LGE-102FB	AC/DC 24V	2.5W	0.4kg	
1 Tier	LGE-110FB	AC 100V	5.7W	1 Oka	
	LGE-120FB	AC 220V	3.7 VV	1.0kg	
	LGE-202FB	AC/DC 24V	4.5W	0.6kg	
2 Tiers	LGE-210FB	AC 100V	8.2W	1 21.0	
	LGE-220FB	AC 220V	0.200	1.2kg	
	LGE-302FB	AC/DC 24V	6.5W	0.8kg	
3 Tiers	LGE-310FB	AC 100V	10.7W	1 41.00	
	LGE-320FB	AC 220V	10.700	1.4kg	
	LGE-402FB	AC/DC 24V	8.5W	0.9kg	
4 Tiers	LGE-410FB	AC 100V	13.2W	1 Eka	
	LGE-420FB	AC 220V	13.200	1.5kg	

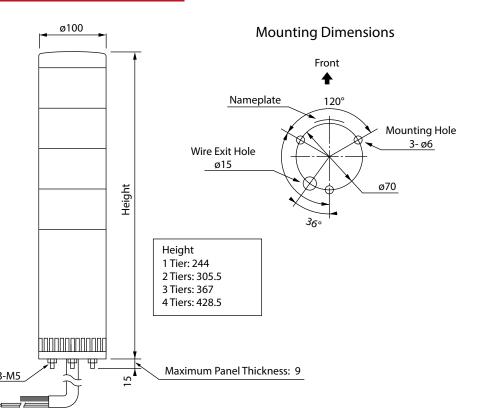
Specifications (Modules)

Light Unit	Color	Rated Voltage	Power Consumption
LGEM24-R	RED		
LGEM24-Y	AMBER		
LGEM24-G	GREEN	AC/DC 24V	2.0W
LGEM24-B	BLUE		
LGEM24-C	CLEAR		

Power Unit	Rated Voltage	Operation
LGEBC-100	AC 100V	
LGEBC-120	AC 120V	Continuous
LGEBC-24	AC/DC 24V	
LGEBC-100FB	AC 100V	Combinuous
LGEBC-120FB	AC 120V	Continuous/ Flashing/Alarm
LGEBC-24FB	AC/DC 24V	l lastillig/Alaitii

Part No.	Light Units per Base
LGSHAFT-1	1
LGSHAFT-2	2
LGSHAFT-3	3
LGSHAFT-3	3
LGSHAFT-4	4

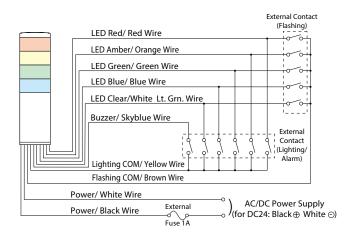
Dimensions (Unit: mm)







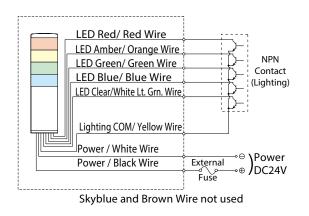




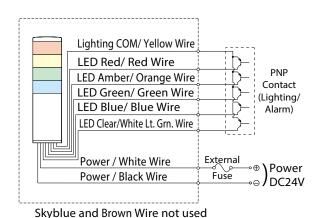
Signal Line vo	oltage and	current pe	er LEC) Module

orginal zine voltage and carrent per zzo module					
				Alar	m
Model	Rated Voltage	Signal Line Voltage	Signal Line Current	Signal Line Current	Inrush Current
LGE-A	AC/DC 24V	AC/DC 24V			
LGE-A	AC 100	DC 24V	90mA	20mA	250mA
LGE-A	AC 220V	DC 24V			

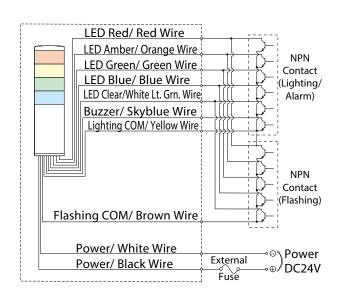
DC 24V NPN Type



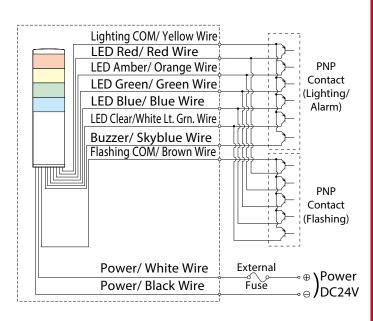
DC 24V PNP Type



DC 24V NPN FB Type



DC 24V PNP FB Type



WE/WEP





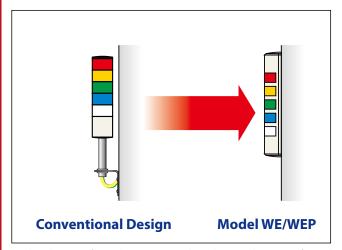


Ultra slim half-moon shaped Signal Tower offers seamless integration with most equipment.

FEATURES

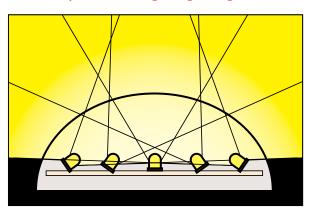
- Clear vertical-cut lens for enhanced illumination over a wide perspective.
- Has an optional built-in audible alarm (FB type) with an output of 90dB (at 1m).
- Installation can be vertical or horizontal.
- Two body color selections of chrome plated or ivory white.
- · Lens made of superior impact and heat resistant polycarbonate resin for superior durability and enhanced illumination.
- Both NPN and PNP Compatible for direct connection to a PLC (24V DC ONLY)
- Two lighting patterns of flashing and continuous lighting.
- Dust and water resistance rating of IP65 (except for FB type: IP54).
- · Available colors are in Red, Amber, Green, Blue, and Clear/White.
- Has the CE mark and conforms to the requirements for the EC directive.
- Is a UL Recognized Component (File No. E215660).

37.5mm Super-thin Design!

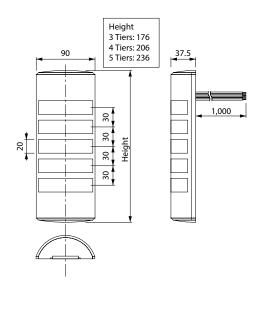


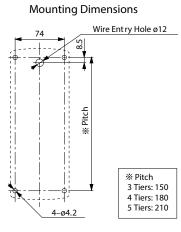
Patlite has perfected a 37.5mm-thin design that significantly enhances integration with the equipment as a built-in signal system.

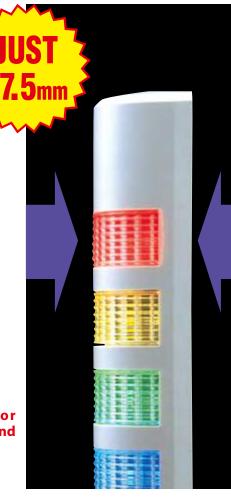
Exclusively New LED Lighting Design



Patlite has created a revolutionary patented lighting design in which multiple LEDs project light across a broad peripheral area, ensuring equal intensity at the sides as well as the front. This design, with its side-projection technology, is a unique achievement in signal light design.



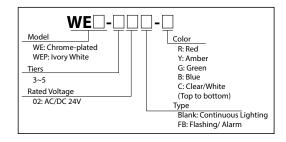






IP65 construction is safe for installation in damp locations and dusty factory environments.

How to Order



Specifications

Stack Number	Model	Rated Voltage	Power Consumption	Mass
3 Tiers	WE(P)-302		1.7W	260g
3 Hers	WE(P)-302FB		2.7W	300g
4 Tiers	WE(P)-402	AC/DC 24V	2.0W	310g
4 Hers	WE(P)-402FB		3.2W	350g
5 Tiers	WE(P)-502		2.7W	310g
3 Hers	WE(P)-502FB		3.7W	350g

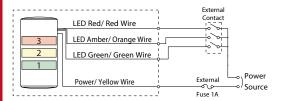
Alarm Sounds	Lead Wire Color
Buzzer 1	Purple
Buzzer 2	Skyblue

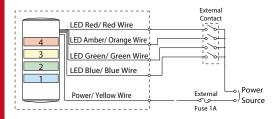
Signal Line voltage and current per LED Module

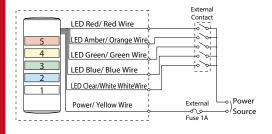
		6		D	Alar	
Model	Rated Voltage	Signal Line Voltage	Signal Line Current		Signal Line	Inrush
	voltage	voltage	R, Y	G, B, C	Current	Current
WE/WEP	AC/DC 24V	AC/DC 24V	30mA	25mA	40mA	250mA

Wiring

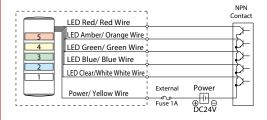
AC/DC 24V Lighting Type



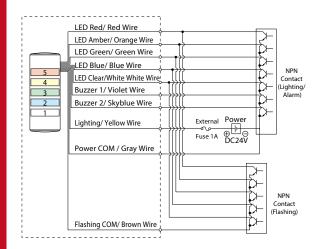




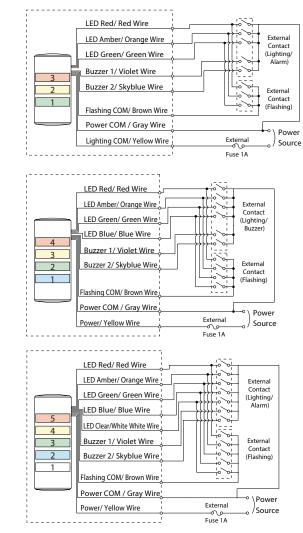
DC 24V NPN Type



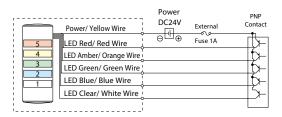
DC 24V NPN FB Type



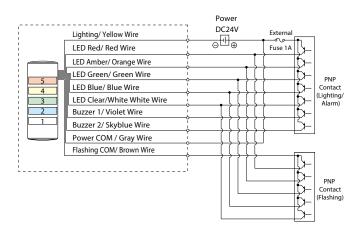
AC/DC 24V Lighting/Flashing Type



DC 24V PNP Type



DC 24V PNP FB Type







Exclusive wall-mount design saves space and enhances its integral appearance.





Built-in audible alarm (FB type)

FEATURES

- Volume output of up to 90dB (at 1m).
- Easy vertical or horizontal installation when used with mounting brackets.
- Interchangeable Modules need no re-wiring, even after installation.
- Install as an option with a compatible household switch box (JISC 8336 with 82.5m pitch).
- · Main body is made of ABS resin.
- · Lens is made with superior impact and heat resistant polycarbonate resin for superior durability and illumination.
- Compatible for use with NPN or PNP controlled inputs (24V DC type ONLY).
- · Available Colors are in Red, Amber, Green, Blue, and Clear/White.
- Has the CE mark and conforms to the requirements for the EC directive.
- Is a UL Recognized Component (File No. E215660).

AVAILABLE BY SPECIAL ORDER

- 1 Tier Type
- · Individual module control for single color

LED Tiers are changeable, even after installation.

Note: Shafts that match the number of tiers also has to be purchased.

5 "Super Bright" LED Colors to choose from!

Red

Ш

Amber

Green

Blue

Clear/White



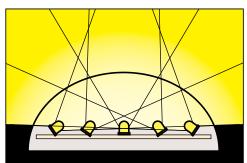






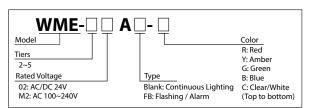


Exclusively New LED Lighting Design



Patlite has created a revolutionary patented lighting design in which multiple LEDs project light across a broad peripheral area, ensuring equal intensity at the sides as well as the front. This design, with its side-projection technology, is a unique achievement in signal light design.

How to Order



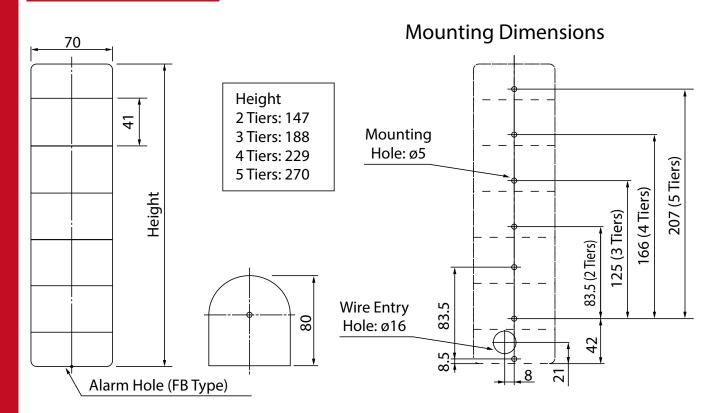
Specifications

Stack Number	Model	Rated Voltage	Power Consumption	Mass
2 Tiers	WME-202A	AC/DC 24V	2.7W	390g
2 Hers	WME-2M2A	AC 100 - 240V	4.6W	460g
3 Tiers	WME-302A	AC/DC 24V	3.3W	470g
5 Hers	WME-3M2A	AC 100 - 240V	6.0W	540kg
4 Tiers	WME-402A	AC/DC 24V	4.4W	550g
4 Hers	WME-4M2A	AC 100 - 240V	8.0W	620g
5 Tiers	WME-502A	AC/DC 24V	5.5W	630g
3 Hers	WME-5M2A	AC 100 - 240V	10.0W	700g

Signal Line voltage and current per LED Module

		LED		Alar	m	
Model	Rated Voltage	Signal Line Voltage	Signal Lin	e Current	Signal Line	Inrush
		Voltage		G, B, C	Čurrent	Current
WME-A	AC/DC 24V	AC/DC 24V	35mA	50mA	40mA	250mA
VVIVIE-A	AC 100V - 240V	DC 24V	SOMA	JUITA	40mA	250MA

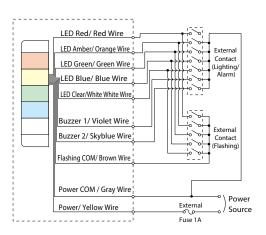
Dimensions (Unit: mm)



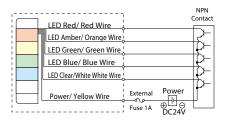
- The LED Colors are stackable, even after installation.
 However, the applicable Center Shaft and backplate needs to be purchased.
- Install with the alarm in the downward direction in order to preserve the IP54 rating.

Wiring

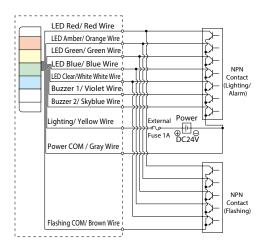
AC/DC 24V Lighting/Flashing Type



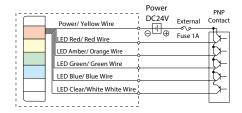
DC 24V NPN Type



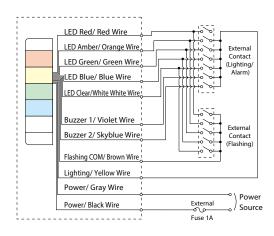
DC 24V NPN FB Type



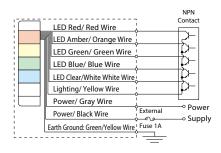
DC 24V PNP Type



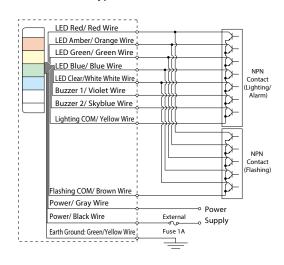
AC Power Lighting/Flashing Type



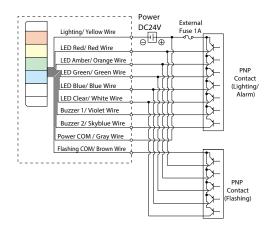
AC Power NPN Type



AC Power NPN FB Type



DC 24V PNP FB Type

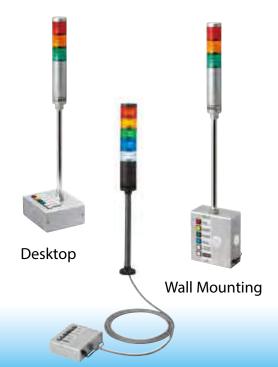


WSST

Manual Control Box







Signal Towers, Cables and poles sold separately

PATLITE's WSST Control Box offers excellent all-inone functionality to meet the growing needs of the manufacturing sector and beyond.

APPLICATIONS

- · Workstations and work cells
- Real-time line status indication for managers and line supervisors
- Lean manufacturing, safety and security applications
- · Manual assembly operations
- · Retail check-out stations
- · Call centers

FEATURES

- Universal manual control box for PATLITE LED Signal Towers.
- Sturdy metal construction with 6 color-coordinated push buttons.
- Recommended Signal Towers to choose from are ME; MES; LCE; LE; LES; LME-L; and SZ-60L & SZ-50L Pole Kits
- Install up to 5 Tiers (Red, Amber, Green, Blue and Clear/White).
- Add optional sound alarm or flash functionality (must purchase FB type Signal Towers).
- Various mounting methods include Wall or Desktop installations or as Remote. Recommended Signal Towers for Remote applications (10 ft. cable included) are the LCE-U (with "L" bracket) or LME-U (with flange-mount bracket) Signal Towers.
- Power Supply is included (WSST-KIT).

How to Order

WSST-KIT

Package Description

KIT: Complete Kit includes

- Control Box
- Cable Gland
- 16mm Plug (1pc)
- 22mm Plug (2 pcs)
- Instruction Manual
- Power Supply

CB: Complete Kit (excluding Power Supply)

PS: Power Supply Only

Rated	Operating	Operating Teperature	Mounting	Mass
Voltage	Voltage	Range	Location	(±10%)
DC 24V (Non-polar)	DC 21.6 -26.4V	0°C- +40°C (RH less than 90%)	Indoor Only	







The HSST includes a 3-tiered LED Signal Tower kit as a low- cost complete turn-key solution for manual assembly factories where lean manufacturing practices are dependent upon the overall operation efficiency.

APPLICATIONS

- · Assembly workstations
- · Safety and security applications
- Call centers
- Retail check stands
- Hospitals
- · Airports

FEATURES

- Complete kit includes a 50mm diameter red, amber, green 3-tier LED Signal Tower with 4-foot Cable, poles, three-button control box, AC power adaptor and mounting brackets that can fit onto standard cubicle partitions.
- AC power adapter (UL Listed) rated at 120VAC with 6 ft. cable length is included to allow easy set-up in any location.
- LED light illumination offers maintenance-free operation.
- Optional Extention Cable (Part No. DT-HSST-10) available in 10 ft. segments.
- · Mounting screws included with the three-button control box.
- Choice of 3 in. (80mm) or 12 in. (300mm) pole included in set.

How to Order

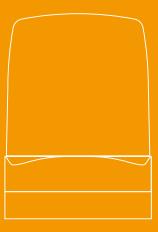
HSST-312

Package Description

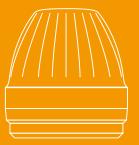
312: Complete Kit including

- 3 button Control Box
- Control Box mounting screws
- 3 tiered Signal Tower (Red, Amber, Green)
- AC 120V Power Adaptor
- 4 ft. cable for Signal Tower
- 3 " Pole (80mm)
- 12" Pole (300mm)
- Pole Mounting Brackets
- Instruction Manual

Model	Rated Voltage	Tiers	Power Supply
HSST-312	DC 24V	3 Tiers (R,Y,G)	AC120V / DC24V (Center Negative)



Signal Lights



NE-24

LED Dome Signal Light



LED

\

IP65

Φ57

NPN/PNP **Open-collector**

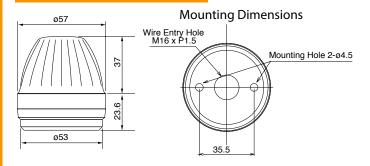


NE Series LED Dome Indicator Light; The dome-shaped globe provides increased visibility while the LEDs provide years of maintenance-free operation.

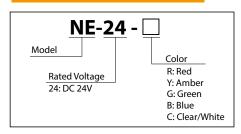
FEATURES

- Enhanced Illumination with the use of long-life, super bright LEDs.
- Low power consumption increases energy efficiency.
- High vibration-resistance and unnecessary bulb replacement makes it maintenance-free.
- · Uses a terminal block for easy wiring.
- Applications are suitable for small tooling machines, control panels, etc.
- Available colors are in Red, Amber, Green, Blue, and Clear/White.
- Has the CE mark and conforms to the requirements for the EC directive.

Dimensions (Unit: mm)



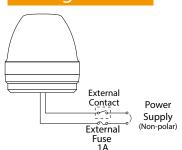
How to Order



Specifications

Model	Color	Rated Voltage	Power Consumption	Operating Temperature Range	Mass
NE-24-R	RED		0.63W		
NE-24-Y	AMBER		0.65		
NE-24-G	GREEN	DC 24V	0.56W	-30 C - +50 C	55g
NE-24-B	BLUE		0.53W		
NE-24-C	CLEAR/WHITE		0.45W		

Wirina







LED Multi-signal Light











KHE features three flashing patterns for diverse applications.

FEATURES

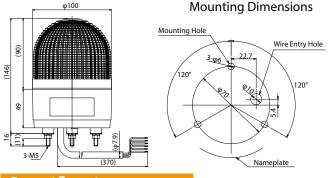
Gasket SZ-200A

- Super-bright long life LED's used for three signaling patterns that simulate rotation, strobe, and blinking.
- Enhanced Illumination with the use of long-life, super bright LEDs.
- No motor or bulb replacement makes it Maintenance-free.
- Low power consumption increases energy efficiency.
- Indoor installation can be upright, inverted or sideways; Outdoors is for upright only.
- Available colors are in Red, Amber, Green, and Blue.
- Has the CE mark and conforms to the requirements for the EC directive.
- Is UL Listed (File No. E215660).

AVAILABLE BY SPECIAL ORDER

Body Color: Silver

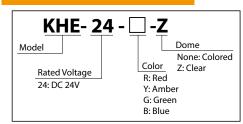
Dimensions (Unit: mm)



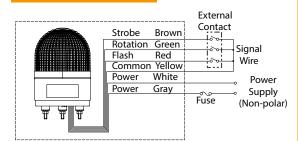
Specifications

Model	Color	Rated	Power		Flash Patte	erns	Mass
Model	Coloi	Voltage	Consumption	Flash	Rotation	Strobe	IVIASS
	RED		0.214/				
KHE-24	AMBER	DC 24V	8.2W	55 ±10%	175 ±10%	75 ±10% fps	450a
KI IL-24	GREEN] DC 244	10.1W	fps	fps	(double-flash)	430g
	BLUE		21.6W				

How to Order



Wiring



PEW-A/PES-A



Multi-speed Flashing Signal Light







1 Alarm Sound (PEW-B)

85_{dB at 1m} (PEW-B)

IP55*

Φ82

NPN Open-collector





- * PEW-A: IP54 (IP23 with side-wire exit mounting)
- * PES-A: IP55 with the optional rubber gasket SZ-210 (IP23 without SZ-210).

Dome shape LED Signal Light featuring enhanced visibility and maintenance-free operation.

FEATURES

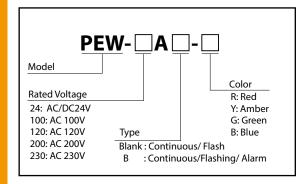
- Has maintenance-free LED's that consume nearly half the power incandescent bulb models (AC100V/200V) do.
- Newly-developed triple-reflection system for enhanced visibility and low power consumption.
- PEW-B type has a built-in adjustable audible alarm with a volume of up to 85dB (at 1m).
- Indoor installation can be upright, inverted or sideways; Outdoors is for upright only.
- The PES is rated for IP55 with the optional rubber gasket SZ-210 (IP23 without SZ-210).
- Has the CE mark and conforms to the requirements for the EC directive. (for 24V type)
- Is a UL Recognized Component (File No. E215660, for 24V, 120V, 230V types only).
- Dome is made of superior weather resistant and light translucent acrylic resin.
- Three flashing patterns of 60/120/180 fpm, switch selectable.
- The PEW is rated for IP54 (IP23 with side-wire exit mounting)
- Available colors are in Red, Amber, Green, and Blue.

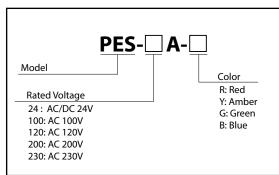
AVAILABLE BY SPECIAL ORDER

- · Body Color: Silver
- IP65: PEW type only



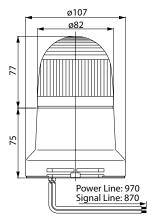


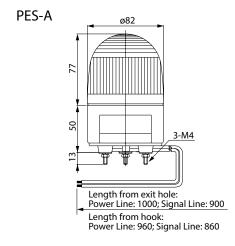


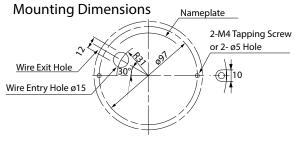


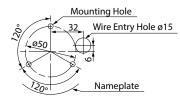
Dimensions (Unit: mm)



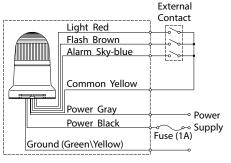


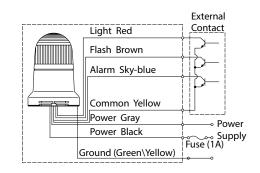






Wiring





- * All Models have the same wiring
- * Sky-blue signal wire is for buzzer type only
- * Ground wire is added for high-voltage types only

Model	Color	Rated Voltage	Power Consumption	Inrush Current	Mass
PEW-24A	R/Y		1.2W		220~
PEVV-24A	G/B	AC/DC 24V	1.5W	2.5A	320g
PEW-24AB	R/Y	AC/DC 24V	2.2W	2.5A	340g
FEW-24AB	G/B		2.5W		3409
PEW-100A	R/Y		2.8W		520g
PEW-100A	G/B	AC 100V	3.3W		320g
PEW-100AB	R/Y	AC 100V	5.3W	1.0A	540g
PEW-100AB	G/B		5.8W		340g
PEW-120A	R/Y		3.0W		520g
	G/B	AC 120V	3.5W		320g
PEW-120AB	R/Y		5.7W		540g
PEW-120AB	G/B		6.2W		340g
PEW-200A	R/Y		2.5W		520g
F LW-200A	G/B	AC 200V	3.2W		J209
PEW-200AB	R/Y	AC 200V	4.9W		540g
FEW-200AB	G/B		5.6W	0.5A	J409
PEW-230A	R/Y		3.1W	0.5A	520g
I LVV-ZJUA	G/B	AC 230V	3.8W		3209
PEW-230AB	R/Y	AC 230V	5.9W		540g
LW-230AB	G/B		6.4W		J 4 09

Model	Color	Rated Voltage	Power Consumption	Inrush Current	Mass
PES-24A	R/Y	AC/DC 24V	1.2W	2.5A	240~
PE3-24A	G/B	AC/DC 24V	1.5W	2.5A	240g
PES-100A	R/Y	AC 100V	4.2W		
PE3-100A	G/B	AC 100V	4.7W	1.0A	
PES-120A	R/Y	AC 120V	1 44W 1	1.04	
PE3-120A	G/B	AC 120V	4.9W		430g
PES-200A	R/Y	AC 200V	4.0W		4309
FE3-200A	G/B	AC 200V	4.7W	0.5A	
PES-230A	R/Y	AC 230V	4.6W	U.3A	
FE3-230A	G/B	AC 230V	5.3W		

KPE-A

Flashing/Rotating Light





Revolving Warning Light featuring maintenance-free LED's, Corrosion-proof plastic and adjustable flashing cycles.

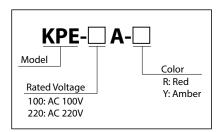
FEATURES

- · Enhanced design with special high-intensity illumination to improve light diffusion and ensure sufficient brightness, even outdoors.
- Internally adjustable flashing cycle between 50 and 200 times per minute.
- Extended long-life with LEDs so no bulb replacement is needed, perfect for "hard-to-service" locations.
- Indoor installation can be upright, inverted or sideways; Outdoors is for upright only.
- · With an electronic rotating light system, no worn-out motors to replace.
- Main body is made of special weather-resistant resin.
- Dome is made from superior weather-resistant and light translucent acrylic resin.
- Stainless mounting bolts with corrosion-proof screws.
- · Available Colors are Red and Amber.

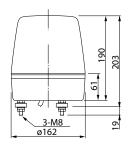
Specifications

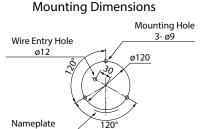
Model	Rated Voltage	Power Consumption	Flash Rate	Mass
KPE-100A	AC 100V	Continuous: 4W	50 - 200 rpm	1 []
KPE-220A	AC 220V	Flashing: 9W	60 fpm	1.5kg

How to Order

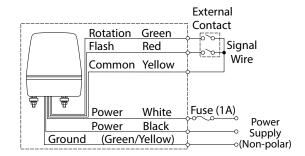


Dimensions (Unit: mm)





Wiring





PSE

LED Signal Light





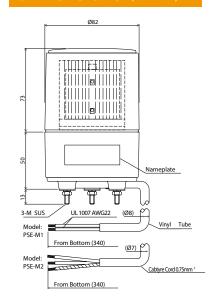
New LED flashing beacon! Can outlast a conventional Xenon lamp and is available in four LED Colors.

FEATURES

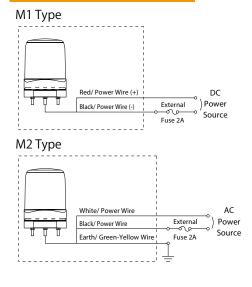
Gasket SZ-210

- Has maintenance-free LED's that consume nearly half the power incandescent bulb
- The PSE is rated for IP55 with the optional rubber gasket SZ-210 (IP23 without SZ-210).
- · Has the CE mark and conforms to the requirements for the EC directive.
- Three flashing patterns of 110 fpm (±10%).

Dimensions (Unit: mm)

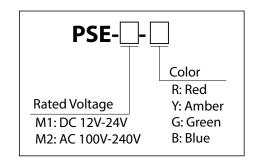


Wiring



Specifications

Model	PSE-M1	PSE-M2		
Rated Voltage	DC 12V - 24V	AC 100V-240V		
Power Consumption	3.0W	3.2W		
Maximum Operating Ambient Temperature	60°C			
Protection Rating	IP.	23		
Mounting Location	Indoor or Outdoor Use			
Flash Rate	110 ±10rpm (Triple-flash)			
Mass	0.30kg	0.35kg		



LFH

LED Signal Light





LED



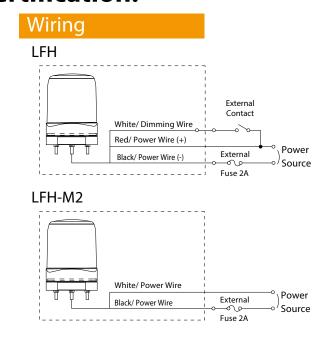
IP66

Φ100



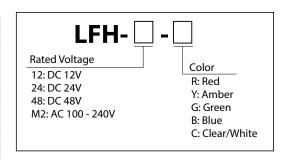
New LED flashing beacon! Available in five outdoor visible LED Colors and has UL certification.

LFH *Maximum Product Insulation Board Thickness: 7mm UL 2517 AWG20x3c From Bottom (300) LFH-M2 From Bottom (300)



Specifications

Model	LFH-12	LFH-24	LFH-48	LFH-M2
Rated Voltage	DC 12V	DC 24V	DC 48V	AC 100 - 240V
Current Consumption (max)	0.50A	0.23A	0.18A	0.12A
Operating Ambient Temperature Range	-30°C to +70°C -20°C to +60°			-20°C to +60°C
Protection Rating	IP66			
Mounting Location	Indoor or Outdoor Use			
Flash Rate	110 ±10fpm (Triple-flash)			
Certifications	UL, CE ^{*1} , RoHS, FCC			
Mass		0.57kg		0.61kg



LFK-S









IP55

Φ100

New LED flashing beacon! So bright, it has a dimming input.

Wiring Dimensions (Unit: mm) 100 External Contact 143.5 White/ Dimming Wire Red/Power Wire (+) **Power** External Black/ Power Wire (-) ر Source * Maximum Product Insulation Fuse 2A Board Thickness: 7mm UL 2517 AWG20x3c From Bottom (300)

Specifications

Model	LFK-12S	LFK-24S	LFK-48S	
Rated Voltage	DC 12V	DC 24V	DC 48V	
Current Consumption (max)	0.49A	0.23A	0.17A	
Operating Ambient Temperature Range	-20°C to +60°C			
Protection Rating	IP55			
Mounting Location	ng Location Indoor or Outdoor		or Use	
Flash Rate	140 ±14fpm (Triple-flash)		e-flash)	
Certifications	CE ^{*1} , RoHS, ECE		CE	
Mass		0.5kg		

*1 LFK-48 not CE certified.

LFK-	5
Rated Voltage 12: DC 12V 24: DC 24V 48: DC 48V	Color R: Red Y: Amber G: Green B: Blue C: Clear/White





LED (Ω)
IP23
Φ162



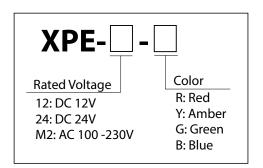
New LED flashing beacon! Available in four LED Colors.

FEATURES

- Long-lasting LED's greatly reduce maintenance costs.
- Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Main Body is made of impact and heat-resistant ABS resin.
- Dome lens is made of superior weather-resistant and light-translucent AS resin.
- · Available Colors are Red, Amber, Green, and Blue.
- CE Compliant
- RoHS Compliant (DC 12V and DC 24V Type).

Specifications

Model	XPE-12	XPE-24	XPE-M2
Rated Voltage	DC 12V DC 24V		AC 100 - 230V
Voltage Range	DC 9.5-15V	DC 20 - 30V	AC 90 - 250V
Current Consumption	0.50A	0.23A	0.12A (at 100VAC)
Operating Ambient Temperature	-30°C to +70°C		-20°C to +60°C
Protection Rating		IP23	
Mounting Location	Indoor or Outdoor Use		
Flash Rate	110 ±10fpm (Triple-flash Pattern)		
Certifications		RoHS	





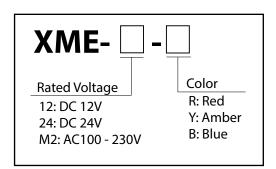
New Large Sized LED flashing beacon! Available in three LED Colors.

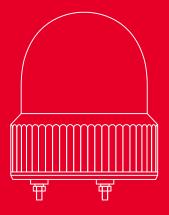
FEATURES

- Extended product lifespan by using LED lights.
- · Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Main body is made of a melamine baked finish with a corrosion-proof stainless steel (SUS 304) lens mounting fixture.
- Dome lens is made of superior weather-resistant and light-translucent AS resin.
- Mounting Bolts are drip-proof and made of rust-free stainless steel.
- Available Colors are Red, Amber, and Blue.
- · CE Compliant
- RoHS Compliant (DC 12V and DC 24V Type).

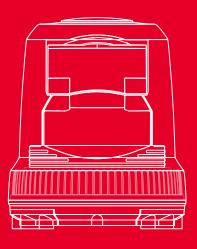
Specifications

Model	XME-12	XME-24	XME-M2	
Rated Voltage	DC 12V DC 24V AC		AC 100 - 230V	
Voltage Range	DC 9.5-15V	DC 20 - 28V	AC 90 - 250V	
Current Consumption	0.50A	0.23A	0.12A (at 100VAC)	
Operating Ambient Temperature	-30°C to +70°C		-20°C to +60°C	
Protection Rating		IP23		
Mounting Location	Indoor or Outdoor Use			
Flash Rate	110 ±10fpm (Triple-flash Pattern)			
Certifications		RoHS		





Revolving Warning Lights



RLE

Revolving Warning Light









Φ82

LED Signal Light featuring energy-saving and enhanced illumination with an LED integrated reflection system.

FEATURES

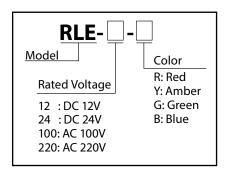
- · Indoors allows upright, inverted, and horizontal installation; outdoors allows upright installation only.
- Dome lens is made of superior impact and heat resistant polycarbonate resin.
- · Compact motor with high durability and energy-efficient characteristics.
- LED integrated reflection system for enhanced illumination.
- Energy-efficient and maintenance-free LED array
- Main body is made of impact and heat resistant ABS resin.
- Colors available are Red, Amber, and Green.

Specifications

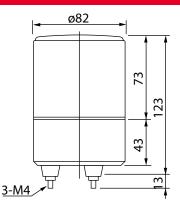
Model	Rated Voltage	Power Consumption	Flash Rate (fpm)	Mass
O RLE-12	DC 12V	2.5W		400-
RLE-24	DC 24V	3.0W	120	400g
RLE-100	AC 100V	4.00/	120	600g
RLE-220	AC 220V	4.0W		ooog

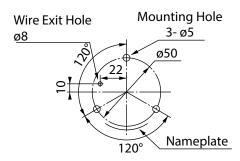
Available by Special Order

How to Order



Dimensions (Unit: mm)







RU/RUP/RS

Revolving Warning Light

 $C \in$



IP55 with SZ-210

Ф82

Compact Revolving Warning Light perfectly designed for small devices.

FEATURES

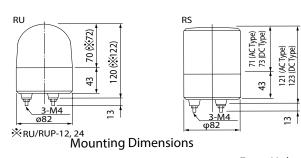
Optional Rubber Gasket SZ-210

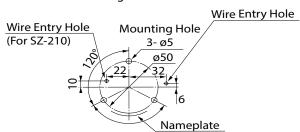
- · Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- Dome is made from superior impact and heat resistant polycarbonate resin.
- Main body is made of impact and heat-resistant polycarbonate resin.
- Rotating parabolic reflector to enhance visibility from a distance.
- · Vibration-resistant automobile bulb for extended bulb life.
- · Available Colors are Red, Amber, Green, and Blue.

AVAILABLE BY SPECIAL ORDER

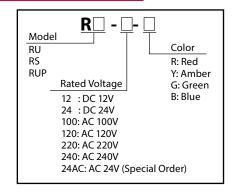
- · Body Color: Silver
- Mounting Pole and Bracket: Standard with RUP Series.

Dimensions (Unit: mm)





How to Order



Model	Rated Current Voltage Consumption		Flash Rate	В	ulb	Mass	
iviodei			(fpm)	Ratings	Repl. No.	RU/RS	RUP
RU(P)/RS-12	DC 12V	0.5A	120	12V 6W	18	0.4kg	0.8kg
RU(P)/RS-24	DC 24V	0.3A		24V 6W	19		
RU(P)/RS-100	AC 100V	0.14		12V 6W	18	0.6kg	1.0kg
RU(P)/RS-120	AC 120V	0.1A					
RU(P)/RS-220	AC 220V	0.05A					
RU(P)/RS-240	AC 240V	0.03A					
RU(P)/RS-24AC	AC 24V	0.3A		24V 6W	19	0.4kg	0.8kg

Available by Special Order

RKE/RKEB/RHE/RHEB



Super-bright LED Revolving Warning Light



Compact LED revolving warning light featuring one super-bright LED chip and an enhanced high dispersion reflection system.

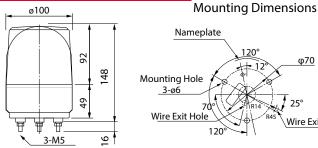
FEATURES

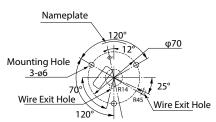
- RHEB/RKEB includes an internal alarm (hi-pitched tone) of 90dB (at 1m) that is synchronized with the light operation.
- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- Compact motor with high durability and energy-efficient characteristics.
- Dome lens is made of impact and heat resistant polycarbonate resin.
- Energy-efficient by using only 1 LED chip which is super-bright.
- Main body is made of impact and heat resistant ABS resin.
- Colors available are Red, Amber, Green, and Blue.
- Uses a terminal block for easy wiring.

Specifications

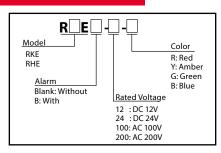
Model	Rated Voltage	Current Consumption	Flash Rate	Mass	
RKE/RKEB-12	DC 12V	0.25A		400g	
RKE/RKEB-24	DC 24V	0.16A		400g	
RKE/RKEB-100	AC 100V	0.04A		600g	
RKE/RKEB-200	AC 200V	0.02A	120 6		
RHE/RHEB-12	DC 12V	0.25A	120 fpm	400-	
RHE/RHEB-24	DC 24V	0.16A		400g	
RHE/RHEB-100	AC 100V	0.04A		600a	
RHE/RHEB-200	AC 200V	0.02A		600g	

Dimensions (Unit: mm)





How to Order



Newly developed reflector for LED revolving warning light



The PATLITE LED revolving warning light uses a unique and patented reflecting system, solely designed for these models. Even though the dispersion characteristics of the LED chip is less than an incandescent bulb, PATLITE's unique design creates an equivalent dispersion effect with the light reflector.



The uniquely designed reflectors not only reflect upward and to the side, but also downward; this cannot be achieved by incandescent bulb type revolving warning lights. The PATLITE LED revolving warning light is suitable for applications where high visibility from a low angle is required.



RH-A/RK-A

Revolving Warning Light





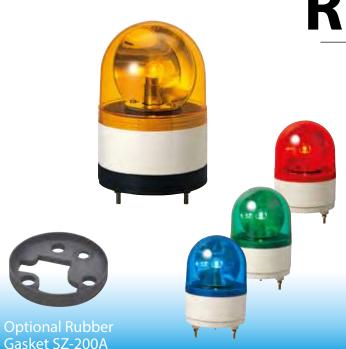
IP55 with SZ-200A

1 Alarm Sound (RHB & RKB)

90_{dB} at 1m (RHB & RKB)



Φ100

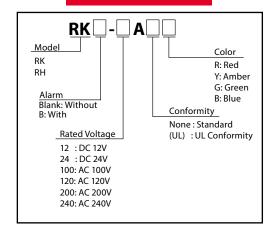


Compact Revolving Warning Light featuring high durability and easy wiring with terminal block.

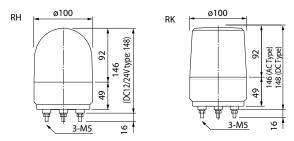
FEATURES

- Indoors allows upright, inverted, and sideways installation; Outdoors allows upright installation only.
- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- Dome is made from superior impact and heat resistant polycarbonate resin.
- · Main body is made of impact and heat-resistant polycarbonate resin.
- Built-in audible alarm for models RHB/RKB at a sound of 90dB (at 1m).
- Rotating parabolic reflector to enhance visibility from a distance.
- Is UL Listed for 24V, 120V, and 240V types (File No. E215660)
- · Vibration-resistant automobile bulb for extended bulb life.
- · Available Colors are Red, Amber, Green, and Blue.
- Utilizes a terminal block for easy wiring.
 - AVAILABLE BY SPECIAL ORDER (RH-A TYPE)
- · Body Color: Silver

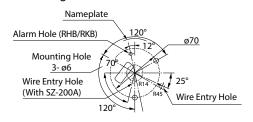
How to Order



Dimensions (Unit: mm)



Mounting Dimensions



Model	Rated	Current	Flash Rate	Вι	ılb	
Model	Voltage Consumption		(fpm)	Ratings	Repl. No.	Mass
RH/RHB-12A	DC 12V	0.8A		12V 10W	9	400g
RH/RHB-24A (UL)	DC 24V	0.5A		24V 10W	10	4009
RH/RHB-120A (UL)	AC 120V	0.1A				
RH/RHB-200A	AC 200V	0.03A		12V 5W	12	600g
RH/RHB-240A (UL)	AC 240V	0.05A	170			
RK/RKB-24A (UL)	DC 24V	0.5A		24V 10W	10	400g
RK/RKB-120A (UL)	AC 120V	0.1A				
RK/RKB-200A	AC 200V	0.03A		12V 5W	12	600g
RK/RKB-240A (UL)	AC 240V	0.05A				

SKH-EA

Revolving Warning Light

 ϵ



P23

Φ100





Best-selling Revolving Warning Light for wide range of applications.

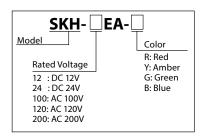
FEATURES

- · Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- Dome is made from superior weather-resistant and light-translucent acrylic resin.
- Rotating parabolic reflector to enhance visibility from a distance.
- · Vibration-resistant automobile bulb for extended bulb life.
- · Available Colors are Red, Amber, Green, and Blue.

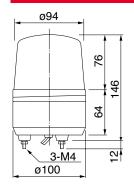
Specifications

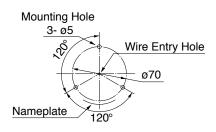
Series	Model	Rated		Flash Rate	Bulb		Mass
Series	Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	iviass
USA Version	SKH-12EA	DC 12V	0.8A		12V 10W	9	400g
	SKH-24EA	DC 24V	0.5A		24V 10W	10	4009
	SKH-120EA	AC 120V	0.07A		12V 5W	12	600g
	SKH-12EA	DC 12V	0.8A	170	12V 10W	9	4000
Standard	SKH-24EA	DC 24V	0.5A		24V 10W	10	400g
Version	SKH-100EA	AC 120V	0.065A		12// 5/4/	12	C00-
	SKH-200EA	AC 200V	0.03A		12V 5W	12	600g

How to Order



Dimensions (Unit: mm)







WH-A/WK-A

Revolving Warning Light

(6









IP54 (B Type:IP23)

Φ100

Easily attachable to an electrical box with easy wiring to a terminal block.



Install in various directions when using for indoor applications.

Sideways



• Upside-down



When installing the WHB, direct the buzzer in a downward direction.

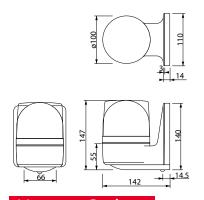
Wall-mount Revolving Warning Light featuring easy wiring with terminal block.

FFATURES

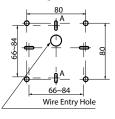
- Has the CE mark and conforms to the requirements (12V, 24V type only) for the EC directive.
- Upright, inverted, and sideways installation allowed for indoors as well as outdoors*.
- Dome is made from superior weather-resistant and light-translucent acrylic resin.
- Rotating parabolic reflector to enhance visibility from a distance.
- Compact motor with high durability and energy-efficient characteristics.
- Vibration-resistant automobile bulb for extended bulb life.
- Main body is made of impact and heat resistant ABS resin.
- Available Colors are Red, Amber, Green, and Blue.
- Uses a terminal block for easy wiring.

*WHB installation is upright only for outdoor use.

Dimensions (Unit: mm)

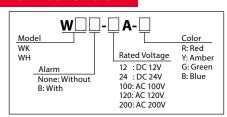


Mounting Dimensions





How to Order



Model	Rated	Current	Flash Rate	Bu	ılb	Mass
Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	IVIASS
WK-12A	DC 12V	0.8A		12V 10W	9	
WH-24A	DC 24V	0.5A		24V 10W	10	550g
WK-24A	DC 24V	0.57		240 1000	10	
WH-100A	AC 100V	0.07A				
WK-100A	AC 100V	0.07A			12	750g
WH-120A	AC 120V	0.08A		12V 5W		
WK-120A	AC 120V	U.U6A	170	120 300	12	
WH-200A	AC 200V	0.04A				
WK-200A	AC 200V	0.04A				
WKB-12A	DC 12V	0.85A		12V 10W	9	
WHB-24A	DC 24V	0.5A		24V 10W	10	550g
WKB-24A	DC 24V	0.5A		240 1000	10	
WHB-100A	AC 100V					
WKB-100A	AC 100V	0.07A				
WHB-120A	AC 120V	0.07A		12/ 5/4	10	750-
WKB-120A	AC 120V			12V 5W	12	750g
WHB-200A	AC 2001/	0.044				
WKB-200A	AC 200V	0.04A				

SKH-A

Revolving Warning Light

(12/24V Only)





1 Alarm Sound (SKHB)

90dB at 1m (SKHB)

P54 (SKH-SA, others IP23)

Ø118



Corrosion-proof plastic Revolving Warning Light for a variety of applications.

FEATURES

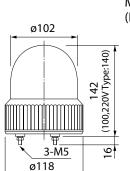
- Rotating parabolic reflector to enhance visibility from a distance.
- · Vibration-resistant automobile bulb for extended bulb life.
- Includes an internal alarm of 90dB (at 1m) that is synchronized with the light operation.
- Upright, inverted, and sideways installation allowed for indoors* as well as outdoors.
- Dome is made from superior weather-resistant and light-translucent acrylic resin.
- Available Colors are Red, Amber, Green, and Blue.
- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.

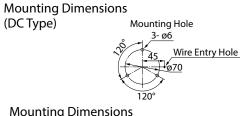
*SKH-SA installation allows upright and inverted installation only for indoor use.

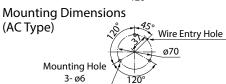
Specifications

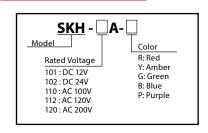
	Mode		Rated	Current	Flash Rate	Bι	ılb	Mass
Sk	H-A Series	SKHB-A Series	Voltage	Consumption	(fpm)	Ratings	Repl. No.	IVIASS
9	KH-101A	SKHB-12A	DC 12V	0.8A		12V 10W	9	400~
9	KH-102A	SKHB-24A	DC 24V	/ 0.5A		24V 10W	10	400g
9	KH-110A	SKHB-100A	AC 100V	0.065A				
9	KH-112A	SKHB-120A	AC 120V	0.07A	170 12V 5W		12	600g
9	KH-120A	SKHB-200A	AC 200V	0.03A				
Ships	/ SKH-102SA	-	DC24V	0.5A		24V 10W	10	400kg
<u>`</u> .	SKH-110SA	-	AC 100V	0.1A		12V 5W	12	600g

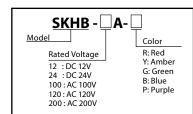
Dimensions (Unit: mm)













SKHE/SKHEB

Super-bright LED Revolving Warning Light

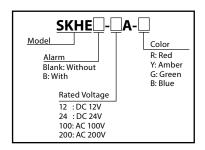


Compact LED revolving warning light featuring one super-bright LED chip and an enhanced high dispersion reflection system.

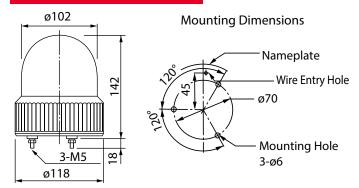
FEATURES

- SKHEB series includes an internal alarm (hi-pitched tone) of 90dB (at 1m) that is synchronized with the light operation.
- · Indoors allows upright, inverted, and horizontal installation; outdoors allows upright installation only.
- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- Compact motor with high durability and energy-efficient characteristics.
- Energy-efficient by using only 1 LED chip which is super-bright.
- Dome lens is made of impact and heat resistant polycarbonate resin.
- · Colors available are Red, Amber, Green, and Blue.

How to Order



Dimensions (Unit: mm)



Specifications

Model	Rated Voltage	Current Consumption	Flash Rate (fpm)	Mass	
SKHE/SKHEB-12	DC 12V	0.25A		400g 600g	
SKHE/SKHEB-24	DC 24V	0.16A	120		
SKHE/SKHEB-100	AC 100V	0.04A	120		
SKHE/SKHEB-200	AC 200V	0.02A			

Newly developed reflector for LED revolving warning light



The PATLITE LED revolving warning light uses a unique and patented reflecting system, solely designed for these models. Even though the dispersion characteristics of the LED chip is less than an incandescent bulb, PATLITE's unique design creates an equivalent dispersion effect with the light reflector.



The uniquely designed reflectors not only reflect upward and to the side, but also downward; this cannot be achieved by incandescent bulb type revolving warning lights. The PATLITE LED revolving warning light is suitable for applications where high visibility from a low angle is required.

SKP-A

Revolving Warning Light

(12/24/48V Only)

Bulb

Q

IP23

Φ138









FEATURES

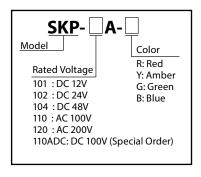
- Main body is made of a melamine baked finish with a corrosion-proof stainless steel (SUS 304) lens mounting fixture.
- Has the CE mark and conforms to the requirements (for 12V, 24V, 48V DC types only) for the EC directive.
- Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Dome lens is made of superior impact and heat resistant polycarbonate resin.
- Rotary Mechanism is gear-driven for stable rotation under vibration.
- · Available Colors are in Red, Amber, Green, and Blue.

Specifications

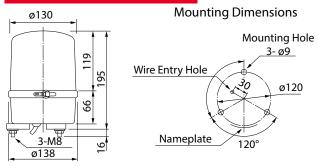
Model			Flash Rate			Mass	
Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	iviass	
SKP-101A	DC 12V	2.6A		12V 35W	1	0.8kg	
SKP-102A	DC 24V	1.2A		24V 35W	2	U.okg	
SKP-104A	DC 48V	0.8A	140	48V 35W	5		
SKP-110ADC	DC 100V	0.35A 120V 40W	120V 40W	36	0.9kg		
SKP-110A	AC 100V	0.3A				1.0kg	
SKP-120A	AC 200V	0.13A	120	220V 30W	37	1.0Kg	
<u> </u>							

Available by Special Order

How to Order



Dimensions (Unit: mm)





KP-A

Revolving Warning Light

C E (24V Only)







BulbIP23Φ162

Corrosion-proof plastic Revolving Warning Light for a wide range of applications.

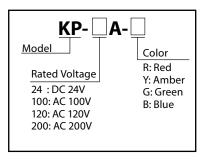
FEATURES

- Extended product lifespan by using vibration-resistance and reliable operation, even under a severely cold environment (-30°C).
- Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Has the CE mark and conforms to the requirements (for 24V type only) for the EC directive.
- Dome lens is made of superior weather-resistant and light-translucent acrylic resin.
- Mounting Bolts are drip-proof and made of rust-free stainless steel.
- Rotating parabolic reflector to enhance visibility from a distance.
- Main Body is made of special UV and water-resistant resin.
- Available Colors are Red, Amber, Green, and Blue.

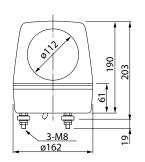
Specifications

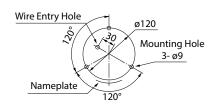
Model	Rated	Current	Flash Rate	Вι	ılb	Mass	
Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	IVIGSS	
KP-24A	24V DC	1.2A		24V 35W	2	1.0kg	
KP-100A	100V AC	0.3A	140	120V 40W	6		
KP-120A	120V AC	0.4A		1200 4000	0	1.2kg	
KP-200A	200V AC	0.13A	120	220V 30W	37		

How to Order



Dimensions (Unit: mm)







Ideal for forklift, material handling equipment and a great variety of applications.

FEATURES

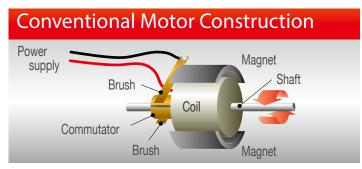
- Has the CE mark and conforms to the requirements (for 12V, 24V, 48V type) for the EC directive.
- · Colors available are Red, Amber, Green, and Blue.
- RLR complies with the RoHS Directive.

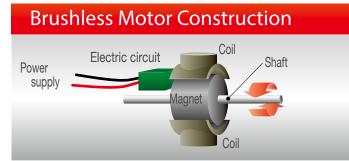
LED + Brushless Motor + Bearing Mechanism



Long Life

The RLR has many advantages in comparison to a rotating beacon using incandescent bulbs and the conventional motor. The LED will last approximately 20 to 40 times longer than an incandescent bulb, and in combination with a brushless motor with bearings, allows the RLR to operate from 8,000 hrs to 10,000 hrs, compared to 5,000 hrs for other rotating beacons.











High Visibility



High Protection

IP66 TEST PROCEDURE

IPX6= Water is sprayed for at least 3 minutes at a flow rate of 100 L/min from a distance between 2.5m to 3.0m, and from all 360° directions using a 12.5mm diameter jet hose nozzle.

IP6X= The target unit is tested under-pressure in a dust chamber for 8 hours.

How to Order

Model Code Rated Voltage

04 : DC 48V M1 : DC 12-24V M2 : AC 90~250V RLR-

R:Red G:Green Y:Amber B:Blue

Color

Mounting Dimensions

Blank: φ140 P: φ120

Typical Vibration Values

2G (19.6m/s²)



Passenger Car

4.5G (44.1m/s²)



Construction Machinery

7G (68.6m/s²)



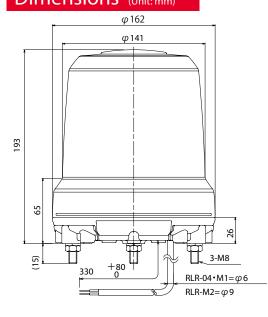
Emergency Vehicle

11G (107.8m/s²)

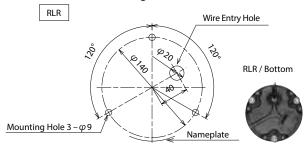


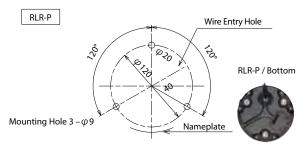
Dump Trucks

Dimensions (Unit: mm)



Mounting Dimensions





Model	Rated Voltage	Operating Voltage Range	Vibration Resistance	Operating Temperature Range	Dome	Mass
RLR-M1	DC 12-24V	DC 9.5V - 32V	110m/s ²	-30 C - +70 C	-R (Red)	1 01:0
RLR-04	DC 48V	DC 20V - 30V	(11G)	-30 C - +70 C	-Y (Amber) -G (Green)	1.0kg
RLR-M2	AC 90-250V	AC 90V - 250V	45m/s ² (4.5G)	-10 C - +50 C	-B (Blue)	1.06kg

SKHB-1006D Revolving Warning Light Bullb





Alarm Sound

Φ162

Portable



Portable Revolving Warning Light with dry cell batteries.

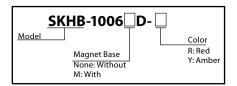
FEATURES

- Built-in operation-selectable alarm with external switch for light rotation only, or with buzzer and light rotation (solenoid buzzer sound).
- Contains five (5) SUM-1 batteries for 4 hours of operation, or five (5) LR20 for about 15 hours.
- Dome is made of superior weather-resistant and light-translucent acrylic resin.
- The 1006MA type includes a powerful magnet for secure placement.
- Installation is for the upright position only.
- Available Colors are Red and Amber.

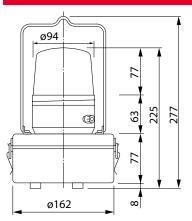
Specifications

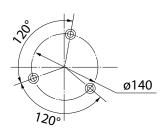
Model	Rated	Power	Flash Rate	Вι	ılb	Mass
	Voltage	Consumption	(fpm)	Ratings	Repl. No.	IVIASS
SKHB-1006D	DC6V (SUM-1x5)	3W	150	6V 3W	8	2.0kg
SKHB-1006MD						2.1kg

How to Order



Dimensions (Unit: mm)







SKL-A

Revolving Warning Light

C E (12/24/48V Only)



Bulb

IP23

Φ162

Basic Large-sized Revolving Warning Light with highly durable housing.

FEATURES

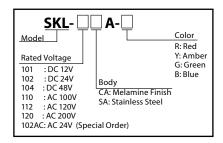
- · Main body for the SKL-CA has a scratch-free melamine baked finish, and the SKL-SA is of corrosion-proof stainless steel.
- Has the CE mark and conforms to the requirements (for 12V, 24V, 48V DC type only) for the EC directive.
- Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Dome is made of a superior impact and heat-resistant polycarbonate resin.
- Available Colors are Red, Amber, Green, and Blue.

Specifications

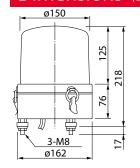
Model	Rated Current Voltage Consumption		Flash Rate	Bu	ılb	Mass
Model			(fpm)	Ratings	Repl. No.	IVIASS
SKL-101CA/101SA	12V DC	2.6A		12V 35W	1	
SKL-102CA/102SA	24V DC	1.2A		24V 35W	2	1.3kg
○ SKL-102ACSA	24V AC	1.24	140			
SKL-104CA	48V DC	0.8A	140	48V 35W	5	1.4kg
SKL-110CA/110SA	100V AC	0.3A		120V 40W	36	
SKL-112SA	120V AC	0.4A		1200 4000	30	1.5kg
SKL-120CA/120SA	200V AC	0.13A	120	220V 30W	37	

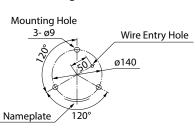
Available by Special Order

How to Order



Dimensions (Unit: mm)





HP

Revolving Warning Light

Halogen

Φ182



Large Revolving Warning Light with a solid design.

FEATURES

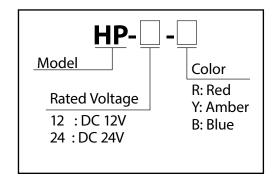
- Dome is made from superior weather-resistant and light-translucent acrylic resin.
- Main body is made of impact and heat resistant ABS resin.
- Available Voltages are DC 12V and DC 24V.
- · Available Colors are Red, Amber, and Blue.
- Utilizes a Halogen Bulb (Sold Separately).

Specifications

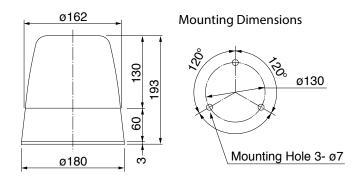
Model	Rated	Halogen Bulb	Flash Rate	Mass
Model	Voltage	Bulb sold seperately	(fpm)	
◎ HP-12	12V/24 DC	0.5A	160	1.0kg
○ HP-24	12V/24 DC	U.JA	160	

Available by Special Order

How to Order



Dimensions (Unit: mm)





KG

Revolving Warning Light

Pulb
IP23
Φ186

Dual-face Reflector

Large lightweight Revolving Warning Light with dual-face reflector.

FEATURES

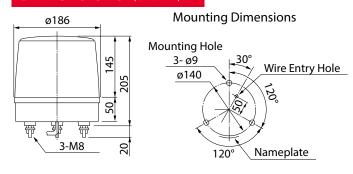
- · Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Main Body is made of a black resin for resistance against harsh weather and UV rays.
- · Compact motor with high durability and energy-efficient characteristics.
- The red dome is made of AS resin; the amber dome is made of PS resin.
- Dual-face reflector for a powerful rotary flash.
- Available Colors are in Red and Amber.

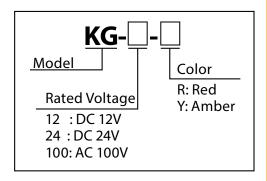
*Please contact your local PATLITE representative for other available voltages.

Specifications

Model	Rated	Current	Flash Rate	Bu	Mass	
	Voltage	Consumption	(fpm)	Ratings	Repl. No.	IVIASS
KG-12	DC 12V	2.7A		12V 35W	1	700-
KG-24	DC 24V	1.2A	180	24V 35W	2	700g
KG-100	AC 100V	0.32A		120V 40W	36	900g

Dimensions (Unit: mm)





SKC-A

Revolving Warning Light

C€

Bulb

IP23

Φ187

Dual-face Reflector



Large Revolving Warning Light featuring a powerful dual-face reflector flash.

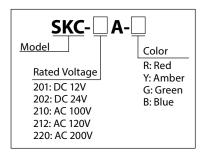
FEATURES

- Extended product lifespan by using vibration-resistance and reliable operation, even under a severely cold environment (-30°C).
- Main body is made of a melamine baked finish with a corrosion-proof stainless steel (SUS 304) lens mounting fixture.
- Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- Dome lens is made of superior weather-resistant and light-translucent acrylic resin.
- The rotary mechanism is belt-driven for an extremely guiet and stable rotation.
- Compact motor with high durability and energy-efficient characteristics.
- Available Colors are in Red, Amber, Green, and Blue.
- Dual-face reflector for a powerful rotary flash.

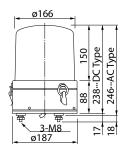
Specifications

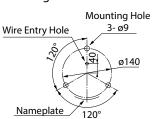
Model	Rated	Current	Flash Rate	Bu			
Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	Mass	
SKC-201A	12V DC	2.6A		12V 35W	1	1 610	
SKC-202A	24V DC	1.2A	200	24V 35W	2	1.6kg	
SKC-210A	100V AC	0.3A	200	120V 40W	36		
SKC-212A	120V AC	0.4A		1200 4000	30	1.8kg	
SKC-220A	200V AC	0.13A	160	220V 30W	37		

How to Order



Dimensions (Unit: mm)







Compact revolving warning light with cigar lighter plug to attach onto your car for road service.

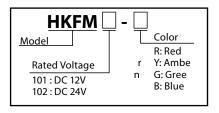
FEATURES

- Large-sized rotating parabolic reflector to enhance visibility from a distance.
- Cigar lighter plug with a 4m cable for easy power connection.
- Available Colors are in Red, Amber, Green, and Blue.
- · Rim-drive motor for a quiet and stable rotation.
- Dome lens is made of polycarbonate resin.

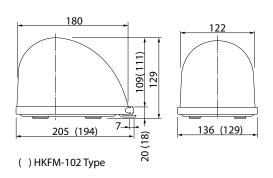
Specifications

Model	Rated Voltage	Current Consumption	Flash Rate (fpm)	Bulb	Mass
HKFM-101	DC 12V	2.9A	220	12V 35W	900~
HKFM-102	DC 24V	1.9A	230	24V 55W	800g

How to Order



Dimensions (Unit: mm)





Cord length: 4m (with cigar lighter plug)

SKV-A

Revolving Warning Light

C E_(12/24V Only)

Bulb

IP66

Φ204





Corrosion-resistant Revolving Warning Light.

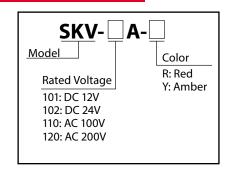
FEATURES

- · Main body is made of corrosion-resistant aluminum alloy die-cast with a metal cable gland.
- Dome lens is made of superior impact and heat resistant polycarbonate resin.
- Operating Temperature Range is from -30°C to +80°C.
- · Allows upright, inverted, and sideways installation.
- · Available Colors are in Red and Amber.

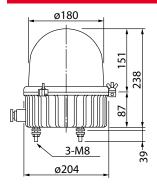
Specifications

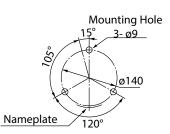
Madal	Rated	Current	Flash Rate	Bu	Mass		
Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	iviass	
SKV-101A	12V DC	2.6A		12V 35W	1	2.6kg	
SKV-102A	24V DC	1.2A	140	24V 35W	2	2.6kg	
SKV-110A	100V AC	0.3A		120V 40W	36	2 01/0	
SKV-120A	200V AC	0.13A	120	220V 30W	37	2.8kg	

How to Order



Dimensions (Unit: mm)





















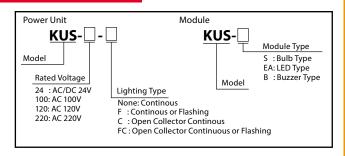
□ 70

The KUS Series cube tower; uses advanced technology with a modular design to combine two different lights on one unit.

FEATURES

- Light modules can be stacked up to 4 tiers in any color combination.
- RoHS Compliance for Models KUS-24, KUS24F, KUS-EA-R/Y/G/B/C.
- Lenses are made of heat and shock resistant polycarbonate resin.
- Each light has a built-in dip switch to control the light on or off.
- Maximum power consumption of the base unit is 21 watts.
- · Light and Base units are sold separately.
- IP rating of IP54 (Except the KUS-B)
- KUS-F flashes 60 times a minute.

How to Order

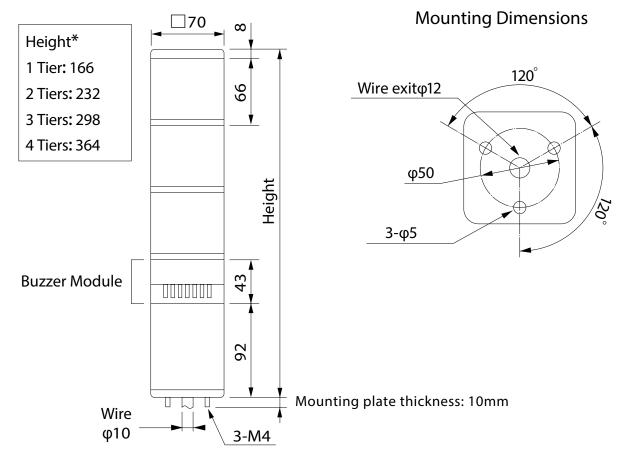


Power Unit	Model		Rated Voltage	Power Consumption
	KUS -24		AC/DC 24V	
Continuous	KUS -100		AC 100V	
Lighting	KUS -120		AC 120V	
	KUS -220		AC 220V	
	KUS -24	F	AC/DC 24V	
Continuous	KUS -100	F	AC 100V	
Lighting or Flashing	KUS -120	F	AC 120V	
	KUS -220	F	AC 220V	21W
	KUS -24	С	AC/DC 24V	2100
Open-Collector Continuous	KUS -100	C	AC 100V	
Lighting	KUS -120	С	AC 120V	
	KUS -220	С	AC 220V	
Onen Cellester	KUS -24	FC	AC/DC 24V	
Open-Collector Continuous	KUS -100	FC	AC 100V	
Lighting or Flashing	KUS -120	FC	AC 120V	
Fiashing	KUS -220	FC	AC 220V	

Model	Rated	Power Consumption	Bulb		
Model	Voltage	Power Consumption	Ratings	Repl. No.	
KUS-S (Bulb)	DC 24V	6W	24V 6W	19	
KUS-EA (LED)	DC 24V	R,Y: 1.2W; G,B,C: 0.9W	_	_	

Model	Rated Voltage	Power Consumption	Volume
KUS-B	DC 24V	0.5W	80dB (at 1m)

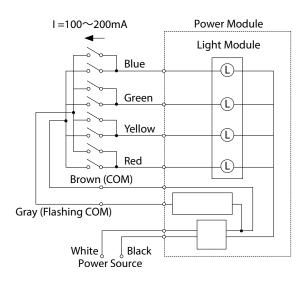
Dimensions (Unit: mm)



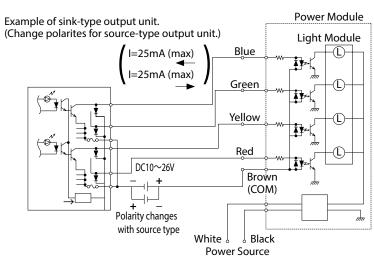
^{*} Buzzer module height not included

Wiring

Contact Input Type (KUS,KUS-F)



Open-collector Type (NPN/PNP for KUS-FC,C)







KJS / KJSB

Cube Tower











NPN/PNP **Open-collector**

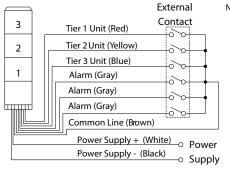
Bulb

Lightweight Cube Tower featuring a built-in buzzer designed to fit applications for small equipment.

FEATURES

- Built-in Alarm with intermittent buzzer sound and volume of up to 85dB (at 1m).
- Lens is made of superior weather-resistant and light-translucent AS resin.
- Rotating parabolic reflector to enhance visibility from a distance.
- Main body is made of impact and heat resistant ABS resin.
- · Available colors are Red, Amber, Green, and Blue.
- Flashing cycle of 160 times/min.
- · One spare bulb is included.

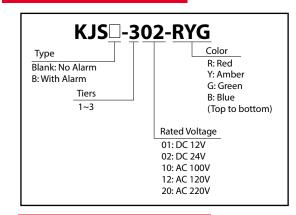
Wiring



NPN Open-collector Transistor Red, Yellow, Blue, Grav

*DC Inputs are polarized *Only the KJSB has Gray wires for alarm input.

How to Order

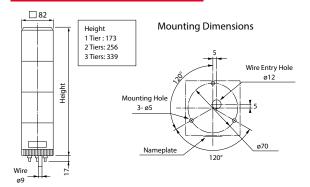


Specifications

Stack Rated Power Flash Rate

	Juack	Model		Mateu	rowei	i iasii nate		
	Number	IVIO	uei	Voltage	Consumption	(fpm)	Ratings	Repl. No
			-101	DC 12V	6W		12V 5W	12
			-102	DC 24V	12W		24V 10W	10
	1 Tier	KJS KJSB	-110	AC 100V				
		1035	-112	AC 120V	8W		12V 5W	12
			-120	AC 200V		160		
		KJS KJSB	-201	DC 12V	11W		12V 5W	12
			-202	DC 24V	24W		24V 5W	10
			-210	AC 100V	16W			
			-212	AC 120V			12V 5W	12
			-220	AC 200V				
			-301	DC 12V	16W		12V 10W	9
	3 Tiers		-302	DC 24V	35W		24V 10W	10
		KJS KJSB	-310	AC 100V				
			-312	AC 120V	23W		12V 5W	12
			-320	AC 200V				

Dimensions (Unit: mm)



KJ/KJB Cube Tower





1 Alarm Sound

85dB at 1m (KJB)

IP23

□116





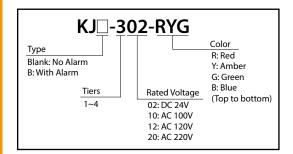


Lightweight Cube Tower featuring a built-in buzzer suitable for various indoor applications.

FEATURES

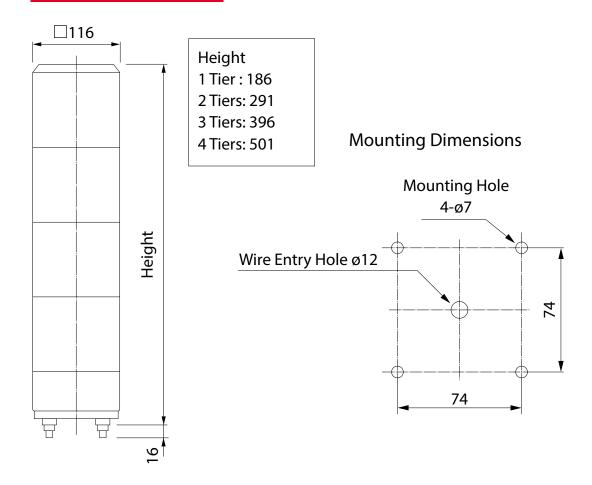
- Built-in Alarm with intermittent buzzer sound and volume of up to 85dB (at 1m).
- Lens is made of superior weather-resistant and light-translucent AS resin.
- Rotating parabolic reflector to enhance visibility from a distance.
- Main body is made of impact and heat resistant ABS resin.
- · Available colors are Red, Amber, Green, and Blue.
- · Installation is in the upright position only.
- Flashing cycle of 130 times/min.
- One spare bulb is included.

How to Order



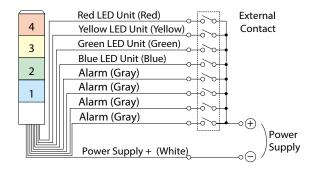
Stack		Mode	al.	Rated	Power	Flash Rate	Bulb	
Number		wiodei		Voltage	Voltage Consumption		Ratings	Repl. No.
			-102	DC 24V	13.5W		24V 10W	10
1 Tier	 KJ	 KJB	-110	AC 100V	6W			
i ner	עא	םנא	-112	AC 120V	7W		12V 5W	12
			-120	AC 200V	5.5W			
			-202	DC 24V	25.54W		24V 5W	10
2 Tiers	KJ	XJ KJB	-210	AC 100V	11W	- 130	12V 5W	
2 Hers	עא		-212	AC 120V	13W			12
			-220	AC 200V	9.9W			
		KJ KJB	-302	DC 24V	37.5W		24V 10W	10
2 7:	 		-310	AC 100V	16W			
3 Tiers	K		-312	AC 120V	18W		12V 5W	12
			-320	AC 200V	14.3W			
			-402	DC 24V	49.5W		24V 10W	10
4 Tiers	KJ	KJB	-410	AC 100V	21W			
4 Hers	🗸	ם נא	-412	AC 120V	26W		12V 5W	12
			-420	AC 200V	18.7W			

Dimensions (Unit: mm)

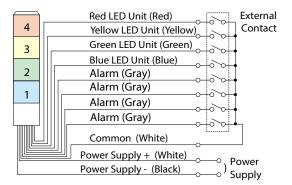


Wiring

KJ/KJB (24V DC)



KJ/KJB (100V AC, 220V AC)

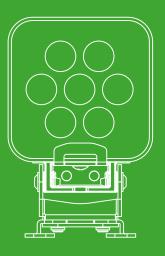


^{*}KJ-110/112/120 are voltage-contact type, therefore have no alarm signal wires.

^{*}Only the KJB has Gray wires for alarm input.

Current Consumption and Contact Capacity per Module								
Rated Voltage Signal Wire Current Current Capacity Alarm Wire Current Current								
24V DC	0.42A 4.6A 5A or more 60mA 500mA							
100VAC/120VAC/220VAC	0.42A	4.0A	3A OI IIIOIE	OUITA	Joonna			

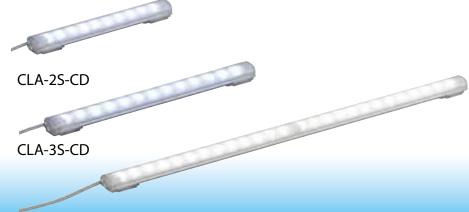
LED Lights





LED Light Bar





Daylight, Amber Natural White



IP66/67/69K

CLA-6S-CN

More than a diffusion LED light bar, it can be used in places like the food-processing industry with its protection rating of "IP69K", which can endure high-pressurized hot water washing.

- Bright, long lasting LED's.
- Suitable for food, beverage and pharmaceutical applications where high-pressure, 80°C high-temperature wash-downs are required. Also meets IP66/67 standards.
- The radiating temperature is reduced to 40 degrees or less (34% reduction in comparison to a 20W fluorescent light), increasing environmental efficiency.
- Six lengths in the range from 100 to 1200mm to choose from, with three colors (Daylight, Natural White, Amber), and four types of attachments, including a magnet one, offering a potential for various applications.
- The operating temperature range from -40°C to +60°C allows installation in sub-freezing temperatures, such as walk-in freezers.
- It is constructed with strong polycarbonate resin, which is resistant to shock.
- · Corresponds to Europe's RoHS Directive.
- · Obtained certification for ECOLAB.
- · Conforms to CE requirements.
- UL Listed (File No. E306141).

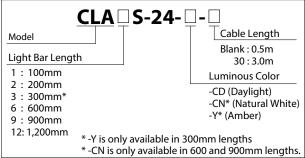
Luminous Color

With a high-intensity lumination, its suitable for applications such as lighting processing machinery workspace, for lighting up a video inspection system to light up more details, etc.



A 6800K daylightlight light bar at a distance of 50 cm from the center of irradiation has measured a maximum brightness of 400lx.

How to Order

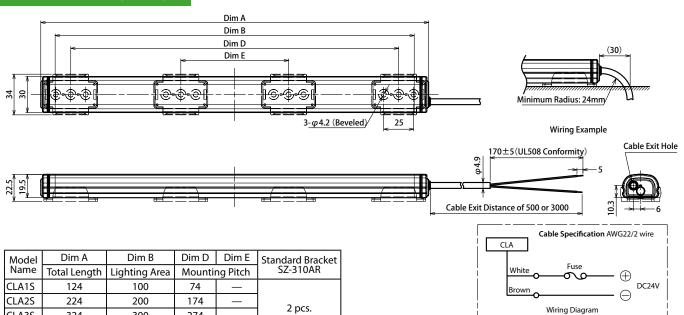


CLA-CN (Natural White: 4800K)

CLA-CD (Daylight: 6800K)

CLA-Y (Amber)

Dimensions (Unit: mm)



Options

CLA3S

CLA6S

CLA9S

CLA12S



324

624

924

1,224

300

600

900

1,200

274

574

874

1,174

290

390

4 pcs.

Rear Attachment (Screw Mount) Model SZ-310AR



Rear Attachment (Magnetic Mount) Model SZ-310ARM



Side Attachment (Screw Mount) Model SZ-310AS



Side Attachment (CLB-24N Compatible) Model SZ-310ASB

Specifications

Me	odel	Luminous Color	Rated Voltage	Vibration Resistance	Operating Temperature Range	Rated Current Consumption	Center Radiation (lx/50cm)	Main Body Material	Protection Rating	Mass
CLA1S	-24 -CD	Daylight				104mA	140			80g
CLA2S	-24 -CD	Daylight				208mA	270			130g
CLA3S	-24 -CD	Daylight					400			
CLA3S	-24 -CN	Natural White	20001			240mA	400			180g
CLA3S	-24 -Y	Amber	DC 24V (Polarized)	19.6 m/s ²	-40°C - +60°C (RH 90% or less)		220	Polycarbonate	IP66/67/69K	
CLA6S	-24 -CD	Daylight	(i Giarizea)		(1111) 0 / 0 01 1033/	480mA	650			340g
CLA6S	-24 -CN	Natural White				400IIIA	050			3409
CLA9S	-24 -CD	Daylight				720mA	810]		500g
CLA12S	-24 -CD	Daylight				960mA	890			660g



Water, Oil and Chemical Resistant LED Light Bar with an Illuminance of 2,100lx. (Measurement based on CLK6S-24AG-CD)

FEATURE

- Attained the IP69K standard for the meat/food processing, beverages and medicine manufacturing industries which demands the waterproofing performance. It also corresponds to IP66G/67G standards.
- Special design to reduce "Blinding Light" effect, reducing the risk of retinal damage (EN62471-2 for Photobiological Safety of Lamps and Lamp Systems).
- The product lineup includes three sizes (200mm, 300mm, 600mm), two colors (Daylight, Natural White), and different series (Side-exit Cable; M12 Quick-disconnect; Aluminum Alloy and Stainless Steel Body) for various applications.
- The operating temperature range from -40°C to +60°C allows installation in sub-freezing temperatures, such as walk-in freezers.
- Slim Profile
- · Corresponds to Europe's RoHS Directive.
- Conforms to CE requirements.
- UL Listed (File No. E306141, M12 type is UL Recognized, SG/SA type is not UL certified).
- · Passed IEC 62471

Specifications

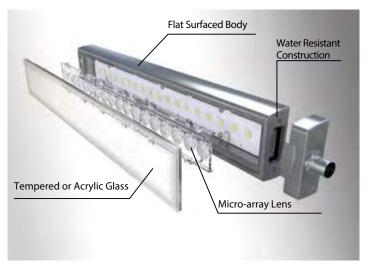
Spec	ifications/Material		Water and Oil Resistance/Aluminum Alloy							nical Resistance/ inless Steel
Lens Ma	terial				Tempere	d Glass			Specially-tr	eated Lens◊
Model		2S-AG	3S-AG	6S-AG	3C-AG	3CL-AG	6C-AG	6CL-AG	3C-SG	3C-SA
Lens Size	5	200mm	300mm	600mm	300mr	n	600mr	n	300	lmm
LED	Daylight: 6,500K: CD	•	•	•	•	•	•	•	•	_
Color	Natural White: 5,000K: CN	Δ	•	Δ	•	•	•	_	_	•
Center II	lumination (@1m)	820lx	1,200lx	2,100lx	1,2001	ζ.	2,1001	(1,2	00lx
Connect	ion Type	Side-ex	iting Cable,	L=0.5m	M12 Quick Disconnect	M12 Daisy Link	M12 Quick Disconnect	M12 Daisy Link	M12 Quick	Disconnect
Power C	onsumption	8.4W	12.5W	25W	12.5V	V	25W		12.	.5W
Rated Vo	oltage		DC24V (Poloarized)							
Operatin	g Temperature Range		-40°C - +60°C (RH 90% or less)							
Protection	on Rating		IP 66G/67G (IEC 60529)/IP69K (DIN 40050 Part 9)							
								· · -	1.61	

 Δ : Inquire before Ordering

0: Specially-treated lens has three layers embedded; PMMA, Shatter-proof Film, Tempered Glass

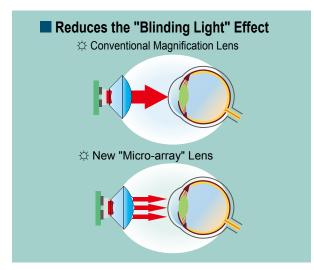
How to Order

Model Code	Illumination Area Size 2: 200mm 3: 300mm 6: 600mm	Model CLK]24	LED Color CD: Daylight, CN: Natural White
Wiring Method S: Side-exiting Cable	C: M12 Cable CL: M12 Daisy Link			Body Material AG: Aluminum & Glass SG: Stainless Steel & Glass SA: Stainless Steel & Special Lens



Angled Body and Flat Surface

The side body angle was designed to prevent dirt accumulation, and for water and oil to roll off the surface. The LED lens retains a simple flat-surface for lighting and to help when wiping it down.



Reduces the "Blinding Light" Effect

This design conforms to the Photobiological Safety of Lamps and Lamp Systems (Compliance :EN62471-2) in the Exempt Risk Group, which determines that no immediate retina damage is done.



One-touch Installation

Just sliding the body onto the bracket makes attachment easy; and it locks in place with a locking screw (which is hidden from the front). (Aluminum Body Only)



Angle Adjustment Bracket

SZ-320KS

The Worklight can be freely adjusted up to 60° up and down from the center. (With a scale at 10° step marks and screws to lock it into place.)



Surface-mounting Bracket

A space-saving flush-mount bracket. (Limited board thickness and lead wire specification of 6mm or less; M12 connector specification of 3mm or less) (Models 3 S-AG/3 C-AG Only)



M12 Quick Disconnect

Q

4-wire M12 Socket Cable, 5m (No. 1536308) 4-wire M12 SUS Socket Cable, 5m (No. 1552447)

Manufacturer: Phoenix Contact Corp.



Daisy Link at a maximum of 5 Units



4-wire M12 Link Cable, 0.6m (No. 1518892) 4-wire M12 SUS Link Cable, 0.6m (No. 1552638)

Manufacturer: Phoenix Contact Corp.

Product Lineup

110000	степсир			
Specifications Length	Side-exiting Cable Series (5)	M12 Quick Disconnect Series (C)	M12 Quick Disconnect Daisy Link Series (CL)	Stainless Steel (SUS) Body Series (C-SG/C-SA)
200 mm	25 (-CD)			
300 mm	(-CD)	(-CD)	(-CD) (-CN) *Up to 4 Units	(-CN)
600 mm	(-CD)	6C (-CD)	6CL (-CD) (-CN) *Only 1 Unit	





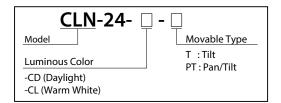
IP66G/67G/69K

Water and Oil resistant high-power LED Work Light with an illuminance of 820 lx. Industry's thinnest design at 22.2mm.

*The industry's first based on corporate investigation

- Made of aluminum alloy and tempered glass which is resistant to water, oil and coolants.
- Special design disperses heat radiation with illumination to surpass a 40W light bulb.
- The product lineup includes two colors (Daylight, Warm White) and two bracket options of Tilt (forward and back) or Pan & Tilt (forward, back and swivel left & right) to adapt to various scenarios.
- The operating temperature range of -40 to +60°C allows installation in sub-freezing temperature environments, such as cold storage
 warehouses.
- Conforms to CE and RoHS requirements.
- UL Listed (File No. E306141).

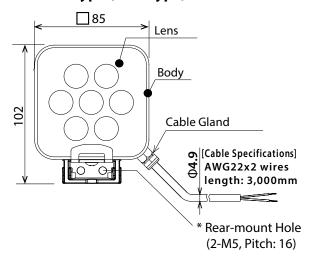
How to Order



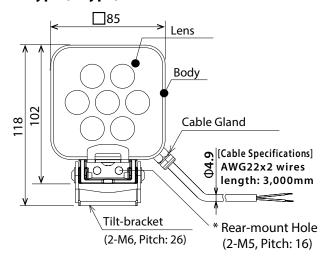
Specifications

Model	CLN-2	4- □ -T	CLN-24-			
Color Code (Color)	CD (Daylight)	CL (Warm White)	CD (Daylight)	CL (Warm White)		
Color Temperature (typ.)	6500K	2700K	6500K	2700K		
Illumination (typ.) (Centered at DC 24V)	1m	820 lx	620 lx	820 lx	620 lx	
Total Luminous Flux (typ.)		550 lm	330 lm	550 lm	330 lm	
Rated Voltage		DC 24V (Polarized)				
Operating Voltage Range		DC 24V ±10%				
Protection Rating	IP66G/67G (JIS C 0920)/69K (DIN 40050 part 9) (excluding Cable ends)					
Mounting Location/Direction		Indoor / Any Direction				
Mass (Tolerance ±10%)		36	60g	4	30g	

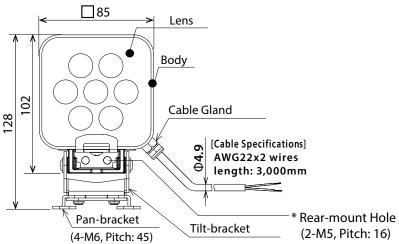
• Rear-mount Type (T/PT Type)



• Tilt Type (T Type)



Pan/Tilt Type (PT Type)



Features



Has tilt adjustment of 180°, and can be folded up to a width of 33mm, making it easier to mount.

Floor Mount Example



Wall Mount Example



Ceiling Mount Example



Pan/Tilt Type (PT Type)





Has tilt adjustment of °180 with a pan angle of °120, and can be folded up to a width of 43mm. Horizontal wall-mounting and free adjustment for any application.

Floor Mount Example



Wall Mount Example Ceiling Mount Example





% The tilt & pan/tilt brackets can also be removed for Rear Attachment applications.





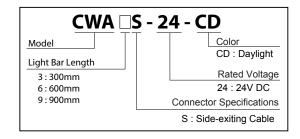
Affordable replacement for flourescent lighting.

An affordable replacement, the slim LED light bar can outperform a conventional fluorescent lamp. The protection rating of IP65 is a standard which allows installation in most common environments.

FEATURES

- Available for DC 24V applications
- · Long-lasting LED's greatly reduce maintenance costs
- Total luminous flux of 350lm, 100lx luminance at 1m (Voltage: DC24V)
- · A set of two stainless-steel mounting brackets is a standard accessory
- Operating temperature range from -30 to +60 degrees C.
- LED color temperature is Daylight (6500K)

How to Order



Specifications

Model		CWA3S-24-CD	CWA6S-24-CD	CWA9S-24-CD		
Luminous Color		Daylight				
Color Temperature (typ.)			6500K			
Illuminance (at DC24V)	1.0m	440 lx	800 lx	990 lx		
Total Luminous Flux (typ.)		350 lm	700 lm	1050 lm		
Operating Voltage Range			24VDC ±10%			
Current Consumption		180mA	360mA	540mA		
Rated Power Consumption	ı	6W	12W	18W		
Operating Ambient Tempe	erature	-30°C - +60°C				
Operating Ambient Humic	dity	90% RH or less, no condensation				
Main Unit Material		Body: Polycarbonate Resin; Packing: Silicon				
Cable Length		3 meters				
Mounting Location		Indoors				
Protection Rating		IP65 (Cable ends not included)				
Insulation Resistance		500V DC 5MΩ or more				
Withstand Voltage		500VAC for 1 minute (Between terminals and screw)				
Vibration Resistance		30Hz 19.6m/s ²				
Mass (Tolerance ±10%)		215g	385g	540g		

Standard Accessory





Highly reliable LED chips are used



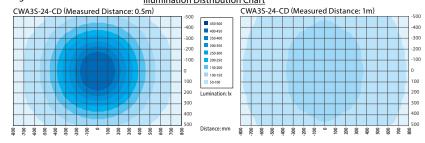
High-definition LED chip

The highly reliable LED chip, which is the core of LED lighting, has nearly 10 times (about 40,000 hours) the lifespan (based on LED brightness of 70%) in comparison to the common fluorescent light, it also does not contain any mercury.

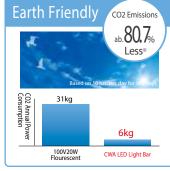
A uniform light that subdues glare

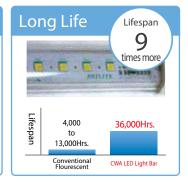
In comparison to an LED luminous source, we take advantage of the straight beam optical characteristic of the LED without dropping brightness or overdoing it, but reproducing a natural light.

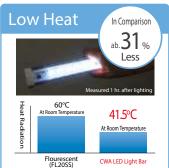
Illumination Distribution Chart



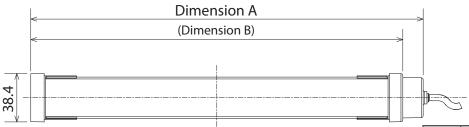




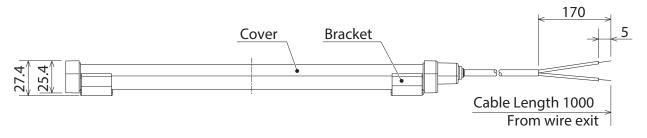




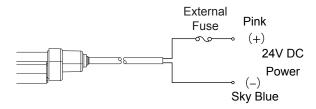
Dimensions (Unit: mm)

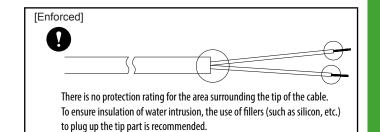


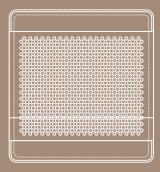
Model	Dimension A	Dimension B		
Name	Total Length	Lighting Area		
CLA3S 315.5		300		
CLA6S	621.0	600		
CLA9S	916.5	900		



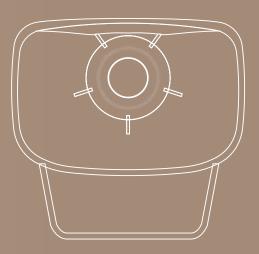
Wiring







Alarm Products



BM

Signal Horn

CE (AC/DC 24V Only)

90dB at 1m (BM-H Type)

2 Channels

P34 (BM-D Front Only)

Ф30

NPN/PNP **Open-collector**



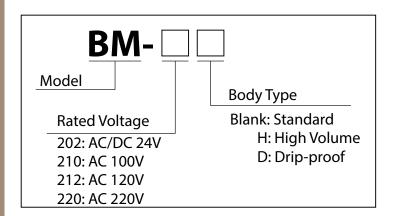


Compact Signal Horn designed to integrate with control panel, switchboard and other production equipment applications.

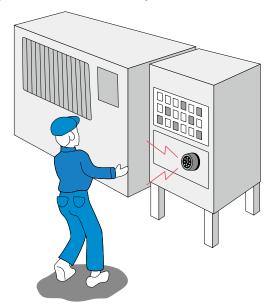
FEATURES

- Built-in Alarm with an audible sound of up to 90dB (at 1m*1).
- · Has two selectable alarm sound patterns.
- Three Types to choose from; Standard (BM), High Volume (BM-H), Drip-proof (BM-D)
- Body is compact and lightweight (100g).
- The 24V type is compatible with NPN and PNP inputs.
- · Has the CE mark and conforms to the requirements for the EC directive. (For AC/DC 24V only.)
- *1 Model BM-H: 90dB (at 1m); Model BM: 85dB (at 1m); Model BM-D: 80dB (at 1m)

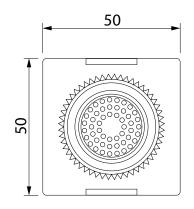
How to Order

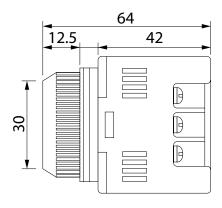


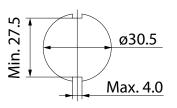
Application Example



Dimensions (Unit: mm)



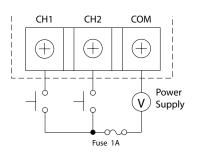




Maximum Panel Thickness: 7

Wiring

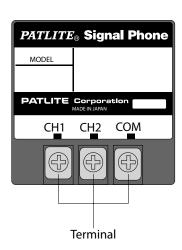
Terminal Bus Input



• Channel Priority

CH1 > Ch2 CH1 has priority when CH2 and CH1 are activated simultaneously

Rear View



External Contact Capacity: No less than 100mA

Auxiliary Input: Voltage Contact

Input Channels: 2

Specifications

Туре	Model	Rated Voltage	Voltage Range	Power Consumption	Max. Volume (at 1m)	Operating Temperature Range	Protection Rating	Mass
	BM -202	AC/DC 24V	AC/DC 22V-26V	0.4W	80dB			
Standard	BM -210	AC 100V	AC 90V-110V	2.5W	85dB			
	BM -220	AC 220V	AC 200V-240V	3.5W	OSUB			
	BM -202H	AC/DC 24V	AC/DC 22V-26V	0.4W	85dB	-10°C - +60°C (RH 85% or less)		100g
High Values	BM -210H	AC 100V	AC 90V-110V	2.514				
High Volume	BM -212H	AC 120V	AC 108V-132V	2.5W	90dB			
	BM -220H	AC 220V	AC 200V-240V	3.5W				
	BM -202D	AC/DC 24V	AC/DC 22V-26V	0.4W	75dB			
Drip-proof	BM -210D	AC 100V	AC 90V-110V	2.5W	80dB		IP34	
	BM -220D	AC 220V	AC 200V-240V	3.5W	oudb			



Audible Alarm







90dB at 1m

4 Channels / 32 Sounds

IP54

□80

Open-collector



The BD Series can play melodies, chimes and alarms with variable audible control and a compact, but loud speaker.

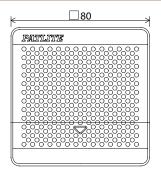
FEATURES

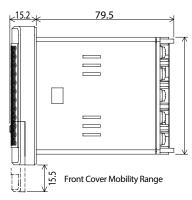
- Maximum output level of 90dB (at 1m) is suitable for use in a noisy factory.
- 32 pre-recorded sounds in one unit to be used for various applications.
- Sound output level and sound group can be selected by rotary switches stored behind the front panel for easier operation, even after installation.
- Select a sound group to playback 4 pre-recorded sounds.
- A new sound group can be created from the 32 sounds by using an optional memory card (sold separately).
- · Compliant with the RoHS directive
- Has the CE mark and conforms to the requirements (for 12V/24V type) for the EC directive.
- Is a UL recognized component (File No. £24210).

AVAILABLE BY SPECIAL ORDER

- Binary input controlled 15 sound playback model.
- · PNP open collector transistor type.

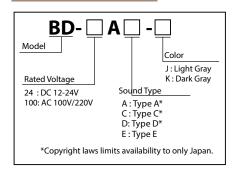
Dimensions (Unit: mm)



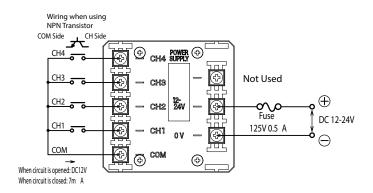


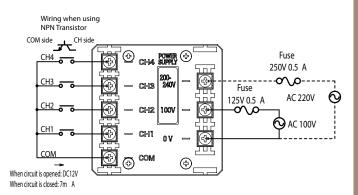


How to Order









Melody List

Туре А			(Japan Only)
Beep (slow intermittent)	Stutter (rapid intermittent)	Bell (clear high-pitch)	Yelp (rapid siren)
Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
Stutter + Bell	Synthesized Melody	Chime	Call Sign
Fur Elise	Maiden's Prayer	Bach Minuet in Gmaj	Annie Laurie
London Bridge is falling down	Hol-di-ri-Dia	Mary had a little Lamb	Camptown Races
Cuckoo Song	Village Blacksmith	On the Bridge of Avignon	Daydream Believer
Amaryllis	Mozart Symphony No. 40	Quiet Lakeside	Ich bin ein Musikante
Spanish Romance	Katyusha	Grandfather's Clock	Ave Maria

Туре D			(Japan Only)
Beep (slow intermittent)	Stutter (rapid intermittent)	Bell (clear high-pitch)	Yelp (rapid siren)
Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
Runner	Mamotte Agetai	Chime	Call Sign
Iribiao Kikinagara	September	Doyoubino Koibito	Akino Kehai
Saafu Tengoku Sukii 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
Schubert'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 Air

Туре С			(Japan Only)
Beep (slow intermittent)	Stutter (rapid intermittent)	Bell (clear high-pitch)	Yelp (rapid siren)
Rapid Hi-Lo	Synthesized Melody	Synthesized Piano	Synthesized Bell
Stutter + Bell	Synthesized Melody Chime	Chime	Call Sign
Can't take my eyes off of you	Top of the World	The Entertainer	Amazing Grace
Amairono Kamino Otome	Les Champs-Elysees	Canon	Rara Sunshine
Uchuusenkan Yamamoto	Oshiete	Makenaide	Gonna Fly Now (Theme from "Rocky")
I don't Wanna Miss a Thing	Yozorano Mukou	Aiwa Katsu	Haruyo Koi
Gattsudaze	Odoru Ponpokorin	Imasugu Kisu Mi	Truth

Туре Е			(Worldwide)
Beep (slow intermittent)	Stutter + Bell	Inverted Reveille	Annie Laurie
Stutter (rapid intermittent)	Synthesized Melody	Galactic Motor	London Bridge is falling down
Bell (clear high-pitch)	Chime	Ringing Phone	Mary had a little Lamb
Yelp (rapid siren)	Call Sign	Two Tone	Camptown Races
Rapid Hi-Lo	Train Ride	Alarm Clock	Amaryllis
Melody Chime	Galloping Hi-Lo	Ringing Hi-Lo	Mozart Symphony No. 40
Synthesized Piano	Alien Chatter	Fur Elise	Ave Maria
Synthesized Bell	Falling Crystals	Bach Minuet in Gmaj	Grandfather's Clock

Specifications

Model	BD-24A 🔲 - 🔲	BD-100A	
Rated Voltage	DC 12V - 24V	AC 100V/AC 220V (50/60Hz)	
Operating Voltage Range	DC 10.8V- 26.4V	AC 100V ±10%/AC 220V ±10%	
Operating Temperature Range	-20°C -	+55°C	
Relative Humidity	85% RH (No C	Condensation)	
Power Consumption	Maximum 4.0W	Maximum 5.5W	
Volume	Adjustable up to a maximum of 90dB (at 1m) when flushmounted. (Volume may be less, depending on surrounding environment and playback sour		
Input Method	Bit Input		
Input Signal Duration	Continuous		
Boot-up Time	Input Voltage: 1 sec. or less Chai	nnel Signal Input: 170msec or less	
Channels	4 Cha	nnels	
Recorded Sound	32 Melodies and Alarm Sounds		
Sound Group	16 Patterns (A to P)		
Protection Rating	IP54 (When flush-mounted, Upright direction Only)		
Vibration Resistance	19.6m/s ²		
Mass (Tolerance ±10%)	160g 180g		

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, please contact the local copyright association for permission before using the product in case this product is used outside of Japan. Melody charts Type-E is recommended for use outside of Japan as this playlist does not include copyrighted music or songs, and permission is not required.



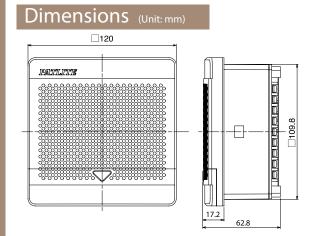
The BK Series can play melodies, chimes and alarms with variable audible control and a compact but loud speaker.

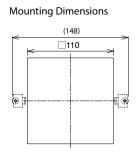
FEATURES

- 32 pre-recorded sounds in one unit to be used for various applications.
- Maximum output level of 95dB (at 1m) is suitable for use in a noisy factory.
- · Rotary switch to easily change sound groups and adjust volume output from the front panel, even after installation.
- Use bit input to select a sound group to playback 8 pre-recorded sounds.
- A new sound group can be created from the 32 sounds by using an optional memory card (sold separately).
- · Compliant with the RoHS directive
- Has the CE mark and conforms to the requirements (for 12V/24V type) for the EC directive.
- Is a UL recognized component (File No. E24210).

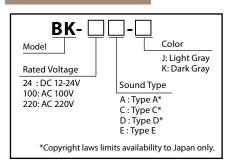
AVAILABLE BY SPECIAL ORDER

• PNP open collector transistor type.

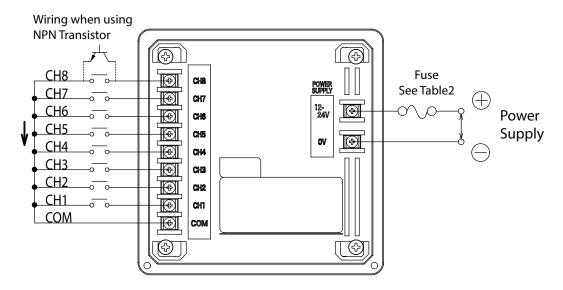




How to Order







Melody List

Туре А			(Japan Only)
Beep (slow intermittent)	Stutter (rapid intermittent)	Bell (clear high-pitch)	Yelp (rapid siren)
Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
Stutter + Bell	Synthesized Melody	Chime	Call Sign
Fur Elise	Maiden's Prayer	Bach Minuet in Gmaj	Annie Laurie
London Bridge is falling down	Hol-di-ri-Dia	Mary had a little Lamb	Camptown Races
Cuckoo Song	Village Blacksmith	On the Bridge of Avignon	Daydream Believer
Amaryllis	Mozart Symphony No. 40	Quiet Lakeside	Ich bin ein Musikante
Spanish Romance	Katyusha	Grandfather's Clock	Ave Maria

Type D			(Japan Only)
Beep (slow intermittent)	Stutter (rapid intermittent)	Bell (clear high-pitch)	Yelp (rapid siren)
Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
Runner	Mamotte Agetai	Chime	Call Sign
Iribiao Kikinagara	September	Doyoubino Koibito	Akino Kehai
Saafu Tengoku Sukii 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
Schubert'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 Air

Туре С			(Japan Only)
Beep (slow intermittent)	Stutter (rapid intermittent)	Bell (clear high-pitch)	Yelp (rapid siren)
Rapid Hi-Lo	Synthesized Melody	Synthesized Piano	Synthesized Bell
Stutter + Bell	Synthesized Melody Chime	Chime	Call Sign
Can't take my eyes off of you	Top of the World	The Entertainer	Amazing Grace
Amairono Kamino Otome	Les Champs-Elysees	Canon	Rara Sunshine
Uchuusenkan Yamamoto	Oshiete	Makenaide	Gonna Fly Now (Theme from "Rocky")
I don't Wanna Miss a Thing	Yozorano Mukou	Aiwa Katsu	Haruyo Koi
Gattsudaze	Odoru Ponpokorin	lmasugu Kisu Mi	Truth

Type E		(Worldwide)	
Beep (slow intermittent)	Stutter + Bell	Inverted Reveille	Annie Laurie
Stutter (rapid intermittent)	Synthesized Melody	Galactic Motor	London Bridge is falling down
Bell (clear high-pitch)	Chime	Ringing Phone	Mary had a little Lamb
Yelp (rapid siren)	Call Sign	Two Tone	Camptown Races
Rapid Hi-Lo	Train Ride	Alarm Clock	Amaryllis
Melody Chime	Galloping Hi-Lo	Ringing Hi-Lo	Mozart Symphony No. 40
Synthesized Piano	Alien Chatter	Fur Elise	Ave Maria
Synthesized Bell	Falling Crystals	Bach Minuet in Gmaj	Grandfather's Clock

Specifications

Model	BK-24 	BK-100 ☐	BK-220 	
Rated Voltage	DC 12V-24V	AC 100V (50/60Hz)	AC 220V (50/60Hz)	
Operating Voltage Range	DC 10.8V- 26.4V	AC 100V ±10%	AC 220V ±10%	
Operating Temperature Range		-20°C - +50°C	,	
Relative Humidity	3	35% RH (No Condensation)	
Power Consumption	Maximum 12W	Maximum 10W	Maximum 11W	
Volume	Adjustable up to a maximum of 95dB (at 1m) when flushmounted. (Volume may be less, depending on surrounding environment and playback sound)			
Input Method	Bit Input, Binary Input			
Input Signal Duration		Continuous		
Boot-up Time	Input Voltage: 1 sec.	or less Channel Signal In	put: 170msec or less	
Channels	Bit: 4	Channels; Binary: 32 Cha	nnels	
Recorded Sound	32 Melodies and Alarm Sounds			
Sound Group	16 Patterns (A to P)			
Protection Rating	IP54 (When flush-mounted, Upright direction Only)			
Vibration Resistance	45m/s ² 19.6m/s ²		m/s ²	
Mass (Tolerance ±10%)	350g	530g		

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, please contact the local copyright association for permission before using the product in case this product is used outside of Japan. Melody charts Type-E is recommended for use outside of Japan as this playlist does not include copyrighted music or songs, and permission is not required.





Melody/Alarm Horn







110_{dB at 1m}

32 Channels (Binary)

IP65

NPN/PNP Open-collector

Cable





Exceptional Sound Quality Field Programmable Melody/Alarm Horn

FEATURES

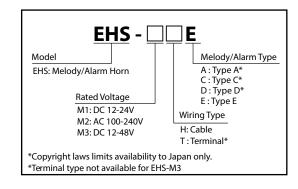
- EHS comes with 32 preloaded melody and alarm sounds with adjustable volume up to 110dB (at 1m).
- Ideal for plant-wide notification, public address and process control.
- · Robust, indoor and outdoor use with vibration resistance up to 4.5G.
- Protection Rating of IP65.
- UL464, CSA-C22.2 NO.205-M1983, FCC Part 15 Subpart B Class 4.
- CE, RoHS Compliant (EHS-M1 Only).

EHS vs EHV (Functionality Comparisons)

Model	Onboard Sounds	MP3 Playback	Playback Modes	No. of Playback Channels
EHS	32 Sounds	No	1 Mode	8 ch Bit Input/ 32 ch Binary Input
EHV	63 Sounds	Yes*	4 Modes	8 ch Bit Input/ 63 ch Binary Input

^{*} Internal Memory size of 2 Mbytes, maximum playback of 220 seconds at a 64kbit/sec rate

How to Order



Specifications

EHS

Model	Rated Voltage	Voltage Range	Power Consumption	Sound Pressure	Operating Temperature Range	No. of Playback Messages	Protection Rating	Wiring Type	Mass
EHS- M1H	DC 12 - 24V	DC 10.8V to 35V	5.0W (DC24V NPN, Non-voltage Contact)					Cable	1.25kg
EHS- M1T	DC 12 - 24V	DC 10.8V to 33V	5.9W (DC24V PNP, Voltage Contact)	l	2005 . 2005			Terminal	1.23Kg
EHS- M3H	DC 12 - 48V	DC 10V to 60V	5.1W (DC48V NPN, Non-voltage Contact)	Alarm: Max. 110dB (at 1m)	-20°C to +50°C (85% RH or less)	Bit Input: 8 Binary Input: 32	IP65	Cable	1.15kg
EHS- M2H	AC 100 - 240V	AC 90V to 264V	6.9W (AC240V NPN, Non-voltage Contact)		, , , , , , , , , , , , , , , , , , , ,	, ,		Cable	1.25kg
EHS- M2T	AC 100 - 240V	AC 90V (0 204V	6.9W (AC240V NPN, Non-Voltage Contact)					Terminal	1.23kg

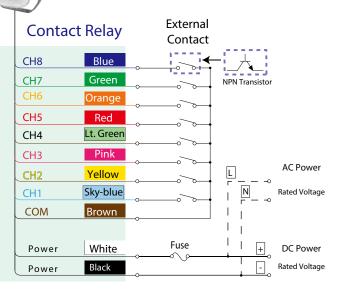
Notes:

- The sound pressure level is based on measurements under controlled conditions (voice-synthesized 1 kHz sine wave played back from a distance of 1 meter), therefore the surrounding environmental conditions and message content will result in different values for the sound pressure level.
- Even when starting two or more units simultaneously, a lag will occur during message playback.
- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

Wiring

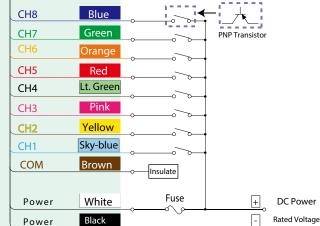
Non-voltage (NPN) Wiring



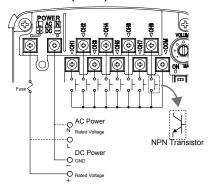


PNP Wiring

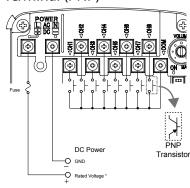




Terminal (NPN)



Terminal (PNP)



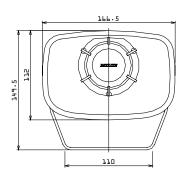
Transistor Capacity (NPN & PNP)					
Current Capacity	$I_{c} \geq 15mA$				
Current Leakage	$I_L \leq 0.1 \text{mA}$				
Withstand Voltage	V _C ≥ 35V				
ON Voltage(V _{sat})	Less than 1V				

Recommended Fuse			
Rated Voltage 250V			
Rated Current	1A		
Fuse Type	Standard		

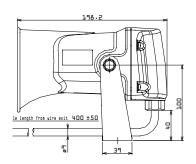
Maximum Inrush Current			
EHm1	12.5A		
EHM2	23.0A		
EH -M3	45.0A		

Dimensions (Unit: mm)

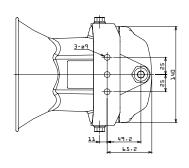
Front View

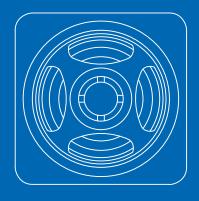


Side View

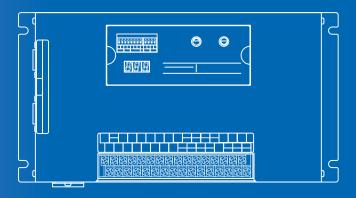


Underside View





Voice & Sound

















STEP 1

Get the New Playlist Editor 2

The Playlist Editor 2 is free from PATLITE. Download the PATLITE Playlist Editor 2 from our Global Home Page, or contact us by E-mail, which can be located on the back of this catalog.

STEP 2

Get the Recommended SD Card (Model SDV-2GP)

The SDV2-GP is an SD Card approved and supplied by PATLITE. (The PATLITE Corporation is a member of the SD Card Association.)

STEP 3

Create the MP3 messages

Convert any message into MP3 data.

(Remove "ID3" tags and be sure the sample rate is the standard rate of 64kb/sec for PATLITE products and the SD Card is formatted for "FAT16".)

STEP 4

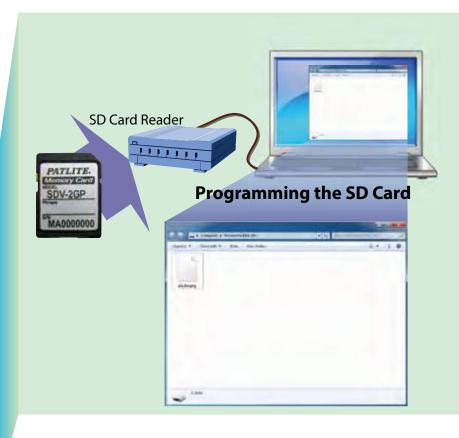
Save the MP3 messages on the SD Card

Use the Playlist Editor 2 to create a playlist and save it on an SD Card. (Refer to the product manual for detailed information)

STEP 5

Load the MP3 Data into the Product

Programming can be done right out in the field! Insert the SD Card into the Product's SD Card slot and listen for the Beep that tells it's programming (Refer to the product manual for detailed information on programming).



Create any Playlist using Playlist Editor2 With PATLITE's downloadable Playlist Editor2 from the Web, and most Windows OS software; Playlist Editor 2 Overview 1. Decide on the sounds and messages for

- Channels and Phrases
- 2. Start the Software.



- 1. Insert the sound or message files into appropriate channels and
- phrases

 2. Save as "playlist.slp" after all files are
- 3. The playlist creation is completed.

Get the Necessary Items:

- 1. An SD Card to save the data onto for rewriting (Recommended Parts: option part SDV-2GP)
- 2. Personal Computer with all hardware operating normally.
- 3. SD card reader/writer (if one is not built inside the personal computer)
- 4. Application Software (PATLITE Playlist Editor 2)
- Corresponding OS: Windows® XP, Windows Vista™ 32 bits/64 bit, Windows® 7 32bit/64 bit, Windows® 8 32bit/64 bit.
- * Writing data onto the SD Card with a computer can be done without the PATLITE Playlist Editor 2, but some functions may be limited. (Refer to the product manual for mor-e details)

Example (EHV)

- 1. Remove the cover to access the SD Card Slot. (Refer to the product manual for more details)
- 2. After inserting the SD Card with the stored data into the slot, a high-low beep will sound to indicate rewriting has begun.
- 3. When a short beep sound is heard, it indicates the rewriting sequence is complete and the SD Card can be removed from the slot.
- * Rewriting should be completed within 60 seconds. The rewriting is not successfully completed if beeping sounds other than indicated above are heard, or when there is no response (Refer to the product manual for more details). In addition, if the volume has been minimized, the beeping sounds cannot be heard.
- 4. Playback the channels to verify the rewriting has been successful. (Refer to the product manual for more details)

Table: Corresponding Application Software

Application Software	Usable	Outline	
PATLITE Playlist Editor 2	All PATLITE Products	This is a newer version of the PATLITE Playlist Editor. A playlist package can be created and the MP3 data and channel function assignment for the product can be rewritten.	
FV-Win	Limited PATLITE Products	This product is not compatible with the playlist created by	
PATLITE Playlist Editor	(Products prior to the EHV)	FV-Win or the PATLITE Playlist Editor. However, the play can be changed into a playlist package using the PATLIT Playlist Editor 2.	

Caution

FV-Win or the PATLITE Playlist Editor can only be used with certain models, but the PATLITE Playlist Editor 2 will work with all PATLITE products.

Please

- It is recommended to use Model SDV-2GP (sold separately). Proper operation is not guaranteed with other SD Cards.
- When inserting the SD Card into the slot, be sure to insert it in the proper direction and do not forcibly insert the card. Failure to comply will result in damage to the SD Card and/or product.
- Avoid the intrusion of any foreign substances from entering the card slot.
- While rewriting the messages, do not disconnect power or remove the SD Card.

Note

- If the SD Card was inserted during message playback, the rewriting procedure will commence soon after the message completes its playback.
- During the message rewrite, any signal inputs on the Audio Input line will be ignored.

BDV

Voice Annunciator



87_{dB at 1m}

15 Channels (Binary)

63 Seconds

P54_(Upright Only)

□80

NPN Open-collector

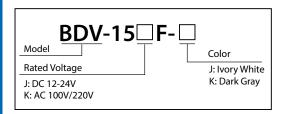


Excellent sound quality with MP3 playback! This panel-mounted MP3 voice annunciator uses SD cards*, allowing messages to be changed easily. (*Recommended: SDV-2GP)

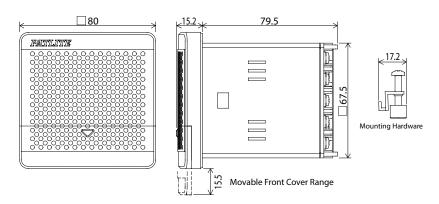
FEATURES

- · Only Flush-mounting style available.
- Able to produce a loud sound of up to 87 dB (at 1m) despite its compact size
- A volume control on the front panel provides an easy way to adjust the sound volume.
- The use of an SD card allows message changes without uninstalling the device.
- Environmentally friendly since the unit complies with the EU RoHS Directives.
- · Several playback modes are available for various applications.
- Includes binary input as a standard option for selecting up to 15 messages.
- Supports input selection using NPN open-collector transistor.
- The unit complies with EU Directives and includes the CE mark (BDV-15JF only)
- Two colors are available for selecting the best color match for the installation.
- Protection rating: IP54 (only the front panel when flush-mounted)

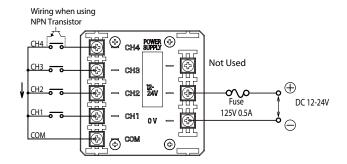
How to Order

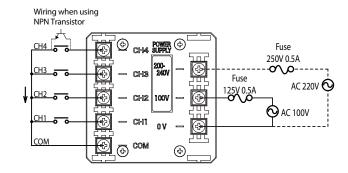


Dimensions (Unit: mm)



Wiring Diagram





Playback Modes

Mode Selector Switch

Several playback modes for a combination of applications.

A Bit Input Mode Plays back up to 4 messages using Channels 1 to 4.

Binary Input Plays back up to 15 messages using Mode Channels 1 to 4.

Bit Input/ Plays back up to 3 messages using Channels Volume 1 to 3. When Channel 4 receives an input, Reduction Mode the volume is reduced by about -10dB.

Binary Input/ Plays back up to 7 messages using Channels 1 to 3. When Channel 4 receives an input, Reduction Mode the volume is reduced by about -10dB.

Bit Input/ E Priority Message Playback Mode

Plays back up to 7 messages using Channels 1 to 3. If a message input occurs during playback of another message, the message will stop and allow the input message to play back.

Binary Input/
Priority Message
Playback Mode

Plays back up to 15 messages using Channels 1 to 4. If a message input occurs during playback of another message, the message will stop and allow the input message to play back.

Bit Input/ G Hold Message Playback Mode Plays back up to 4 messages using Channels 1 to 4. As long as the input is held on, the message is played back, once the input is removed, the message playback stops.

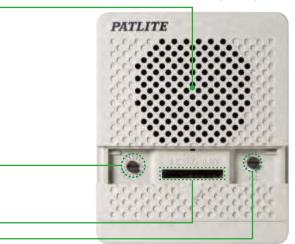
Binary Input/ H Hold Message Playback Mode Plays back up to 15 messages using Channels 1 to 4. As long as the input is held on, the message is played back, once the input is removed, the message playback stops.

Test Playback
Mode

Plays back Message No. 1

Up to 87dB (at 1m)

Despite its slim appearance, it is able to produce a maximum of 87dB (at 1m). (Actual sound level will depend on sound type and surrounding operating conditions.)



Volume Control

The volume is easily accessable from the front for adjustment.

Memory Card Slot

With an SD Card, messages can be changed while the unit is still mounted.

Options

PATLITE Playlist Editor 2 (Free Download) SD Card (2 GB) SDV-2GP

(OS: Windows® 2000/XP/Vista/Windows 7/Windows 8)

- > The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.
- > The SD Card does not contain any data.



Specifications

Model	Rated Voltage	Operating Voltage Range	Power Consumption	Sound Level (Max.)	Voice File	Operating Temperature Range	Maximum Playback Time	No. of Playback Inputs	Protection Rating	Mass
BDV-15JF	DC 12-24V	DC 10.8V - 26.4V	4W	87dB*	MPEG- Audio Layer (MP3)	-10 - +50°C		Bit: 4	IP54	220g
BDV-15KF	AC 100/220V	AC 100V ±10% AC 220V±10%	5W	(at 1m)	Standard Bit Rate: 64kb/s Fs=44.1kHz	(RH less than 85%)	63 sec.		(Panel Mount)	340g

Notes:

- Actual sound level will depend on sound type and surrounding operating conditions.
- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

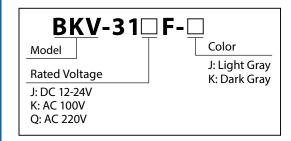




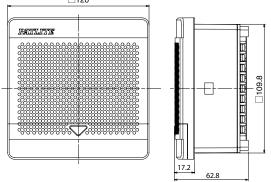
Excellent sound quality with MP3 playback! This panel-mounted MP3 voice annunciator uses SD cards,* allowing messages to be changed easily. (*Recommended: SDV-2GP)

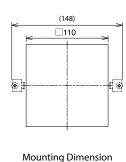
- · Only Flush-mounting style available.
- Able to produce a loud sound of up to 87 dB (at 1m) despite its compact size
- A volume control on the front panel provides an easy way to adjust the sound volume.
- The use of an SD card allows message changes without uninstalling the device.
- Environmentally friendly since the unit complies with the EU RoHS Directives.
- Several playback modes are available for various applications.
- Includes binary input as a standard option for selecting up to 15 messages.
- Supports input selection using NPN open-collector transistor.
- The unit complies with EU Directives and includes the CE mark (BKV-15JF only)
- Two colors are available for selecting the best color match for the installation.
- Protection rating: IP54 (only the front panel when flush-mounted)

How to Order



Dimensions (Unit: mm) □120 PATOLICOS





Playback Modes

Mode Selector Switch

Several playback modes for a combination of applications.

Α	IKIT INNI IT WIAAA	Plays back up to 5 messages using Channels 1 to 5.
---	--------------------	--

- Binary Input Mode Plays back up to 31 messages using Channels 1 to 5.
- Bit Input/ Plays back up to 4 messages using Channels
 Volume 1 to 4. When Channel 5 receives an input,
 Reduction Mode the volume is reduced by about -15dB.

Binary Input/Volume Reduction Mode Plays back up to 15 messages using Channels 1 to 4. When Channel 5 receives an input, the volume is reduced by about -15dB.

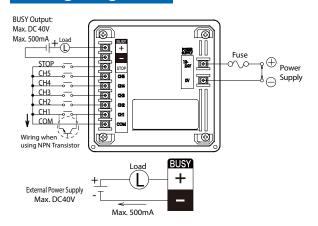
Bit Input/ Priority Message Playback Mode Playback Up to 5 messages using Channels 1 to 5. If a message input occurs during playback of another message, the message will stop and allow the input message to play back.

- Plays back up to 31 messages using Channels
 1 to 5. If a message input occurs during
 playback Mode
 Plays back up to 31 messages using Channels
 1 to 5. If a message input occurs during
 playback of another message, the message
 will stop and allow the input message to
 play back.
- Bit Input/
 Hold Message
 Playback Mode

 Plays back up to 5 messages using Channels
 1 to 5. As long as the input is held on, the
 message is played back, once the input is
 removed, the message playback stops.
- Binary Input/
 H Hold Message
 Playback Mode

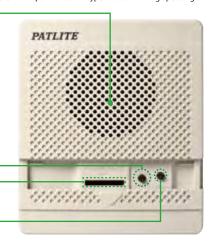
 Plays back up to 31 messages using
 Channels 1 to 5. As long as the input is held
 on, the message is played back, once the
 input is removed, the message playback
 stops.
- Test Playback Mode Plays back Message No. 1

Wiring Diagram



Up to 95dB (at 1m)

Despite its slim appearance, it is able to produce a maximum of 87dB (at 1m). (Actual sound level will depend on sound type and surrounding operating conditions.)



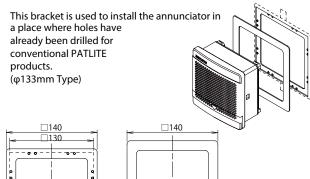
Volume Control

The volume is easily accessable from the front for adjustment.

Memory Card Slot

With an SD Card, messages can be changed while the unit is still mounted.

Optional Bracket (BK-001)



Protrusion for positioning

Options

PATLITE Playlist Editor 2 (Free Download)

SD Card (2 GB) SDV-2GP

(OS: Windows® 2000/XP/Vista/Windows 7/Windows 8)

- > The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.
- > The SD Card does not contain any data.



Specifications

Model	Rated Voltage	Operating Voltage Range	Power Consumption	Sound Level (Max.)	Voice File	Operating Temperature Range	Maximum Playback Time	No. of Playback Inputs	Protection Rating	Mass
BKV-31JF	DC 12-24V	DC 10.8V - 26.4V	9W	05-10	MPEG- Audio Layer (MP3)	10 . 5000		D:+ E	IDE 4	350g
BKV-31KF	AC 100V	AC 100V ±10%	10W	95dB (at 1m)	Standard Bit Rate: 64kb/s	-10 - +50°C	63 sec.	Bit: 5 Binarv: 31	IP54 (Panel Mount)	F20=
BKV-15KF	AC 220V	AC 220V ±10%	1000	(αι 1111)	Fs=44.1kHz	(11111633 (118116370)		Diriary. 31	(i ariei Mourit)	530g

- Notes: Actual sound level will depend on sound type and surrounding operating conditions.
 - MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

BSV









Voice Annunciator



87_{dB at 1m}

15 Channels (Binary)

63 Seconds

P54_(Upright Only)

□75

NPN/PNP Open-collector



The unbelievably thin design for tighter installations.

FEATURES

- Sound reduction is made with just one signal input. (Using the sound reduction function reduces the number of playback messages.)
- Diverse operational modes in combination with commands can be setup for the right application.
- The use of the SD card can allow changing messages while out in the field.
- Protection Rating of IP54 (Only for front panel mount attachment).
- Despite the thin shape, it has a maximum output of 87dB (at 1m).
- It complies with Europe's environment-friendly RoHS Directive.
- Can be used with transistor driven inputs. (Either NPN or PNP)
- · A compact design with only a thickness of 19.9mm.
- · Two installation choices of panel or wall mount.
- · The volume control is accessible from the front.
- Listed by Underwriters Laboratories Inc.
- Conforms to the CE requirements.



With the built-in SD card slot, MP3 data rewriting can be done with an SD card. In addition, rewriting or editing MP3 data files is possible with or without the exclusive PATLITE Playlist Editor 2 Application software.

Easy installation from the front.

With only the need to access the front cover, reduction in labor time and maintenance is simpler with easily removing the front cover for installation and volume adjustment, etc.





Easy turn of the screw to lock!



Options

PATLITE Playlist Editor 2 (Free Download)

SD Card (2 GB) SDV-2GP

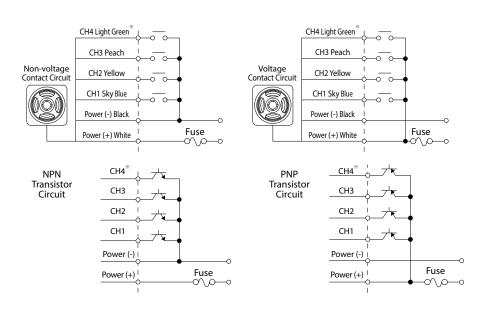
(OS: Windows® 2000/XP/Vista/Windows 7/Windows 8)

- > The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.
- $\,>\,$ The SD Card does not contain any data.



Dimensions (Unit: mm)

Wiring





Panel Mount

Wall Mount



Specifications and How to Order

Specifications																				
Model	Transistor Type	Rated Voltage	Operating Voltage Range	Power Consumption	Sound Level	Operating Temperature Range	Max.Playback Time	Playback Channels	Protection Rating	Mass	Front Cover Color	Recorded Data								
BSV-24NM-W/D						J 3 .					Off white (-W) Dark Gray (-D)	Voice								
BSV-24NM-S	NPN Transistor	DC 12-24V									Silver (-S)	Voice								
BSV-24N-W/D	Transistor		DC	DC			Max. 87dB			4 (Bit Input) 15 (Binary Input)	IP54		Off white (-W) Dark Gray (-D)	Alarm						
BSV-24N-S					DC	DC	DC	DC	DC	DC	DC	DC	DC10.8V to	3.5W	(at 1m)	-10°C to +50°C (RH 85% or less)	63sec.	*When using the Sound Reduction	(Only for Panel	100g
BSV-24PM-W/D					1kHz Sine Wave		oosec.	Function, the inputs become:	Upright Position)	±10%	Off white (-W) Dark Gray (-D)	Voice								
BSV-24PM-S	PNP Transistor								3 (Bit Input) 7 (Binary Input)	with IEC 60529		Silver (-S)	Voice							
BSV-24P-W/D	Transistor										Off white (-W) Dark Gray (-D)									
BSV-24P-S											Silver (-S)	Alarm								
BSV-24			_	Transistor Ty N : NPN Tran P : PNP Tran	sistor	2 Playback Time L: 520 sec. Blank: 63 sec.	_ B	Registered Messa Rank : None (15 A 1 : Pre-recorded I	Jarm Sounds)	W: D:	nt Cover Color Off white Dark Gray Silver									

Notes:

- Actual sound level will depend on sound type and surrounding operating conditions.
- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing.
- ☐ The method for data rewriting when not using the exclusive application software:











MP3 Alert/Melody/Alarm Horn







110_{dB} at 1m

63 Channels (Binary)

IP65

NPN/PNP **Open-collector**

Cable





Exceptional Sound Quality Field-programmable MP3 Alarm

FEATURES

- EHV comes with 63 binary channels with adjustable volume up to 110dB (@ 1m).
- EHV offers a field-programmable MP3 function with a maximum of 220 sec. of recording time (@ 64bps), ideal for plant-wide notification and process control.
- Robust, indoor and outdoor use with vibration resistance up to 4.5G, ideal for public address.
- Compliant to UL464 (EHV-M3 Not Included), CSA-C22.2 NO.205-M1983, FCC Part 15 Subpart B Class 4.
- Protection Rating of IP65 and CE (EHV-M2 Not Included), RoHS Compliant.

EHS vs EHV (Functionality Comparisons)

Model	Onboard Sounds	MP3 Playback	Playback Modes	No. of Playback Channels
EHS	32 Sounds	No	1 Mode	8 ch Bit Input/ 32 ch Binary Input
EHV	63 Sounds	Yes*	4 Modes	8 ch Bit Input/ 63 ch Binary Input

^{*} Internal Memory size of 2 Mbytes, maximum playback of 220 seconds at a 64kbit/sec rate

4 Playback Modes

Normal Playback

Designated audio message is played back by distinctive signal input. Audio message is played back once in case of one shot input, and audio message is repeated when the signal is input continuously.

Memory Playback

Up to 23 audio message inputs can be memorized in order of input. After one playback is finished, the next memorized audio message will be played back. The inputs exceeding the limit will not be memorized.

Latest Input Priority Playback

When a signal is input during a message playback, the current message playing back will be stopped, and the message of the signal input will be played instead.

How to Order

Model

EHV: MP3 Alert Horn

Rated Voltage

M1: DC 12-24V

M3: DC 12-48V

M2: AC 100-240V

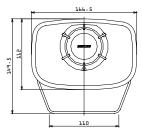
EHV - 🗀

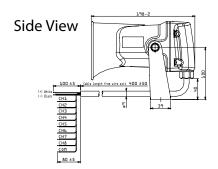
Momentary Playback

Audio message is played back only while the signal input is maintained. Playback will be stopped when the signal input is stopped.

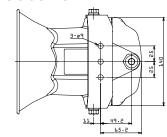
Dimensions (Unit: mm)

Front View





Underside View



Melody/Alarm Type

G: Type G

Wiring Type

T:Terminal*

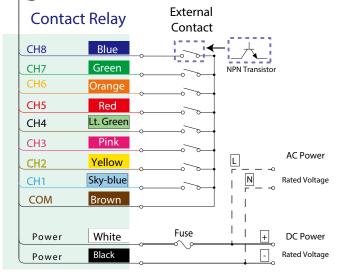
H: Cable

*Terminal type not available for EHV-M3



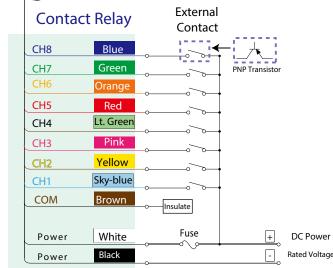
Wiring

Non-voltage (NPN) Wiring

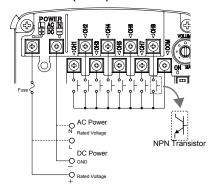


PNP Wiring

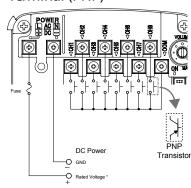




Terminal (NPN)



Terminal (PNP)



Transistor Capacity (NPN & PNP)					
Current Capacity	$I_{c} \geq 15mA$				
Current Leakage	I _L ≤ 0.1mA				
Withstand Voltage	V _C ≥ 35V				
ON Voltage(V _{sat})	Less than 1V				

Recommended Fuse						
Rated Voltage	250V					
Rated Current	1A					
Fuse Type	Standard					

Maximum Inrush Current					
EH <u></u> -M1	12.5A				
EHm2	23.0A				
ЕНмз	45.0A				

Specifications

EHV

Model	Rated Voltage	Voltage Range	Power Consumption	Sound Pressure	Operating Temperature Range	No. of Playback Messages	Protection Rating	Wiring Type	Mass	
EHV- M1H	DC 12 - 24V	DC 10.8V to 26.4V	4.0W (DC24V NPN, Non-voltage Contact)					Cable	1.25kg	
EHV- M1T	DC 12 - 24V	DC 10.8V to 26.4V	5.0W (DC24V PNP, Voltage Contact)	Alarm: Max. 110dB (at 1m)				Terminal	1.23Kg	
EHV- M3H	DC 12 - 48V	DC 10V to 60V	5.6W (DC48V NPN, Non-voltage Contact)	,	-20°C to +50°C (85% RH or less)	Bit Input: 8 Binary Input: 63	IP65	Cable	1.15kg	
EHV- M2H	AC 100 240V	AC 001/4- 2641/	F 2W/AC240VAIDNI Niere welferen Certer et	MP3: Max. 105dB (at 1m)	,,	Smary mpan os		Cable	1 251	
EHV- M2T	AC 100 - 240V	AC 90V to 264V	5.3W (AC240V NPN, Non-voltage Contact)	5.399 (ACZ409 INPIN, INON-VOITage Contact)	Wax. 1030D (at 1111)				Terminal	1.25kg

Notes:

- The sound pressure level is based on measurements under controlled conditions (voice-synthesized 1 kHz sine wave played back from a distance of 1 meter), therefore the surrounding environmental conditions and message content will result in different values for the sound pressure level.
- Even when starting two or more units simultaneously, a lag will occur during message playback.
- $\hbox{-} MPEG\ Layer-3\ audio\ coding\ technology\ licensed\ from\ Fraunhoffer\ IIS\ and\ Thompson\ Licensing$

Get the Playlist Editor 2 (free from PATLITE)

- Contact us by E-mail located on the back of this catalog.
- Convert any message into MP3 data and save it onto an SD Card (with the use of the Playlist Editor 2).
- Insert the SD Card into a PATLITE MP3 product for easy programming.

Application Software	Usable	Outline
PATLITE Playlist Editor 2	Yes	This is a newer version of the PATLITE Playlist Editor. A playlist package can be created and the MP3 data and channel function assignment for the product can be rewritten.
FV-Win	No	This product is not compatible with the
PATLITE Playlist Editor	No	playlist created by FV-Win or the PATLITE Playlist Editor. However, the playlist can be changed into a playlist package using the PATLITE Playlist Editor 2.

FV-127JP







MP3 File Playback Circuit Board



127 Channels (Binary)

8 Minutes

24VDC

NPN Open-collector



Audio messages can be registered up to 127 channels, ideal for various equipment or facility purpose where the audio message assistance is required.

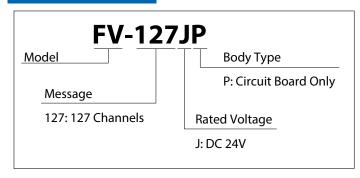
FEATURES

- High quality sound and long playback time.
- MP3 compressed audio file format enables long playback time and high quality sound.
- Approximately eight minutes worth of audio messages can be stored in the onboard memory.
- Capable of 240 minutes of message playback when using an SD card as external memory. (MP3 data at standard 64kbit/s rate and 128Mb SD Card)
- · Audio messages can be overwritten and reprogrammed with the Playlist Editor 2 (free download) and optional SD Card.
- Data stored in the onboard memory can be extracted to the SD Card.
- 3 sound reduction levels of -10dB, -20dB and -30dB (at 1m) can be controlled by an external signal.
- · Five different playback modes are available

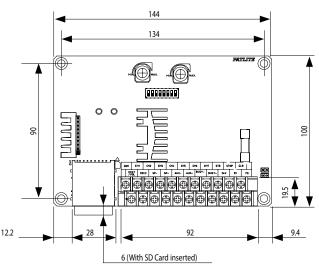
NOISE REDUCTION FEATURES

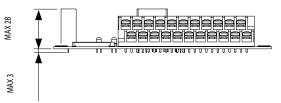
- Input delay can be selected (10ms or 50ms) to reduce noise
- Extending the delay to input a signal reduces noise
- Another noise countermeasure can include setting jumper pins OTHER FEATURES
- Terminal block to provide safe and secure wire connections.
- Selectable speaker output (2W or 4W), AUX and BUSY Output terminals.
- Operating voltage range is from 19V to 29V DC (Rated Voltage: 24V DC)
- This product is compliant with the RoHS directive (DIRECTIVE 2002/95/EC)

How to Order



Options PATLITE Playlist Editor 2 (Free Download) (OS: Windows* 2000/XP/Vista/Windows 7/Windows 8) The new PATLITE Playlist Editor 2 is required to change the audio message data for this product. The SD Card does not contain any data.





Playback Modes

Normal Playback Designated audio message is played back by distinctive signal input. Audio message is played back once in case of one shot input, and audio message is repeated when the signal is input continuously.

Memory Playback Up to 23 audio message inputs can be memorized in order of input. After one playback is finished, the next memorized audio message will be played back. The inputs exceeding the limit will not be memorized.

Latest Input and Greater Channel Priority Playback When the signal for a greater channel number is input during the message playback, the audio message being played back will be stopped, and previous audio message input will be played back. When the signal for the same or smaller channel number is input, the signal will not be accepted.

Momentary Playback Audio message is played back only while the signal input is maintained. Playback will be stopped when the signal input is stopped.

Latest Input Priority Playback When the signal is input during the message playback, the audio message being played back will be stopped, and the previous audio message input will be played back.

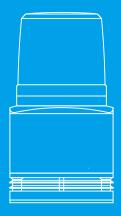
Specifications

	General Specifications				
Model Name	FV-127JP				
Rated Voltage	DC 24V				
Operating Voltage Range	DC 19 to 29V				
Wiring Method	M3 Terminal Bus				
Power Consumption	Maximum 15W (1*)				
Operating Temperature Range	-10 to 50°C				
Storage Temperature	-40 to 80°C				
Relative Humidity	85% RH or less				
Operating Environment	Built-in Type Only				
Installation Method	4 Screw Tie-down				
Vibration Resistance	45m/s2 (30Hz forward and back/Left and right for 2hrs., up and down for 4hrs.)				
Mass	160g ±10%				
Outer Dimensions	144×100×28 [mm] (Lead Wires and Mounting Posts not included)				
	Audible Specifications				
Replay Message Number	For Binary: 127 For Bit Input: 7				
Audio File Format	MPEG1-Audio Layer: (MP3)				
Bit Rate	32kbit/s; 64kbit/s(Standard); 128kbit/s Fs=44.1kHz				
Maximum PlaybackTime	On-board Memory (4MB): About 8 min (Recorded with standard bit rate) External Memory (SD Card): With 128MB about 240 min. (Standard Bit Rate Recording)				
On-board Memory Size	4,360,191byte				
Audio Start-up Time	About 260ms (When sound mute not added at beginning and end of messages)				
Audio Pause Time	Unless specified, 100ms sound mute added at beginning and end of messages				
Compatable Memory Card	SD Card Recommended Part No.: SDV-2GP (Sold Separate)				
Card Format	FAT16				
Audio Rewrite Capability	Use with Patlite Playlist Editor 2 (Free Download) and an SD Card				
Audio Rewrite Time	About 180 sec. (When changing the 4MB on-board memory)				
	Input / Output Specifications				
Signal Input Section	CH1, CH2, CH3, CH4, CH5, CH6, CH7, STB, CLR, STOP, DEC1/VOL, DEC2				
Signal Input Priority	CLR Input > STOP Input > CH Input (Larger Channel takes Priority)				
Sound Reduction Input	Speaker/AUX Output: Three Sound Reduction Levels of -10dB, -20dB, -30dB (1*)				
Input Hold Time	More than 10ms or 50ms (Changeable Settings)				
Signal Input Type	Non-voltage contact or NPN Open Collector				
Speaker Output	8Ω compatable speaker of 4W or more, or 8Ω compatable speaker of 2W or more (Switchable Setting)				
Maximum SoundPressure	Speaker Output at 4W: 105 dB; at 2W: 102dB (2*)				
AUX Output	0dBV 600Ω (Adjustable with Volume Control or Sound Reduction Input)				
BUSY Output	Maximum DC40V, 500mA				

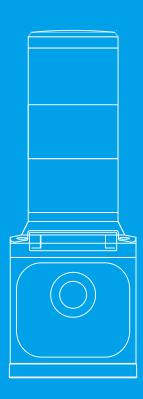
^{(1*) 1}kHz Sine Wave Data Playback at -6dB

- This product complies with the RoHS directive (DIRECTIVE 2002/95/EC)
- Actual sound level will depend on sound type and surrounding operating conditions.
- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

^(2*) At 1m with 1kHz Sine Wave Data Playback and SPW-5E Speaker (Sold Separate) Notes:



Hybrid Products



LKEH









MP3 Voice Annunciator & LED Signal Tower











32 Alarm Sounds

105_{dB at 1m}

IP53

(LED) **Ø100**

Open-collector





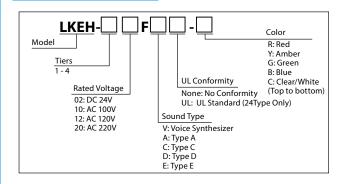


Get the attention you need with the PATLITE fieldprogrammable LKEH Series Hybrid Signal Tower with audible alarm.

- The pre-recorded type offers 32 sounds in one unit with 8 bit input and 32 binary input channel capability.
- The message capacity for the LKEH-FV is 63 seconds (64kbit/s) with 5 bit input and 31 binary input channel capability.
- The LKEH-FV is field-programmable with an SD Card (sold separately).
- Visible from great distance with ultra-bright LEDs and 100 diameter lens.
- A 2G vibration resistant design allows safe use in a high-vibration environment.
- One common wire makes it easy to control both the audio and LED inputs.
- Volume is adjustable from 0 to 105dB (at 1m) to fit various environments.
- Compliance with the RoHS Directives makes it environmentally friendly. • Complies with EU directives and includes the CE mark (for 24V type).
 - AVAILABLE BY SPECIAL ORDER

- PNP open collector transistor type.
- AC 120V type
- UL Listed (File No. E215660, for 24V type only).

How to Order



Insert an SD Card into the slot **Ultra-bright LED** Attention Atención Aufmerksamkeit 105dB **Output** (at 1m)

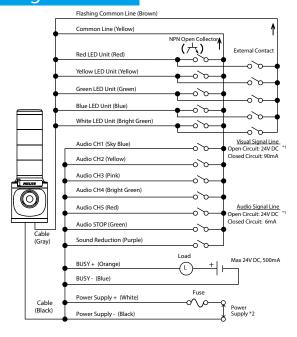
Use of Copyrighted Material

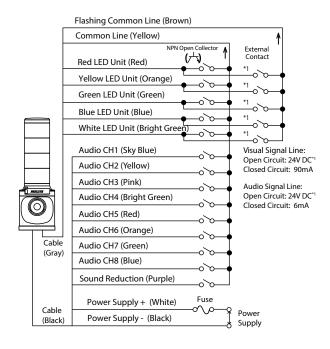
PATLITE Corporation has not applied for permission to use certain copyrighted music or songs recorded for Type-A, Type-C and Type-D melody charts outside of Japan. Therefore, please contact the local copyright association for permission before using the product in case this product is used outside of Japan. Melody chart Type-E is recommended for use outside of Japan as this playlist does not include copyrighted music or songs, and permission is not required.

Sound Charts

Refer to Page 201 for "Melody Charts".

Wiring





Options

Wall-mount Bracket SZ-023 Bracket Material:Steel Cover Material: ABS Resin



Options

PATLITE Playlist Editor 2 (Free Download)

SD Card (2 GB) SDV-2GP

(OS: Windows* 2000/XP/Vista/Windows 7/Windows 8)

> The new PATLITE Playlist Editor 2 is
required to change the audio message

required to change the audio message data for this product.

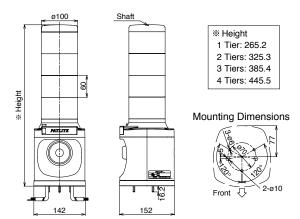
> The SD Card does not contain any data.



Specifications

Model	Rated Voltage	Operating Voltage Range	Number of Tiers	Power Consumption	Mass
LKEH- 102F			1	10.6W	1.4kg
LKEH- 202F	DC 24V	DC 24V ±10%	2	12.4W	1.6kg
LKEH- 302F	DC 24V	DC 24V ±10%	3	14.2W	1.8kg
LKEH- 402F			4	16.0W	2.0kg
LKEH- 110F	AC 100V		1	17.0W	2.1kg
LKEH- 210F		AC 100V ±10%	2	20.0W	2.3kg
LKEH- 310F			3	23.0W	2.5kg
LKEH- 410F			4	26.0W	2.7kg
LKEH- 112F			1	17.0W	2.1kg
LKEH- 212F	AC 120V	AC 120V + 100/	2	20.0W	2.3kg
LKEH- 312F	AC 1200	AC 120V ±10%	3	23.0W	2.5kg
LKEH- 412F			4	26.0W	2.7kg
LKEH- 120F			1	17.0W	2.1kg
LKEH- 220F	AC 2201/	AC 220V + 100/	2	20.0W	2.3kg
LKEH- 320F	AC 220V	AC 220V ±10%	3	23.0W	2.5kg
LKEH- 420F			4	26.0W	2.7kg

Dimensions (Unit: mm)



Notes:

- The sound pressure level is based on measurements under controlled conditions (voice-synthesized 1 kHz sine wave played back from a distance of 1 meter), therefore the surrounding environmental conditions and message content will result in different values for the sound pressure level.
- Even when starting two or more units simultaneously, a lag will occur during message playback.
- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

RFT



Audible Alarm & LED Tower









90dB at 1m

32 Alarm Sounds

IP54

115

Open-collector

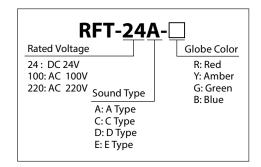


An LED Rotating Light with built-in alarm sounds controllable by binary or bit input for a maximum of 32 sounds!

FEATURES

- Sound reduction feature to drop the volume by about 10dB (at 1m) when an input signal is received (Binary Mode only).
- Using an SD Card can allow customization of one sound group to be re-arranged using any of the pre-installed sounds.
- Compliance with the RoHS Directives makes it environmentally friendly.
- Complies with EU directives and includes the CE mark (for 24V type).
- · Can be controlled with NPN open-collector transistor inputs.
- A side panel access allows easier volume adjustment.
- Produces a loud sound of up to 90dB (at 1m)

How to Order



Sound Chart

Туре Е			(Worldwide)	
Beep (slow intermittent)	Stutter + Bell	Inverted Reveille	Annie Laurie	
Stutter (rapid intermittent)	Synthesized Melody	Galactic Motor	London Bridge is falling down	
Bell (clear high-pitch)	Chime	Ringing Phone	Mary had a little Lamb	
Yelp (rapid siren)	Call Sign	Two Tone	Camptown Races	
Rapid Hi-Lo	Train Ride	Alarm Clock	Amaryllis	
Melody Chime	Galloping Hi-Lo	Ringing Hi-Lo	Mozart Symphony No. 40	
Synthesized Piano	Alien Chatter	Fur Elise	Ave Maria	
Synthesized Bell	Falling Crystals	Bach Minuet in Gmaj	Grandfather's Clock	

Specifications

Series	Model	Rated Voltage	Operating Voltage Range	Maximum Power Consumption	Sound Level	Operating Temperature Range	Flashes per Minute	Protection Rating	Vibration Resistance	Mass
	RFT-24	DC 24V	DC 24V ±10%	12 W	Marri 00 dD	1000 . 5000		IDE 4		1.0kg
RFT	RFT-100	AC 100V	AC 100V ±10%	13 W	Max. 90dB (at 1m)	-10°C - +50°C (85%RH or less)	115 ±15	IP54 (When Flush-mounted)	19.6m/s ²	1 21/0
	RFT-220	AC 220V	AC 220V ±10%	13 W	(at 1111)	(05/01111011633)		(When hash mounted)		1.2kg

Notes:

- Actual sound level will depend on sound type and operating conditions.
- Even when starting two or more units simultaneously, a lag will occur during message playback.
- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

Wiring

Options

RF-001: Wall Mount Bracket



RF-002 Ceiling Mount Bracket



Power Supply (White) Fuse Power Supply (Black) Common Line (Brown) LED Warning Light (Red) Audio CH1 (Sky Blue) Audio CH2 (Yellow) Audio CH3 (Pink) Audio CH4 (Light Green) Audio CH5 (Purple) Audio CH6 (Orange) Audio CH7 (Green) Audio CH8 (Blue)

Options

PATLITE Playlist Editor 2 (Free Download)

SD Card (2 GB) SDV-2GP

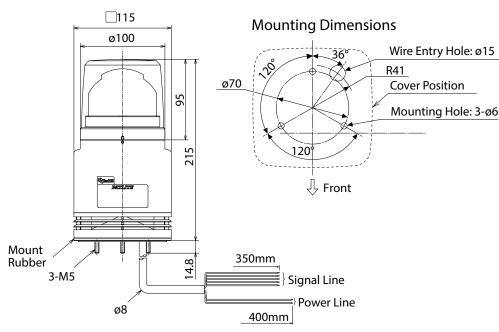
(OS: Windows® 2000/XP/Vista/Windows 7/Windows 8)

> The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.

> The SD Card does not contain any data.



Dimensions (Unit: mm)



Side access design enables easy post-installation maintenance



The sound reduction function reduces the volume by approx. -15dB (at 1m), a feature ideal for use at night time together with a timer or sensor.



RFV







MP3 Voice Annunciator & LED Signal Tower





15 Channels (Binary)

95_{dB at 1m}

IP54

115

NPN/PNP Open-collector



The RFV series is a combination of LED rotating beacon light and MP3 programmable sound unit.

FEATURES

- Field-programmable with an SD Card (sold separately).
- Message capacity of 63 seconds (64kbit/s) with bit input of 4 channels and 15 channels by binary input.
- Volume is adjustable from 0 to 95dB (at 1m) to fit various environments.
- A 4.5G vibration resistant design allows safe use in a high-vibration environment.
- Other Unique Features:
- Maintenance reduced with long service ultra-bright LEDs that can last over 5 years with 24/7 continuous operation.
- 2. Highly-visible with a special optical reflector design.
- 3. Special gear-driven mechanism provides reliability, even after 10 years of no operation.
- 4. Tight-locking dome stays on, even in high vibration environments.
- 5. Designed for inverted installation.

AVAILABLE BY SPECIAL ORDER

· PNP open collector transistor type.

How to Order

RFV-24F-□

Rated Voltage Globe C

24: 24V DC 100: 100V AC 220: 220V AC Globe Color R : Red

> Y : Amber G : Green

B:Blue

Options

PATLITE Playlist Editor 2 (Free Download)

SD Card (2 GB) SDV-2GP

(OS: Windows® 2000/XP/Vista/Windows 7/Windows 8)

- > The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.
- > The SD Card does not contain any data.



Specifications

Series	Model	Rated Voltage	Operating Voltage Range	Maximum Power Consumption	Sound Level	Operating Temperature Range	Flashes per Minute	Protection Rating	Vibration Resistance	Mass
	RFV-24	DC 24V	DC 24V ±10%	18 W	Marri OF JD	1000 . 5000		IDE 4		1.0kg
RFV	RFV-100	AC 100V	AC 100V ±10%	1614	Max. 95dB	-10°C - +50°C (85%RH or less)	115 ±15	IP54 (When Flush-mounted)	19.6m/s ²	1 31.5
	RFV-220	AC 220V	AC 220V ±10%	1600	16W (at 1m) ((when hash-mounted)		1.2kg

Notes:

- Actual sound level will depend on sound type and operating conditions.
- Even when starting two or more units simultaneously, a lag will occur during message playback.
- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

Options

RF-001: Wall Mount Bracket



RF-002 Ceiling Mount Bracket



Power Supply (White)

Power Supply (Black)

Common Line (Brown)

LED Warning Light (Red)

Audio CH1 (Sky Blue)

Audio CH2 (Yellow)

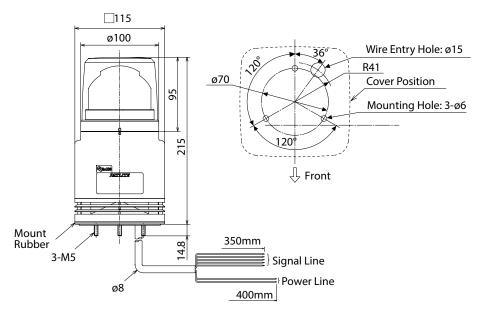
Audio CH3 (Pink)

Audio CH4 (Light Green)

Audio STOP (Green)

Sound Reduction (Purple)

Dimensions (Unit: mm)



Voice message is field programmable with an SD card (sold separately), and the volume can be easily accessed from the side panel, even after installation.



The sound reduction function reduces the volume by approx. -15dB (at 1m), a feature ideal for use at night time together with a timer or sensor.



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, please contact the local copyright association for permission before using the product in case this product is used outside of Japan. Melody chart Type-E is recommended for use outside of Japan as this playlist does not include copyrighted music or songs, and permission is not required.



RT

Hybrid MP3 & Revolving Light







32 Alarm Sounds

105_{dB at 1m}

63 Seconds

IP23

NPN Open-collector





Large horn with revolving warning light featuring clear sound up to 105dB (at 1m).

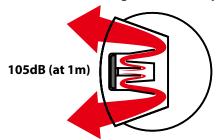
FEATURES

- Built-in Adjustable alarm with a sound of up to 105dB (at 1m).
- High sound quality with the MP3 voice synthesizer (RT-VF only).
- · Installation is in the upright position only.
- Dome is made of superior weather-resistant and light-translucent acrylic resin.
- · Available colors are Red, Amber, Green, and Blue.
- Complies with EU directives and includes the CE mark (for 24V type).

AVAILABLE BY SPECIAL ORDER

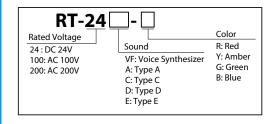
- Cable: Versatile and flexible 3m cable
- AC 120V type
- IP65 rating
- · UL Conformity

Horn Configuration Concept

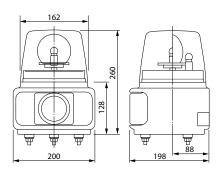




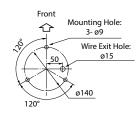
How to Order



Dimensions (Unit: mm)

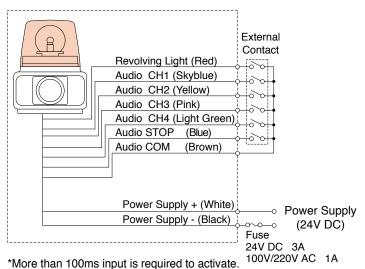


Mounting Dimensions



Wiring

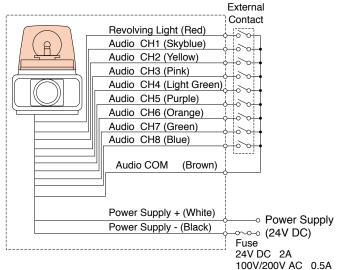
RT-VF



Channel Priority:

4 (Light Green) -> 3 (Pink) -> 2 (Yellow) -> 1 (Skyblue) The greater number has priority when any of the channels are activated simultaneously.

RT-A/C/D/E



Channel Priority:

8 (Blue)-> 7 (Green)-> 6 (Orange)-> 5 (Red)-> 4 (Light Green)-> 3 (Pink)-> 2 (Yellow)-> 1 (Skyblue)

The greater number has priority when any of the channels are activated simultaneously.

Specifications

Carias	Model	Rated	ed Operating Power Bulb Sound Operating		Operating	Rotations per	Sound	Channel	Mass			
Series	Model	Voltage	Voltage Range	Consumption	Ratings	Repl. No.	Level	Temperature Range	Minute	Level	Input	IVIASS
	RT-24VF	DC 24V	DC 21 - 27V	24 W	24V 20W	55	M 00-ID		115		D:+ 4	2.0kg
Voice	RT-100VF	AC 100V	AC 90 - 100V	32 W	12V 15W	54	Max. 90dB	(at 1m)	105		Bit: 4 Binary: 15	2.4kg
	RT-220VF	AC 220V	AC180 - 240V	30 W	120 1300	34 (at 1111)	(at 1111)	-10°C - +50°C	95	Max. 105dB (at 1m)		2.4Kg
	RT-24 🗌	DC 24V	DC 21 - 27V	24 W	24V 20W	55	Max. 95dB (at 1m)	(85%RH or less)	115		Bit: 8 Binary: 32	2.0kg
Sound	RT-100 🗌	AC 100V	AC 90 - 100V	32 W	12V 15W	54			105			2 Eka
	RT-220 🗌	AC 220V	AC180 - 240V	30 W	124 1344)4	(αι 1111)		95		Diriai y. 32	2.3Kg

Notes: - Actual sound level will depend on sound type and operating conditions.

- Even when starting two or more units simultaneously, a lag will occur during message playback.
- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

Sound Chart

Туре Е			(Worldwide)	
Beep (slow intermittent)	Stutter + Bell	Inverted Reveille	Annie Laurie	
Stutter (rapid intermittent)	Synthesized Melody	Galactic Motor	London Bridge is falling down	
Bell (clear high-pitch)	Chime	Ringing Phone	Mary had a little Lamb	
Yelp (rapid siren)	Call Sign	Two Tone	Camptown Races	
Rapid Hi-Lo	Train Ride	Alarm Clock	Amaryllis	
Melody Chime	Galloping Hi-Lo	Ringing Hi-Lo	Mozart Symphony No. 40	
Synthesized Piano	Alien Chatter	Fur Elise	Ave Maria	
Synthesized Bell	Falling Crystals	Bach Minuet in Gmaj	Grandfather's Clock	

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, please contact the local copyright association for permission before using the product in case this product is used outside of Japan. Melody chart Type-E is recommended for use outside of Japan as this playlist does not include copyrighted music or songs, and permission is not required.







Melody/Alarm & LED Tower





Multi-tiered Revolving Warning Light integrated with voice synthesizer or melody alarm for various applications.

FEATURES

- Eight Channels for Bit Input. (Binary Input: 32)
- · Lens is made of superior weather-resistant and light-translucent acrylic resin.
- Built-in adjustable sound of up to 95dB (at 1m) with volume control.
- Warning lights and alarms can be controlled together or separately.
- Available Colors are in Red, Amber, Green, and Blue.
- · Installation is available in the upright position only.

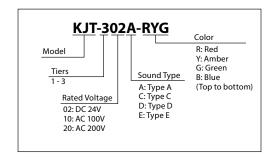
Sound Chart

Type E				
Beep (slow intermittent)	Stutter + Bell	Inverted Reveille	Annie Laurie	
Stutter (rapid intermittent)	Melody Chime	Galactic Motor	London Bridge is falling down	
Bell (clear high-pitch)	Chime	Ringing Phone	Mary had a little Lamb	
Yelp (rapid siren)	Call Sign	Two Tone	Camptown Races	
Rapid Hi-Lo	Train Ride	Alarm Clock	Amaryllis	
Melody Chime	Galloping Hi-Lo	Ringing Hi-Lo	Mozart Symphony No. 40	
Synthesized Piano	Alien Chatter	Fur Elise	Ave Maria	
Synthesized Bell	Falling Crystals	Bach Minuet in Gmaj	Grandfather's Clock	

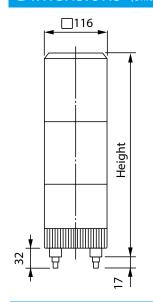
Use of Copyrighted Material

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, please contact the local copyright association for permission before using the product in case this product is used outside of Japan. Melody chart Type-E is recommended for use outside of Japan as this playlist does not include copyrighted music or songs, and permission is not required.

How to Order

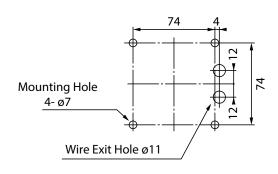


Dimensions (Unit: mm)



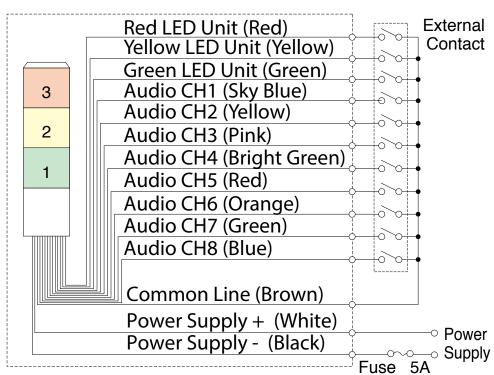


Mounting Dimensions





Wiring



Channel Priority:

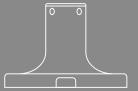
8 (Blue) > 7 (Green) > 6 (Orange) > 5 (Red) > 4 (Light Green) > 3 (Pink) > 2 (Yellow) > 1 (Skyblue) The greater number has priority when any of the channels are activated simultaneously.

Specifications

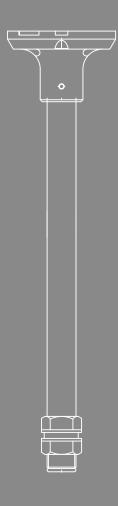
Model		Rated	Operating	Power		lb	Rotations	Sound	Operating	Channels	Mass	
		Voltage	Voltage Range	Consumption	Ratings	Repl. No.	per Minute	Level	Temperature Range			
		KJT- 102	24V AC/DC	AC/DC 21 - 27V	25W/18W	24V 10W	10	135				1.4kg
	1 Tier	KJT- 110	AC 100V	AC 90 - 110V	20W	12V 5W	12	120				1.7kg
		KJT- 120 AC	AC 200V	AC 180 - 240V	2000	120 300	12	120				1.7 Kg
.		KJT- 202	24V AC/DC	AC/DC 21 - 27V	36W/28W	24V 10W	10	135	05 ID / /	2000 . 5000		2.0kg
Melody	Alarm/ Melody 2 Tier	KJT- 210	AC 100V	AC 90 - 110V	26W	12V 5W	12	120	95dB (at 1m)	-20°C - +50°C (85%RH or less)	8 Ch	2 416
Miclody		KJT- 220	AC 200V	AC 180 - 240V	2000	120 300	12	120	,	(65%KH OI less)		2.4kg
		KJT- 302	24V AC/DC	AC/DC 21 - 27V	47W/38W	24V 10W	10	135				2.6kg
	3 Tier	KJT- 310	AC 100V	AC 90 - 110V	2214/	12V 5W	12	120				2 01/0
		KJT- 320	AC 200V	AC 180 - 240V	32W	12V 5W	12	120				3.0kg

Notes:

- Actual sound level will depend on sound type and operating conditions.
- Even when starting two or more units simultaneously, a lag will occur during message playback.
- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing



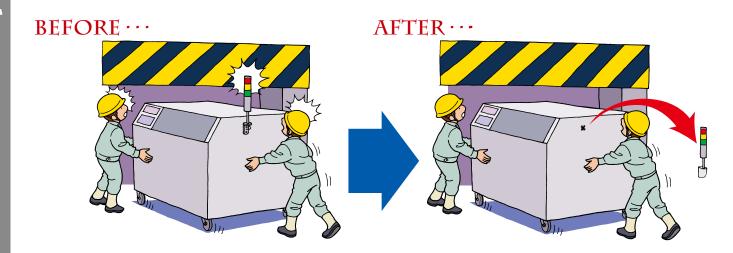
Optional Parts



Optional Parts

Wall Mount Bracket

- Avoid Potential Trouble when moving machinery!
- Easily removable connection! (Wiring unplugs along with it!)
- Easy to disconnect when needing repair!



Easy steps to installing the bracket



Drill the holes on the machine to attach the mounting connector and bracket.



Fix the mounting parts onto the machine with the proper hardware



Join the connectors together.

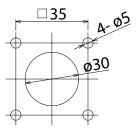


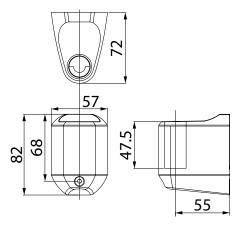
Hook the mounting bracket onto the metal tabs and attach it with the screws.

SZ-020 (For φ 21.7mm Pole) SZ-021 (For φ 21.7mm Pole)



Mounting Dimensions







Wire connector SZ-020-001 (Sold Separately)

MP Options

MP-B

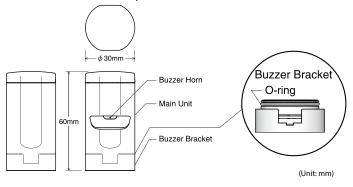
Signal Tower Option



4	
The second secon	
	~
	-

FEATURES

- Double-insulation for enhanced durability and safety
- Direct mount installation with just a single screw
- Main body made of heat resistant ABS resin for superior impact resistance
- Compatible with the MP and MPS Signal Tower
- (The Red module is required when using the optional MP-B)
- Operates in conjunction with the Red LED module (Alarm activation with other colors must be special ordered).



Power Consumption Rated Voltage Model Sound Level MP-B AC/DC 24V 80dB (at 1m) 0.7W

CLA Options



Rear Attachment (Magnetic Mount) Model SZ-310ARM



Side Attachment (Screw Mount) Model SZ-310AS



Side Attachment (CLB-24N Compatible) Model SZ-310ASB



Rear Attachment (Stainless Steel Screw Mount) Model SZ-310EU

CLK Options

M12 Quick Disconnect



4-wire M12 Socket Cable, 5m (No. 1536308) 4-wire M12 SUS Socket Cable, 5m (No. 1552447)

Daisy Link at a maximum of five units



4-wire M12 Link Cable, 0.6m (No. 1518892) 4-wire M12 SUS Link Cable, 0.6m (No. 1552638)

CLK/CWK Options

One-touch Installation



Angle Adjustment Bracket



Surface Mounting Bracket



Requires Red LED Module

Wall Mount Bracket

SZ-018

Ivory White



SZ-018U

Silver

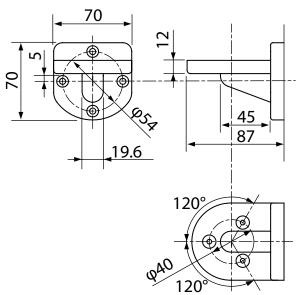


SZ-018K

Black

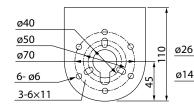


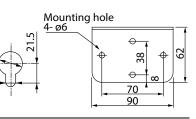




SZ-007

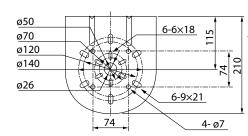


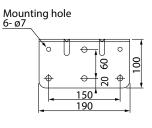




SZ-008

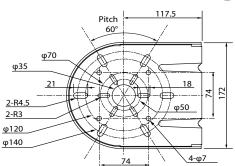






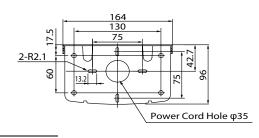
SZ-023





	101.5
Screw: M5×25	204
	l l

Model	Material	Compatable Models	
SZ-017	ADC12	LME, RUP	
SZ-018	PBT/ABS	LU7, LME, LHE	
SZ-028	PDI/AD3	LO7, LIVIE, LHE	
SZ-020	ABS	LU5, LU7, LME, LMS, RUP,	
SZ-021	ADS	LC, LCS, LE, LES-A	
SZ-007	Electro Galvanized	LU7, LHE-A, Pitch for φ50,	
SZ-008	Steel	φ70, φ120, φ140 and 74mm	
S7-023	Bracket: Steel	Pitch for φ50, φ70, φ120,	
32-023	Bracket Cover: ABS	φ140, and 74mm ²	
SZ-012	SPHC	LCE, LCS, LE, LES,	
SZ-013) SPAC	LME, ME, MP	

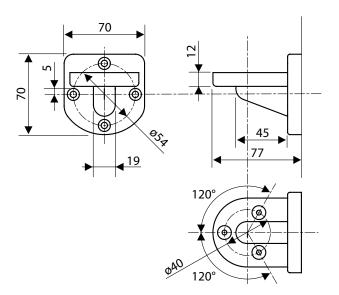




Wall Mount Bracket

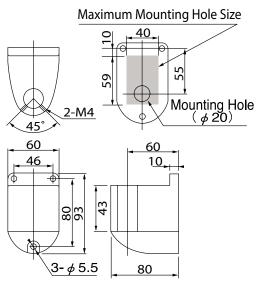
SZ-028





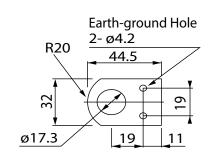
SZ-017 (For φ21.7mm Pole)

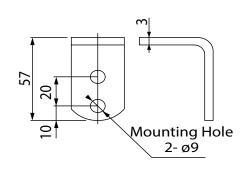




SZ-012 (Pole not included)

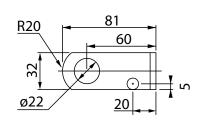


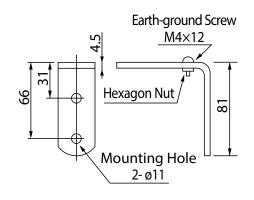




SZ-013 (Pole not included)

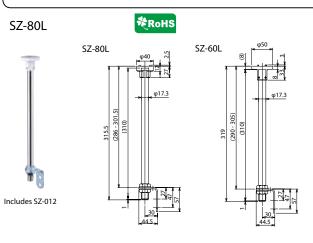






Mounting Pole

φ50 (φ40)



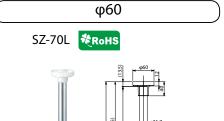


			M	aterial			
Model	Upper Bracket	Pole	'L' Bracket	Cord Bushing	Mounting Bracket	Compatable Models	
SZ-80L	ABS	C. I	SPHC	6/6 Nylon	_	LCE-W	
SZ-60L	ADC12	Carbon-steel Pipe	SPHC	6/6 Nylon	_	LE-W, LES-AW	
SZ-60T	ADC12	ripe	_	_	ADC12		
SZ-70L	ABS	C. I	SPHC	EPT	_	LME-W	
SZ-50L	ADC12	Carbon-steel Pipe	SPHC	EPT	_	LU7, LHE-A	
SZ-50T	ADC12	ripe	_	_	ADC12		
SZ-40L	ADC12		SPHC	EPT		KUS	
SZ-40T	ADC12	Carbon-steel	_	_	ADC12	NU3	
SZ-30L	ABS	Pipe	SPHC	EPT	_	RLE, RU, RH, PS,	
SZ-30T	7,05		_	_	ADC12	PES-A	

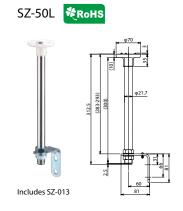
φ70

φ81

ADC12: Aluminum Alloy Die-cast EPT: Ethylene Propylene Rubber PBT: Polybutylene Terphthalates SPHC: Hot Rolled Milled (Sheet) Steel CRMS: Cold-rolled Milled Steel ABS: Acrylonitrite Budadiene Styrene









70 sq.







Includes SZ-013 Cannot use with Rubber Gasket.

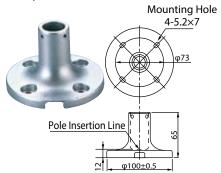
Includes SZ-010 Cannot use with Rubber Gasket.

Mounting Bracket





For φ21.7mm Pole



SZ-016A

For φ21.7mm Pole

Mounting Hole

4-φ5

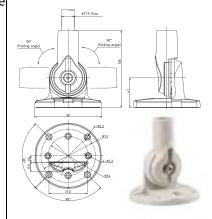
φ54

φ68

SZ-17Q



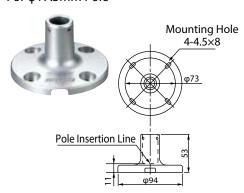
For φ17.3mm Pole



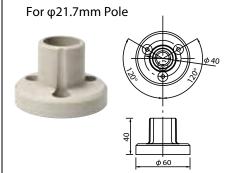
SZ-011



For φ17.3mm Pole



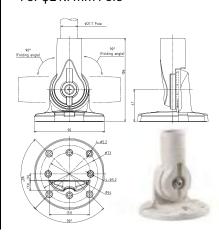
SZ-70-B



SZ-22Q

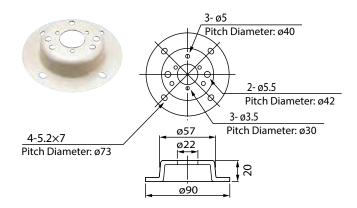


For φ21.7mm Pole



SZ-014





Model Material		Compatable Models
SZ-010		RUP, LME, LMS, LHE
SZ-011	ADC12	LCE, LCS, LE, LES-A
SZ-016A	7.5612	LU5, LU7, RUP, LME, LMS, LHE
SZ-014	CRMS	LE, LES-A
SZ-70-B	ABS	φ21.7mm Pole
SZ-17Q	ABS	φ17.3mm Pole
SZ-22Q	ABS	φ21.7mm Pole

LU7 Upper Bracket



SZ-50-U



SZ-50U-U

Silver

φ70



SZ-50NPT



For φ21.7mm Pole

SZ-60-U

LU5 Upper Bracket

SZ-60NPT For 1/2" NPT Pole



 ϕ 32

φ28

½"NPT

Ivory White

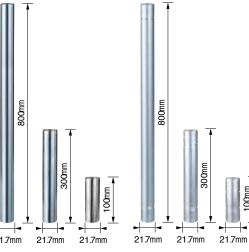


SZ-50K-U

Black

Pole

Steel Pole Aluminum Pole

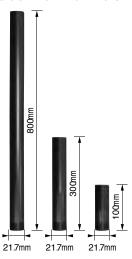


800mm : **POLE-800S21** 800mm : POLE-800A21 300mm : **POLE-300S21** 300mm : **POLE-300A21** 100mm : **POLE-100S21** 100mm : **POLE-100A21**

Black Aluminum Pole

φ27

½"NPT



800mm : **POLE-800A21K** 300mm : **POLE-300A21K** 100mm : **POLE-100A21K**

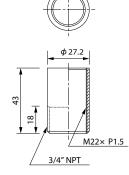
NPT Adaptor

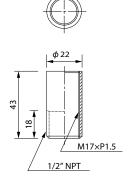
SZ-904





SZ-903





Rubber Gasket

SZ-200A

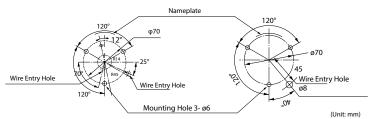




Model	Material	Compatable Models
SZ-200A	Ethylene Propylene	RH(B)
SZ-210	Rubber	RU, RLE, PSE, PES
		,,,

100mm

Mounting Dimensions

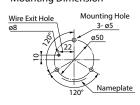


SZ-210





Mounting Dimension



LS7 Options

Wall Mounting Bracket SZ-110



SZ-110



SZ-110S



SZ-110D





O-Ring for LS7 Part No.: Z35721039-F1



Mount Cover for LS7 (Accessory) Part No.: B81910001-F1

Platform Bracket SZ-100



SZ-100



SZ-100S



SZ-100D

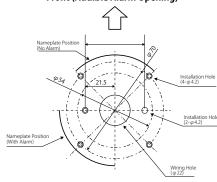


Outer Cover for LS7* Part No.: B45110011-F1 *Only for connecting to the LS7.



M12 Connector & Cable Manufactured by the OMRON Corp.) SZ-120-02 Cable Length 2 m (XS2F-D821-DH0-R) SZ-120-05 Cable Length 5 m (XS2F-D821-GH0-R) SZ-120-10 Cable Length 10m (XS2F-D821-JH0-R) *Only for connecting to the LS7.

Front (Audible Alarm Opening)



Multi-mount Bracket SZ-130



SZ-130



SZ-130S



SZ-130D

LA6 Options



• Waterproof O-ring B25110047-F1



• USB Port Cover (Off-white) B22100071-7F1 (Silver) B22100071-9F1



 Pole Bracket (Off-white) B22210134-7F1



• Waterproof Ring 'B' B25110042-F1

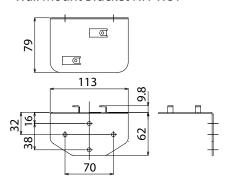


 Headcover (Off-white) B31310001-7F1 (Silver) B31310001-9F1

NHL Options



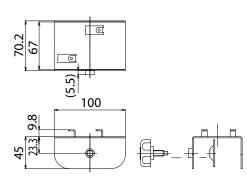
Wall Mount Bracket NH-WST







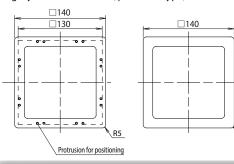
Partition Bracket NH-PST

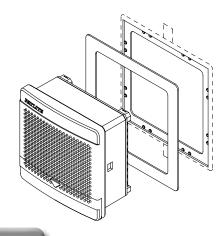


BKV Options

BK-001 Size Adjustment Bracket

This bracket is used to install the annunciator in a place where holes have already been drilled for legacy PATLITE Products (φ133mm² Type)



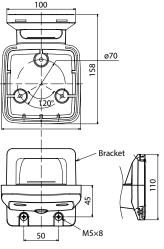


RFT/RFV Options

Wall Mount Bracket



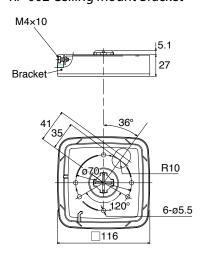
RF-001 Wall Mount Bracket



Ceiling Mount Bracket



RF-002 Ceiling Mount Bracket







(Unit: mm)

Melody Charts

Туре А	(Japan Only)			
Beep (slow intermittent)	Stutter (rapid intermittent)	Stutter (rapid intermittent) Bell (clear high-pitch)		
Rapid Hi-Lo	Rapid Hi-Lo Melody Chime		Synthesized Bell	
Stutter + Bell Synthesized Melody Chime		Chime	Call Sign	
Fur Elise Maiden's Prayer		Bach Minuet in Gmaj	Annie Laurie	
London Bridge is falling down Hol-di-ri-Dia		Mary had a little Lamb	Camptown Races	
Cuckoo Song	Village Blacksmith	On the Bridge of Avignon	Daydream Believer	
Amaryllis	Mozart Symphony No. 40	Quiet Lakeside	Ich bin ein Musikante	
Spanish Romance	Katyusha	Grandfather's Clock	Ave Maria	

Type C (Japan Only)						
Beep (slow intermittent)	Stutter (rapid intermittent)	Bell (clear high-pitch)	Yelp (rapid siren)			
Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell			
Stutter + Bell	Synthesized Melody Chime	Chime	Call Sign			
Can't take my eyes off of you Top of the World		The Entertainer	Amazing Grace			
Amairono Kamino Otome Les Champs-Elysees		Canon	Rara Sunshine			
Uchuusenkan Yamamoto	Oshiete	Makenaide	Gonna Fly Now (Theme from "Rocky")			
I don't Wanna Miss a Thing	Yozorano Mukou	Aiwa Katsu	Haruyo Koi			
Gattsudaze	Odoru Ponpokorin	lmasugu Kisu Mi	Truth			

Gattsudaze Odoru Poripokoi		iiilasugu Kisu Wii	Irutii	Synthesized	
Type-F				(Japan Only)	
Beep (slow intermittent)	Spring Melody	A Maiden's Prayer	Quiet Lakeside	BANZAI SUKIDE YOKATTA	
Stutter (rapid intermittent)	Game Intermission	Bach Minuet in Gmaj	The Music Man	NAMONAKI UTA	
Bell (clear high-pitch)	Jalopy Horn	Annie Laurie	Spanish Romance	SOUSEINO AKUERION	
Yelp (rapid siren)	ET Doorbell	London Bridge is falling down	Katyusha	MAMBO NO 5	
Rapid Hi-Lo	RR-crossing	Holdiridia	Ave Maria	The Parade of the Tin Soldiers	
Melody Chime	Digital Train Whistle	Mary had a little Lamb	Grandfather's Clock Turkey in the S		
Synthesized Piano	no Train Ride The Campto		RHYTHM AND POLICE	Aka tombo	
Synthesized Bell	Starting Notice Chime1	Cuckoo Song	ZANKOKUNA TENSHINO TEEZE	Funiculi, Funicula	
Stutter + Bell	Starting Notice Chime2	Village Blacksmith	MAJINGAA ZETTO	Furusato	
Melody Chime	Starting Notice Chime3	On the Bridge of Avignon	HATARAKU KURUMA	Beautiful Dreamer	
Chime	Chime Ending Notice Chime1		NINGENTTE IINA	JOLLY HOLIDAY	
Call Sign	Ending Notice Chime2	Amaryllis	ROBINSON		
Galactic Hovercraft	Fur Elise	Mozart Symphony No. 40	WORLD FOOTBALL ANTHEM		

Type-G	(Worldwide)			
Beep (slow intermittent)	Galloping Hi-Lo	ET Doorbell	Mozart Symphony No. 40	Polka Tramblanka
Stutter (rapid intermittent)	Alien Chatter	RR-crossing	Ave Maria	O Vreneli
Bell (clear high-pitch)	Falling Crystals	Starting Notice Chime1	Grandfather's Clock	KAERUNO GASSHOU
Yelp (rapid siren)	Inverted Reveille	Starting Notice Chime2	The Parade of the Tin Soldiers	El Condor Pasa (If I Could)
Rapid Hi-Lo	Galactic Motor	Ending Notice Chime1	If You're Happy and You Know It	Hungarian Dance No.5
Melody Chime Ringing Phone		Ending Notice Chime2	Flea Waltz	William Tell Overture
Synthesized Piano	Two Tone	Fur Elise	Turkey in the Straw	Pomp and Circumstance
Synthesized Bell	Alarm Clock	Bach Minuet in Gmaj	The Battle Hymn of the Republic	Comedians' Galop
Stutter + Bell	Ringing Hi-Lo	Annie Laurie	J'ai perdu le do de ma clarinette	Nedelka
Melody Chime	Galactic Hovercraft	London Bridge is falling down	Can-can	Moonlight Serenade
Chime Spring Melody		Mary had a little Lamb	Radetzky March	WAREWA UMINO KO
Call Sign	Game Intermission	The Camptown Races	Funiculi, Funicula	
Train Ride	Jalopy Horn	Amaryllis	Csikos Post	

Type D			(Japan Only)	
Beep (slow intermittent)	Stutter (rapid intermittent)	Bell (clear high-pitch)	Yelp (rapid siren)	
Rapid Hi-Lo	Rapid Hi-Lo Melody Chime		Synthesized Bell	
Runner Mamotte Agetai		Chime	Call Sign	
Iribiao Kikinagara September		Doyoubino Koibito	Akino Kehai	
Saafu Tengoku Sukii 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	
Schubert'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 Air	

Type E			(Worldwide)	
Beep (slow intermittent)	Stutter + Bell	Inverted Reveille	Annie Laurie	
Stutter (rapid intermittent)	Melody Chime	Galactic Motor	London Bridge is falling down	
Bell (clear high-pitch)	Chime	Ringing Phone	Mary had a little Lamb	
Yelp (rapid siren)	Call Sign	Two Tone	Camptown Races	
Rapid Hi-Lo	Train Ride	Alarm Clock	Amaryllis	
Melody Chime	Melody Chime Galloping Hi-Lo		Mozart Symphony No. 40	
Synthesized Piano	Alien Chatter	Fur Elise	Ave Maria	
Synthesized Bell	Falling Crystals	Bach Minuet in Gmaj	Grandfather's Clock	

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	Model	Bulb No.	Ratings	Part No.	Model	Bulb No.	Ratings
		1	12V 35W	D01203501-F1	Vibration Resistant	39	28V 11W
RP:	35/BA15S	2	24V 35W	D02403501-F1		40	110V 12V
	\bigcirc	5	Ratings 12V 35W 24V 35W	D04803502-F1	T20/BA15D	41	250V 11W
	~~					42	12V 23W
RP3	35/BA15D	8	6V 3W	D00600303-F1			
		9	12V 10W	D01201003A-F1		43	24V 25W
		10	24V 10W	D02401003A-F1	S25/BA15S		
		11	48V 10W	D04801003-F1	(Vibration Resistant		
61	8/BA15S	12	12V 5W	D01200503A-F1			
61	(A)	13	30V 10W	D03001006A-F1		50	28V 20W
	(\land)	14	110V 10W	D11001006A-F1			
		15	220V 10W	D22001006A-F1			
		16	110V 15W	D11001506A-F1	T20/BA15D		
,	- 20/E12	17	220V 15W	D22001506A-F1	(Vibration Resistant		
'	20/E12	18	12V 6W	D01200604-F1		51	110V 20V
G	14/BA9S	19	24V 6W	D02400604-F1		53	250V 20V
		22	110V 3W	D11000307-F1	T20/BA15D		
		27	12V 0.11A	D012/1107-F1		54	12V 15W
T	10/E10	28	24V 0.11A	D024/1107-F1	0	55	24V 20W
		36	120V 40W (Vibration Resistant)	D12004024-F1	G18/BA15S		
		37	220V 30W	D22003024-F1			

Model	Bulb No.	Ratings	Part No.
Vibration Resistant	39	28V 11W	D02801111-F1
	40	110V 12W	D11001211-F1
T20/BA15D	41	250V 11W	D25001111-F1
	42	12V 23W	D01202305-F1
\$25/BA15S	43	24V 25W	D02402505-F1
Vibration Resistant T20/BA15D	50	28V 20W	D02802011-F1
Vibration Resistant	51	110V 20W	D11002011-F1
T20/BA15D	53	250V 20W	D25002011-F1
	54	12V 15W	D012001503-F1
G18/BA15S	55	24V 20W	D02402003-F1

^{*} Some bulbs may not be available due to part or product discontinuation without prior notice.

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