

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

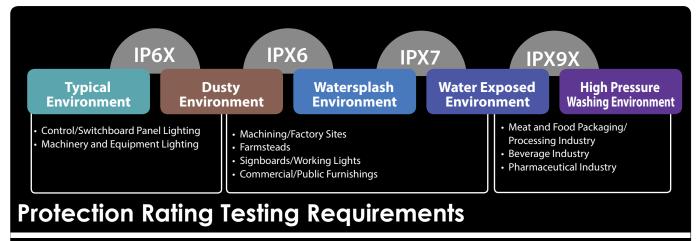


World-wide Sales, Marketing and After-sales Support Network



Index of Ingress Protection defined by CEI / IEC 529

IP Code		
No protection.		
Protection against vertical falling drops of water.		
Protection against dripping water when tilted up to 15°		
3 Protection against spraying water.		
4 Protection against splashing water.		
5 Protection against water jets.		
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

1101110								
				PATEUT STATE OF THE PATEUT				
Pa	ge No.	30	33	32	34	38		
N	/lodel	NHL	PHE-3FBE1	PHC-100A	PHU-3	WDR-LE-Z2	WDT-5E-Z2	WDT-6M-Z2
Voltage	DC 5V DC 12V DC 24V	• *	• *	• *	**	• *	***	***
Network Connection	LAN USB RS-232C Wireless	•	•	•	•	•	•	•
Body Color	White Ivory White Black	•	•	•	•	•	•	•
	B (at 1m))	80	80	-	-	-	-	-
Protection	Rating	IP20	-	-	IP20	IP20	0	0

IP Rating is the same as the Signal Tower its attached to.
 * Uses AC Adaptor
 ** Uses USB Power Source
 *** Uses Signal Tower Power Source

Explosion-proof

Expid	sion-pro	101					
Pa	ige No.	42	43	45	44		46
	Model	AR-070	AR-078	EHS/EHV	LKEH-FV LKEH-FE		CLN
	DC12V DC24V	•	•	•	•	•	•
Voltage	AC24V DC48V	•	•				
Voltage	AC100-110V AC115-120V						
	AC200-220V AC230-240V						
Conform	CE nity Ex	•	•	•	•	•	•
Zone	<u> </u>	2, 22	2, 22	2, 22	2, 22	2, 22	2, 22
Output ((dB (at 1m))	85	85	110	105	105	-
Protection	on Rating	IP65	IP65	IP65	IP53	IP53	IP66G/67G/69K

PLAN 8888 ACTUAL 928 STATUS -3	PLAN 1234 ACTUAL 987 STATUS - 10
	36
VE25	VE100
	•*
•	•
-	<u>-</u> -

47	48	49
CLK	CLA	RES-A
		0
•	•	©
		©
		•
		©
		<u></u>
•	•	
•	•	
2, 22	2, 22	1, 2
-	-	-
IP66G/67G/69K	IP66/67/69K	IP65

Available upon special order.

Signal Tower

Signal Tower								
Page No.	52		54	56	5			61
Model		ИES-A M		MP-C	LCE	LCE-U	LCS	LCS-U
Size (ømm)	25		30			4	0	
AC/DC1 DC24V AC/DC2 AC90-29 AC100V AC120V AC220V AC230V White	4V 0V	•		•	•	•	•	•
Body Color Silver Black	•	•	•	•	•	•	•	•
Lead Wi Connection Type Termina M12 QD		•	•	•	•	•	•	•
Transistor Input PNP NPN						• • • • • • • • • • • • • • • • • • •	•	
Flashing Function						•		
Output (dB (at 1m))	<u> </u>		-	85			-	
Protection Rating	IP42		IP65		IP	65	IP	54

Available upon special order.

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	e No.	92	8		26				5		
	del	LHE-A	LS7-H	LS7-C	LU7-USB	LU7-S	LU7-SU	LU7-SK	LU7	LU7-U	LU7-K
Size ((фmm)					70					
	DC5V DC12V DC24V AC/DC24V		•	•	•	•	•	•	•	•	•
voltage	AC90-250V AC100V AC120V AC220V								•	•	•
Body Color	White Ivory White Silver Black	•	•	•	•	•	•	•	•	•	•
Connection Type	Lead Wires Terminal M12 QD	•	•	•		•	•	•	•	•	•
Input	PNP NPN	•	•	•		•	•	•	•	•	•
Flashing Fu	unction	•			•						
Output (dE Protection	3 (at 1m)) Rating	90 IP65	8 IP		80 IP65	90 IP65					

65	63		68		16		72		78		55
LE	LES-A	LU5	LU5-U	LU5-K	LA6	LME	LME-U	LME-N	LMS	LME-S	LME-Q
		50						60	_		
•	•	•	•	•	•	•	•	•	•	•	•
•						•	•	•		•	•
					•			•			
			•	•	•		•	•	•		
		•	•	•		•		•	•	•	•
	•		•	•	•	•		•	•	<u> </u>	© •
85	-		85		85		85			8	5
IP54	IP65		IP65		IP65		IP65		IP65	IP	65

					The latest the same of the sam	A CONTRACTOR OF THE PARTY OF TH	
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		
<u>[</u>							
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				•	•		
	•	•					
85	90	90	80	85	85	-	-
IP54	IP65	IP54	IP54	IP23	IP23	-	-

Signal Light

<u> </u>							
			4 14		¥ • ¥		
	Page No.	22	108	110	113	109	114
·	Model	NE-M1-CL	NE-24	PES-A	PSE	KHE	LFH
S	ize (¢mm)	5	7	8	2	10	00
	DC12V DC24V AC24V DC48V AC100-230V AC100V AC120V AC200V AC220V AC230V	•	•		•	•	•
Body Color	White Black	•	•	•	•	•	•
Transistor Input	PNP NPN			•			
Output (dB	(at 1m))	-	-	-	-	-	-
	Rating (w/Gasket)	IP66/67	IP65	IP23 (55)	IP23 (55)	IP23 (55)	IP66

[△] 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

				()						
	Page No.	120	12	21	122	122	12	23	124	125
	Model	RLE	RU	RS	RKE	RHE	RH-A	RK-A	SKH-EA	WH-A
	Size (¢mm)	•	82				100	•		100
	DC12V		•		•					
	DC24V	•	•						•	
	AC24V		•							• • • • • • • • • • • • • • • • • • • •
	DC48V					•				• · · · · · · · · · · · · · · · · · · ·
İ	DC100V									• · · · · · · · · · · · · · · · · · · ·
Voltage	AC100V		•	•	•	•	•	•	•	•
1 5 .	AC120V						•	•		
	AC200V				•	•	•	•	•	• • • • • • • • • • • • • • • • • • • •
	AC220V		•							
	AC240V									• • • • • • • • • • • • • • • • • • • •
	AC100-240V									• • • • • • • • • • • • • • • •
	White		•						Δ	
	Black	·······						<u></u>		
	Red		•		•			•	•	
l	Yellow		•		•		•	•	•	• • • • • • • • • • • • • • • • • • • •
Globe	Green			•	•	•	•	•	•	
Color	Blue				•		•	• • • • • • • • • • • • • • • • • • • •		
	Violet							} .		
	Bulb		•	•				•		
Light	LED	•			•	•				• • • • • • • • • • • • • • • • • • • •
	Halogen									• • • • • • • • • • • • • • • • • • • •
Ou	tput (dB (at 1m))	-	-	-	88	88	90	90	-	90
Protection	on Rating (w/ Gasket)	IP23 (55)	IP23 (55)	IP23 (55)	IP23 (55)	IP23 (55)	IP23 (55)	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.

445	440	440	116	147
115 LFK	110 PEW-A	112 KPE-A	XPE	117 XME
100	107		1 AFE 62	187
100	107	10	JZ	107
		•		•
	•			Δ
-	85	-	-	-
IP55	IP54 (23)	IP23	IP23	IP23

											N N	
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		16	52		182	186	187	204	-
												•
	lacksquare	lacksquare	lacksquare	lacksquare		lacksquare	•	•	lacksquare	lacksquare		•
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90	90	88	_	_	75	_	_	_	_	_	<u> </u>	-
IP54	IP23	IP23	IP23	IP23	IP23	IP23	IP66	<u> </u>	IP23	IP23	IP66	-
		horaina or				0	00					

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

LED Lights

LLD LIG	IIt3									
								160000	((1738)) 773850	355433533
Pa	ige No.				148					
				С	LA				CLK	
ľ	Model	1S	2S	3S	6S	98	12S		-AG	
Siz	ze (mm)	100	200	300	600	900	1200	200	300	600
Voltage	DC24V									
Body Material	Aluminum									
	Stainless Steel									
Material	Polycarbonate									
	Tempered Glass									
Cover	PMMA Resin									
	Polycarbonate	<u> </u>								
Light Color	Temperature (K)		, 68	300K (-CD)	, 4800K (-C	N)	,	6500K	(-CD), 5000	OK (-CN)
Light Oolor	Amber									
	Water				•	•				•
Resistance	Oil					ļ	ļ			
1 toolotarioc	Corrosion		<u>.</u>		<u>.</u>	ļ		<u>.</u>		ļ
_	Dust									
Protec	tion Rating			IP66/	67/69K			J IP	66G/67G/6	9K

Audible Alarms & Annunciators

							Anna Carlo	(<u>O</u>)				•	
F	Page No.			156		158	160	172	24	168	170	162	174
	Model		BM	ВМ-Н	BM-D	BD	BK	BSV	BSV-L	BDV	BKV	EHS	EHV
5	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	• • • • • • • • • • • • • • • • • • • •	•	ě	•	•	•			•	•		
Body	Light Gra White Dark Gra	<u>y</u>				•		•	•	•	•	•	•
Color	Black Silver		•	•	•				•				
Sound Function	MP3 Melody/ Sound R	Alarm Reduction	•	•	•	•	•		•	•	•	•	•
Transist	or Input	PNP NPN	•	•	•	<u> </u>	<u> </u>	•	•	<u> </u>	<u> </u>	•	•
Outp	ut (dB (at	1m))	85	90	80	90	95	8		87	95	110	110
Channel I	nputs (Bit	(Binary))		2	2	4	8 (32)	4 (15)	4 (15)	4 (15)	5 (31)	8 (32)	8 (63)
	ck Sound		-	-	-	-	-	63	520	63	63		220
	ection Ra		IP30	IP30	IP34	IP54	IP54	l IP	54	IP54	IP54	l IP	65

\$19793A511039A53139A						lana and	Bern Spring	A3284
148	15	50		152			20	
CLK	CI	_N		CWA			CWK	
-SA/-SG	-T	-(P)T		CVVA			CVVK	
300	85)	k 85	300	600	900	200	300	600
•		•	•					
	•	•		.	ļ			
•	.			.	ļ			
A (SC)			•		•			
● (-SG) ● (-SA)	.	······		.				
(-SA)				·	ļ			
6500K (-CD), 5000K (-CN)	6500K (-CD),	2700K (-CL)	6	5500K (-CI))	6	500K (-CE))
	•	•	•	•	•	•	•	•
•		•				ļ .		•
● IP66G/67G/69K	● IP66G/6	● 7G/69K	•	IP65	•	•	● IP66G/670	•

176
FV-127JP
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7 (127)*
7 (127)* 480

Hybrid	Annunc	iators						
		A SERVICE OF THE PERSON OF THE						
	ige No.	_	80	182	184		86	188
	Model	LKEH-FE	LKEH-FV	RFT	RFV	RT-F	RT-VF	KJT
Siz	ze (mm)	ф1	φ100		15	ф1	62	116
	DC24V AC24V	. •	●		●	●	●	
1/-14	AC100V	•	•	•	•	•	•	•
Voltage	AC120V	1	1		1	1	1	
	AC200V	·	l		l			•
	AC220V					Î	Î	Ĭ
Sound Function	MP3 Melody/Alarn							
Transisto	PNP						<u>.</u>	
	. INPIN							
	(dB (at 1m))	105	105	90	95	105	105	85
	nel Inputs	8 (32)	5 (31)	8 (32)	4 (15)	8 (32)	4 (15)	8 (32)
	Duration (sec.)		63	-	63	-	63	-
Protec	tion Rating	IP53	IP53	IP54	IP54	IP23	IP23	IP23

^{*} When SD Card is used.



New Products



ELA6

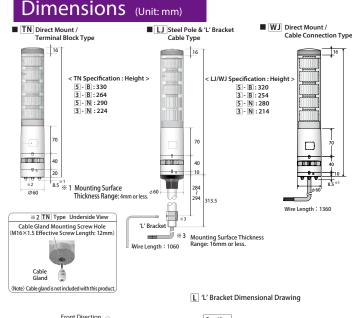
Signal Tower



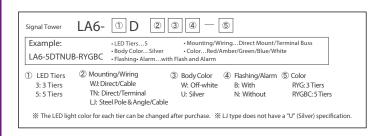
Display a variety of colors in various ways to improve your processes.

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.



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

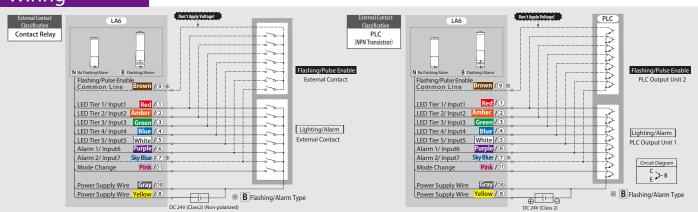


Pole Bracket (Off-white) B22210134-7F1



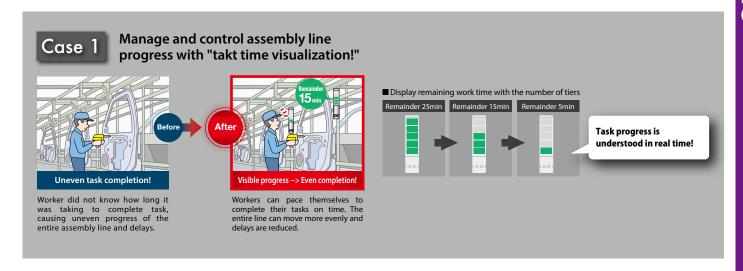
Waterproof O-ring B25110047-F1

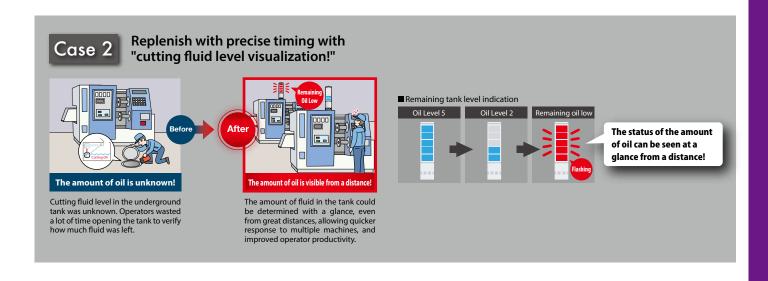
Wiring

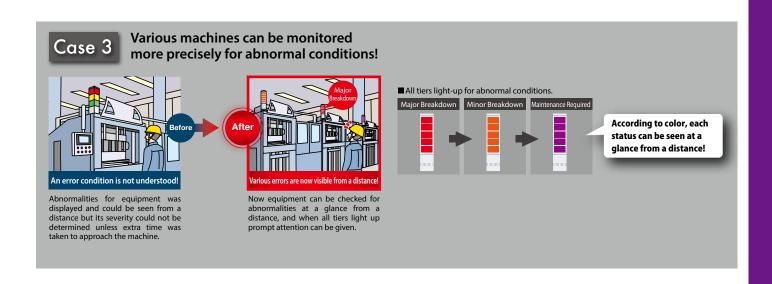


Model						-a D aaa-a					
Rated Voltage		DC24 V									
Operating Volta		±10% of Rated Voltage									
l	Standard	LA6-5 D _□ N-RYGBO				D□□B-RYGBC	6.5W				
Rated Power		LA6-3D _D N-RYG	3.5W			□□B-RYG	4.5W				
Consumption [viaximum	LA6-5 D _D N-YYYY				D _□ B-YYYYY	8W				
Test Conditi	on	LA6-3D□□N-YYY 4.5W LA6-3D□□B-YY 5.5W Power Consumption test with alarm set at Alarm Sound No.1 at maximum volume									
Signal Wire Cur		rower Consumptio	Maximum 70mA								
Standby Currer						mum 15mA					
Operating Amb											
Temperature					-25	□ to +60□					
Operating Hum	nidity Range		Less than 90% RH (No Dew or Condensation								
Storage Tempe Range	rature				-25	□ to +60□					
Storage Humid			Less than 90% RH (No Dew or Condensation)								
Mounting Loca						loor Only					
Mounting Direct			Upright/Inverted Direction								
Protection Rati			IP65 (With alarm: IP54) IEC 60529								
Test Conditi	on	10				n upright posit					
		LA6-00LJ00 A	Sweep Durability: Total amplitude: 0.3 mmp-p (10 - 57.5 Hz), A6LJ Acceleration: 20.0 m/s2 (57.5 - 150 Hz) Fixed pitch durability: Acceleration 20.0 m/s2								
Vibration Resist	tance	LA6-00TN00 SV	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								
						068-2-6:2010					
Test Conditi	on					ed in an uprigh					
Insulation Resis							er input lead and chassis.				
Withstand Volta	age						ithout breaking insulation				
Display Color		red (1000 mcd) yell									
(Typical Lumino Intensity)	ous	Purple (800 mcd) p * Due to the charac every product may	teristics	of the LED elemen	ts, a var	iation in differe	nce of the color tone and brightnes				
Flash Rate		60 ±2 fpm									
		No. 1 2400Hz Co	ontinuou	s beep sound	No. 2	2400Hz Rapid	intermittent beep				
		No. 3 2400Hz Lo	ng inter				termittent beep				
Alarm Sound		No. 5 3600Hz Co					intermittent beep				
(Typical Freque	ncy)						termittent beep				
					No. 10	2400Hz & 3600	Hz Multiplexed Beep				
		No. 11 4000Hz &	4800Hz I	Multiplexed Beep							
Sound Level				-I N I - 1 ' ' '		mum: 85dB	- Alba alama				
Test Conditi	on	Ala					of the alarm opening at 1m				
Volume Contro	I	The set up button is the fourth step (Factory Default: Maximum). [Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [OFF]									
11	Main Unit	Returns to [Maximum]) USB micro-B Terminal Female USB2.0/1.1 Interface, Transmission Rate: USB2.0/1.1/1.0									
Data Iransfer	Transfer	†									
	Cable	Charge	/Data Tra	anster Micro USB (ı	not inclu	uded); Connec	tor: USB Male- USB (MicroB) male				
Application Sof	ftware		Exclu	sive Application So	oftware	(Downloadable	from our Homepage)				
			g LA6-3			LA6-3DWJ□B	450g				
Mass (Toleranc	e 10%)		g LA6-3			LA6-3DWJ□N	400g				
ividaa (TOTETATIC	C 10/0)		g LA6-5			LA6-5 DWJ□B	560g				
		LA6-5 DTN□N 530					510g				
		EMC Directive (EN 61000-6-4, EN 61000-6-2) RoHS Directive (EN 50581)									
Compliance Sta	andards	UL508, CSA-C22.2 N FCC Part 15 Subpar				KN 61000-6-4, I 1arking	(N 61000-6-2)				

Success Story













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.



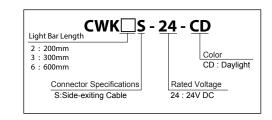
It has passed the oil resistant test from common cutting oils.

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

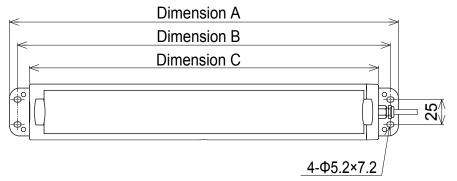
Specifications

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% RF	90% RH or less, no condensation					
Main Unit Material	Body: Alumin	Body: Aluminum Alloy; Lens: Tempered Glass					
Cable Length		3 meters					
Mounting Location		Indoors					
Protection Rating	IP6	6G/ IP67G (JIS C09	20)				
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)



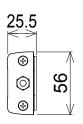
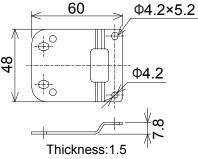
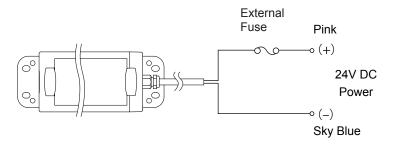


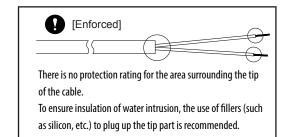
Table 1

Model	Diension A	Dimension B	Dimension C
Wiodoi	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





Oil Exam

It has passed the oil resistant test from the following common cutting oils.

Company	Oil Type		
Hangsterfer's	Hangsterfer's S-500		
Yushiro Chemical Industry Co., Ltd.	Yushiroken Synthetic #663		
Castrol	Syntilo 9954		
BlaserSwisslube Inc.	Blasocut BC35LFSW		

Confirmation in result of swelling, contraction, dissolution, exfoliation, separation, cracks, and discoloration by the accelerated impregnation examination with the oil types indicated in the table on the left for diluted oil at 55° C for 240 hours (ten days) was made.

oil at 55°C for 240 hours (ten days) was made.
Due to the additive agents in oil, the application of oils other than the ones mentioned may influence physical properties, therefore, please inquire in advance.

* The mentioned company names, product names, trademarks, etc. are the registered trademarks or trademarks in Japan for each company, and/or other countries.

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

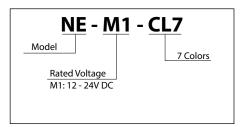
- Seven multicolored LEDs.
- Low power consumption to increase energy efficiency.
- High protection rating for outdoor use.
- · Color-coded wires for easy wiring.
- Applications are suitable for AGV units, small tooling machines, control panels, etc.
- One unit can make colors in Red, Yellow, Green,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

Mounting Dimensions Mounting Hole 2-04.5 Wire Entry Hole M16xP1.5

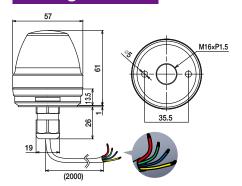
Specifications

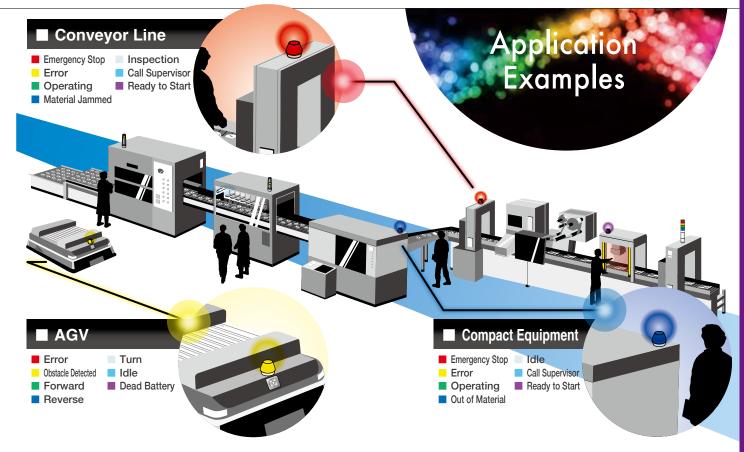
Model	Rated Voltage	Operating Temperature Range	Operating Humidity	Protection Rating	Mass
NE-M1-CL7	12 - 24V DC	-30 C - +50 C	90% or less	IP66/IP67	55g

How to Order



Wiring









■ 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 Voice Annunciator













87_{dB at 1m}

15 Channels (Binary)

520 Seconds

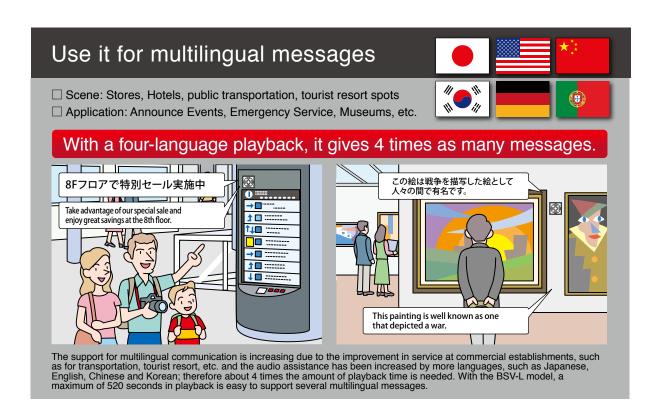
NPN/PNP **Open-collector**

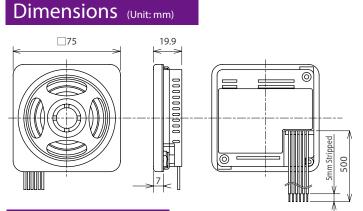


Now more playback time for longer, or more messages.

FEATURES

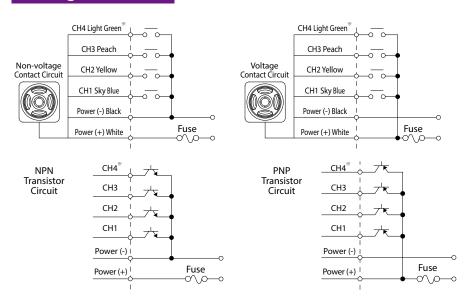
- Sound reduction
- Use the SD card to change messages while out in the field or set up modes for the right application.
- It complies with Europe's environment-friendly RoHS Directivem, conforms to the CE requirements and UL Listed.
- Can be used with transistor driven inputs. (Either NPN or PNP)
- 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 are IEC-61554 (DIN-43700) compliant

Wiring



Specifications and How to Order

■ 520sec. Model

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											Off white (-W) Dark Gray (-D)	Voice
BSV-24NLM-S	_ NPN										Silver (-S)	Voice
BSV-24NL-W/D	Transistor							4 (Bit Input) 15 (Binary Input)	IP54		Off white (-W) Dark Gray (-D)	Alarm
BSV-24NL-S		DC	DC10.8V	3.5W	Max. 87dB (at 1m)	-10°C to +50°C	520sec.	*When using the Sound Reduction	(Only for Panel Mount in the	100g	Silver (-S)	Alarm
BSV-24PLM-W/D		12-24V	26.4V	3.500	1kHz Sine Wave	(RH 85% or less)	520sec.	Function, the inputs become:	Upright Position) In accordance	±10%	Off white (-W) Dark Gray (-D)	Voice
BSV-24PLM-S	_ PNP				Omio Maro			3 (Bit Input) 7 (Binary Input)	with IEC 60529		Silver (-S)	Voice
BSV-24PL-W/D	Transistor										Off white (-W) Dark Gray (-D)	Alarm
BSV-24PL-S											Silver (-S)	Alami
BSV-24 ① Transistor Type N: NPN Transistor P: PNP Transistor Blank: 63 sec. ② Playback Time L: 520 sec. Blank: None (15 Alarm Sounds) M: Pre-recorded Messages M: Pre-recorded Messages						Sounds)	Front Cover W: Off white D: Dark Gra S: Silver)				



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.



Signal Tower **RoHS** C & FC**







USB powered Base Module with Integrated Alarms

FEATURES

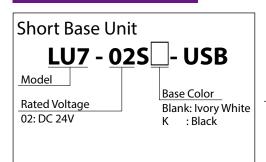
- USB Bus Power no power supply needed
- DLL Operable
- Supports a maximum of five tiers where three tiers can be lighted simultaneously
- Complies with CE/RoHS/FCC/CK Standards
- IP65 protection rating
- Adjustable alarm frequency
- Two levels of adjustable alarm sounds
- Sound pressure at a maximum 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

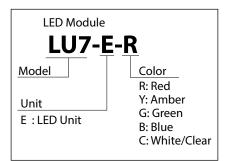
Free Downloadable Software

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

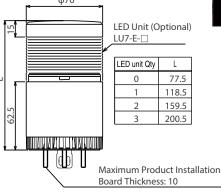


How to Order





Dimensions (Unit: mm)



Application Example

Printing Machines











LU7-LB

Signal Tower





4 Sounds

100_{dB at 1m}

IP40

Φ70

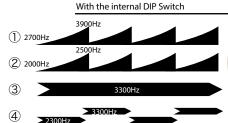
Open-collector

Loud, multi-sound Module (LU7-LB)

FEATURES

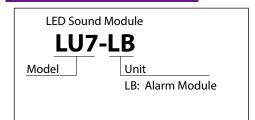
- Loud sound pressure up to 100dB (±5dB)
- Four kinds of alarm sounds can be selected with a DIP switch for a wider alarm sound range
- IP40 Protection rating
- Complies with CE/RoHS/FCC Standards
- Can be used with LU7-02(FB), LU7-M2(FB), and LU7-02S(B)
- · Alarm can be set to sound with a specific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

4 Alarm sound Patterns





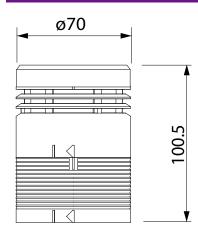
How to Order



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.

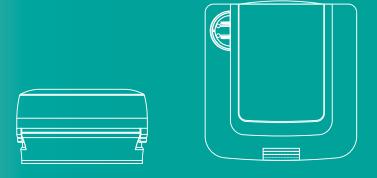
Diagram 1. Sound Direction

Dimensions (Unit: mm)



Specifications

Model	Туре	Rated Voltage	Rated Current	Power Consumption	Mass
LU7-LB	Alarm Sound	DC 24V	150mA	-	140g



Network Products



NHL

Network Monitor Signal Tower











4 Alarm Sounds

80db at 1m

Φ60

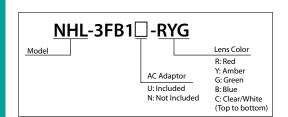
Network



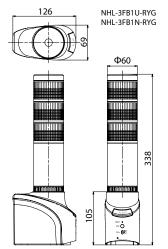
Network Monitoring With a New Look

- 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

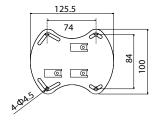


Dimensions (Unit: mm)





Upright Base (Standard Item)



Specifications

ор с с.										
Model			NHL-3FB1U-RYG			NHL-3FB1N-RYG				
AC	Rate	d Voltage	AC 100V to 240V				-			
Adaptor		ing Voltage ange	P	AC 90V to	264V				-	
	Rate	d Voltage				DC	24V			
Main Unit		ower	Unit	Red	Amber	Gre	een	Blue	White	Buzzer
	Cons	umption	2.0W	1.5W	1.5W	9.0		0.8W	0.8W	2.0W
		ture Range					+40°			
Storage Te							+60			
	ive Hum			RH	of 20 to 80				ion)	
	on Resi						m/s ²			
Prote	ction R	ating			IP20 (N					
Alarm Sound	Aud	lio Level	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	e Pattern	Four distinctive patterns: (Slow Intermittent), (Fast Intermittent),(Fast Burst), (Continuous)							
		"CLEAR"	Pushbutton Switch							
Switch	.05	"TEST"	Pushbutton Switch							
SWILLI	ies	"RESET"	Pushbutton Switch							
		"BUZZER"					witc	* *		
			Physical Layer: 10BASE-T/100BASE-TX (Auto-negotiation/Full Duplex/ Half Duplex)							
١ .			Data Link Layer: CSMA/CD							
Communi Metho		Ethernet	Network Link Layer: IP / ARP / ICMP							
			Transport Layer: TCP / UDP							
			Application Layer: HTTP / RSH / SMTP / SNTP / POP / DNS / NTP / DHCP / Socket							
Mount	ina	Location	Indoors Only							
Mount	<u> </u>	Direction	Desktop or Wall-mount in the Upright Position							
	Mass		800g (AC Adaptor not included)							
Accessories			AC Adaptor, Rubber Feet, Adhesive Tape, Support Base Rubber Feet, Adhesive Tape, 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:

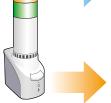
Diagnostic / Reporting/ Notification Features



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.



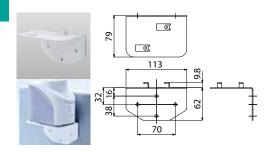
SNMP

P v2

SNMP TRAP Transmission

Can transmit from a maximum of eight network devices.

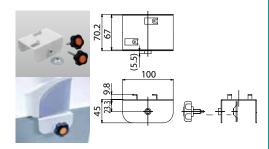
Options



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





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) DC Jack Reset Switch RS-232C Port D-sub 9P 100 Male Connector Connect-disconnect Lever Wire Insertion PATLITE: 117.5 88888888888888 Terminal Block

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 Specifications	Power Consumption	4.0W				
	Operating Temperature Range	0°C to +40°C				
	Humidity	20 to 80% RH (No Condensation)				

PHE-3FBE1 / PHC-100A Control • ASCII Command String @ ? ? 1 2 7 ! Header 1Byte @[40H] ID No. 2Byte Output No. Function1 Please use the default value [??], Steady Red On Steady Amber On Steady Green On which allows this product to function without specifying an ID No. Alarm 1 On Output Action 1Byte Alarm 2 On Flashing Red On Flashing Amber On 0 [30H] ... Output Off 1 [31H] ... Output On [3FH] ... Enter ID No 8 Flashing Green On Output Select Communication Data / Settings Example Data1 Data2 2 [32H] 7 [37H] ASCII [Hex] 2 [32H] * Baud Rate: * Data Length: * Stop Bit: * Parity: * Flow Control: Bits (BCD) Output No. 001100<mark>10</mark> 87<mark>5</mark>5 001101 9600bps 8 bits 1 bit The position of the '1' in the Binary Coded Decimal value specifies the Output Number acted upon according to the Output Action Byte specified above. Communication Mode Asynchronous End Code Transmission Mode:Half Duplex ! [21H]

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





PHE-3FBE1

RS-232C / PC Controlled Signal Tower





LED

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) PATUTE PATUTE REPORT OF THE PATURE REPOR





• Application Examples

Transfer data to turn on relay circuit 1 from PC.

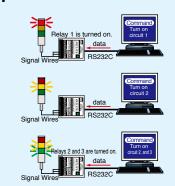
Data @??101!

Transfer data to turn on relay circuit 2 from PC.

Data @??102!

Transfer data to turn on relay circuits 2 and 3 from PC.

Data @??106!



Specifications

ı	Model	PHE-3FBE1			
	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			
	Flashing Rate	60 flashes per minute			
Signal Tower	Sound Level	Adjustable from 70dB to 85dB (at 1m)			
Specifications	Tone Pattern	2 Alarms (Slow Intermittent, Fast Intermittent)			
	Dimensions (mm)	100(W) x 259(H) x 115(D)			
	Power Supply Source	AC Adaptor (Sold Separately)			
PHE Base	Power Consumption	6.5W			
Specifications	Operating Temperature Range	0°C to +40°C			
	Humidity	20 to 80% RH (No Condensation)			

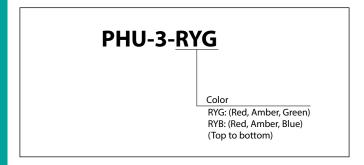


Signal Tower can be controlled directly by PC through the USB Port.

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.

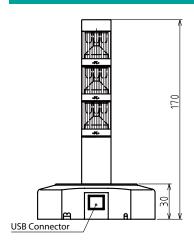
How to Order

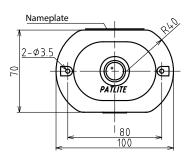


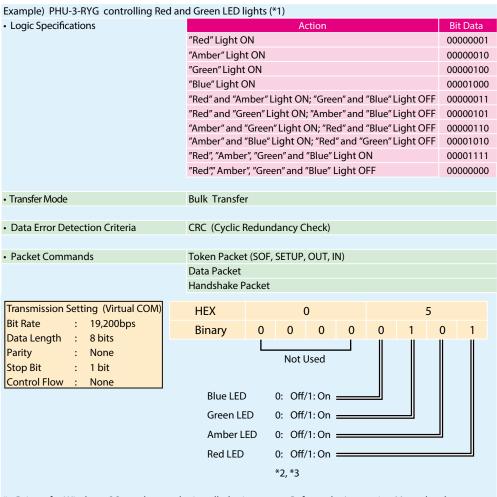
Specifications

	Model	PHU-3-RYG	PHU-3-RYB			
	Rated Voltage	5V DC (USB Buss Power)				
	Operating Voltage Range	DC 4.4V to	DC 5.25V			
General	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-I	3 Equivalent			
	Installation	Upright Po	sition Only			
6	Protection Rating	IP	20			
Signal Tower	Insulation Resistance	e More than 1MΩ at DC500V between the terminals and Chassis				
lower	Withstand Voltage	AC 500V applied for 1 minute between the terminals and chassis without breaking insula				
	Mass	0.18kg				
Interface	Input / Output	Input: USB / Output: Lighting	(Red, Amber, Green, Blue LED)			
Interface	Physical Specifications Connector Input: Series-B Receptacle (USB Rev. 1.1 Compliant)					

Dimensions (Unit: mm)







- *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 separately.
- * 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 VE25-304SU Digit Size: 25mm **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"
- 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

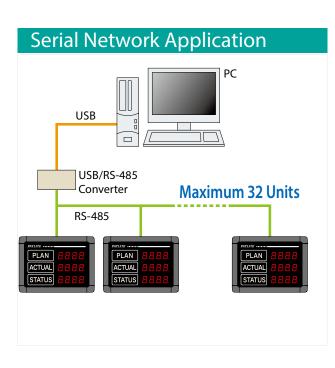


Three-terminal Output



Optional Bracket for VE-100 Available



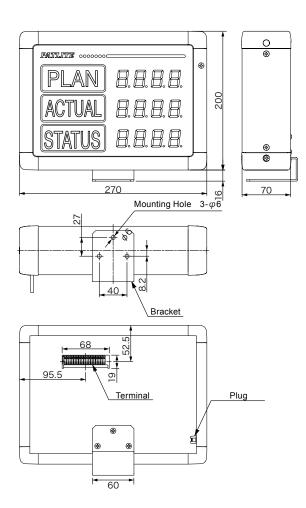




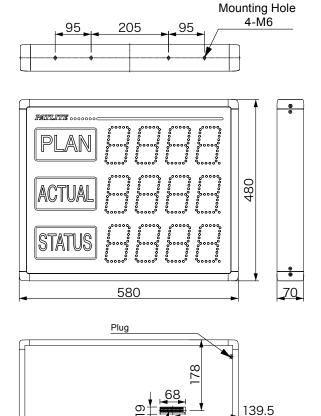




Model VE25-304SU



Model VE100-304SU



Terminal

WD-Z2



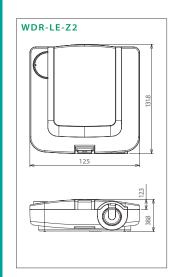
Monitor remotely and collect data wirelessly from a PATLITE Signal Tower

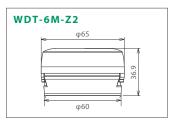
PATLITE wireless add-on modules and receivers make PATLITE Signal Towers capable of sending electrical signals over a wireless network to a data center. PATLITE wireless add-on modules and receivers are a uniquely practical and economical solution for data acquisition, machine status remote monitoring, 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.

WDT-6M-Z2

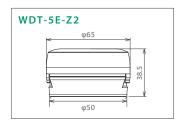
- 1) Simply add-on to a PATLITE Signal Tower
 Operating conditions of Patlite signal towers installed on production machines or process systems can be transmitted wirelessly to a data center. Data acquisition and remote monitoring are possible instantly and economically through the WDR-Z2 receiver.
- 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)



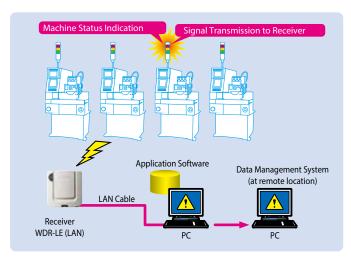




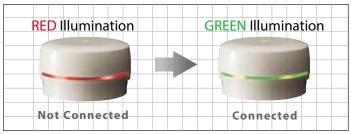


Typical Applications

- 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



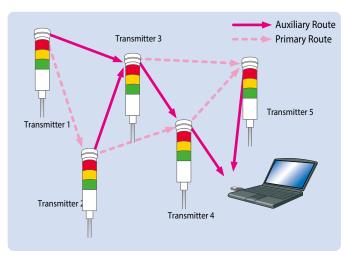
Network Connection Condition



* 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 to the bracket. (Some applications don't require additional wiring.)

Specifications

Transmitters

Model	WDT-6M-Z2	WDT-5E-Z2		
Applicable Signal Tower	Ф60 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 F			
Dimensions (mm)	Ф65 х 36.9	Ф65 х 38.5		
Mass	55g			
Ask your PATI ITE Sales Representative for WD-72 compatable PATI ITE Signal Towers				

Receiver

WDR-LE-Z2 (LAN/USB)
DC 24V (Power Supply not included)
DC 20.4V - 26.4V
150mA
-10°C - +60°C (No Condensation)
-20°C - +70°C (No Freezing)
RH 85% or less
Horizontal, Wall-mount (Indoors Only)
IP20
131(H)x125(W)x38.5(D)
165g

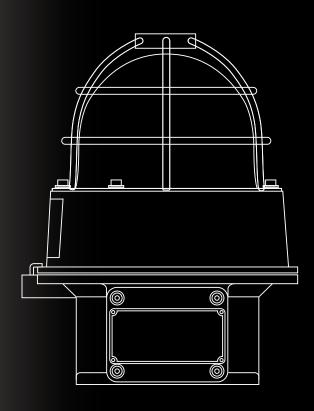
Features

Wireless Standard	IEEE 802.15.4 for Zigbee 2.4GHz
Frequency Bandwidth	2,400MHz - 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	hits 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 601 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



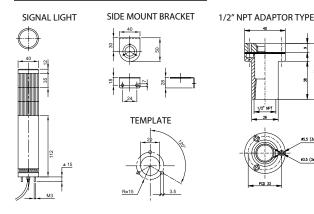
1/2" NPT *1/2 NPT Adaptor also available



Side-mount Bracket

Explosion-Safe Signal Tower φ40mm with sealed cable

Dimensions (Unit: mm)

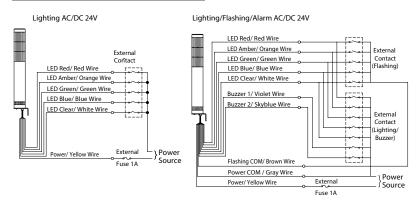


Specifications

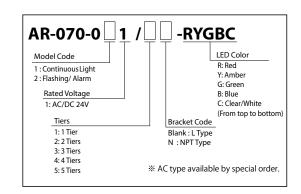
Explosion-safety	CE Ex II3 GD; Ex nA IIC T4 Gc: Ex tc IIIC T85°C Dc IP65
CE Conformities	EN 60079-0, EN 60079-15, EN 60079-31
Certification	EC Declaration of Conformity
Ambient Temperature	-30°C - +60°C
Ingress Protection	IP65 to EN 60529
Material	ABS Tower Body
Lighting Source	Multiple LED's with Double 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	Signal Line Current		Inrush Current		
Red, Amber	Green, Blue, Clear	Signal Line Current	illiusii Curielii		
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

- Explosion-Safe for gas and dust
- Suitable for Zone 2 and Zone 22
- CE Compliance in accordance to ATEX
- Full and brilliant lumination

FEATURES

- 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







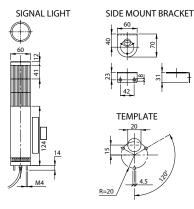
Explosion-Safe

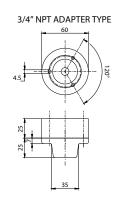
Φ60

Explosion-Safe Signal Tower φ60mm with sealed cable

Dimensions (Unit: mm)

Side-mount Bracket



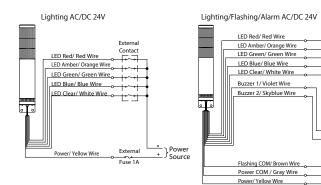


Specifications

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	BUZZI	ER		
Signal	Signal Line Current		Inrush Current		
Red, Amber	Green, Blue, Clear	Signal Line Current	illiusii Cullelii		
ab. 30mA	ab. 25mA	ab. 40mA	ab. 250mA		

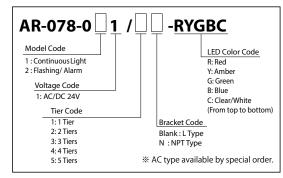
Wiring



How to Order

External

Contact (Lighting/ Buzzer)



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

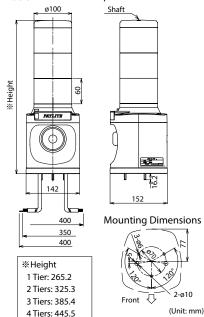
FEATURES

- 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



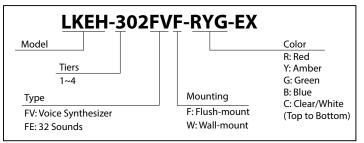
Dimensions (Unit: mm)

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



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

How to Order

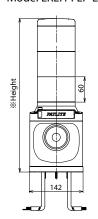


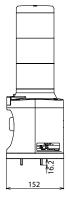
Model	MP3	Power
LKEH-FEF-EX/LKEH-FEW-EX	_	14.2W
LKEH-FVF-EX/LKEH-FVW-EX	Supports	14.2W

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	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	Rated Voltage	MP3, Melody	Operating Temperature Range	Recordable Duration	Mounting Brackets	Channels	Mass
LKEH-FEF-EX		Type-E		Pre-recorded	Flush-mount	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		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

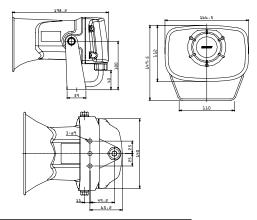


- · Protection Rating of IP65.
- Explosion-Safe for gas and dust
- Suitable for Zone 2 and Zone 22
- CE Compliance in accordance to ATEX
- · EHS-EX comes with 32 preloaded melody and alarm sounds with adjustable volume up to 110dB (at 1m).
- Robust, indoor and outdoor use with vibration resistance up 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).

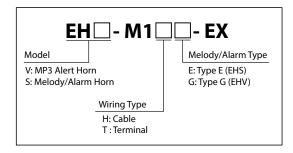


Explosion-Safe

Dimensions (Unit: mm)

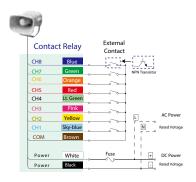


How to Order

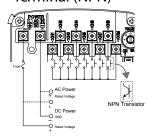


Wiring

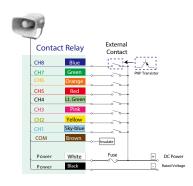
Non-voltage (NPN) Wiring



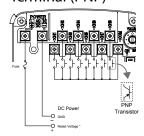
Terminal (NPN)



PNP Wiring



Terminal (PNP)



Specifications

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	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	1.25kg
EHS-M1T-EX EHV-M1H-EX					Alarm: 110dB (at 1m)	-20°C to +50°C	Bit Input: 8		Terminal Cable	
EHV-M1T-EX	DC 12 - 24V	DC 10.8V to 26.4V	4W (at DC24V)	400mA (max)	MP3: 105dB (at 1m)	(Less than 85% RH)	Binary Input: 63	IP65	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

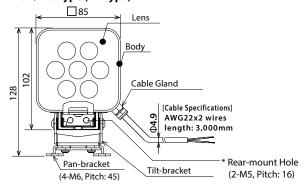
Explosion-Safe

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 Dissipation	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}
VIDIALIOII NESISLAIICE	(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









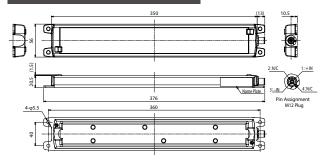
- · Aluminum Housing
- Tempered glass lens
- IP66G/67G/69K ratings
- Explosion-safe for gas and dust
- Suitable for Zone 2 and Zone 22
- Temperature Range of -40°C to +60°C
- CE Compliance in accordance to ATEX
- 1,200 lx (3S/3C) and 2,100 lx (6S) brightness
- · Outdoor installation allows Upright installation 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



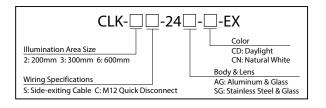
IP66G/67G/69K

kplosion-Safe

Dimensions (Unit: mm)



How to Order



Model	CLK-
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



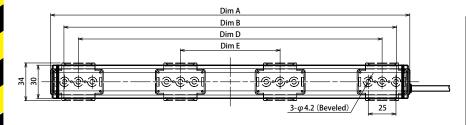
IP66/67/69K

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 D	Dim E	Standard Bracket
Name	Total Length	Lighting Area	Mountii	ng Pitch	SZ-310AR
CLA1S	124	100	74		
CLA2S	224	200	174		2 ncc
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



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		104mA	140 lx			80g
CLA2S -24-CD-30-EX	Daylight	200mm		208mA	270 lx			130g
CLA3S -24-CD-30-EX	Daylight	300mm		240mA	400 lx			180g
CLA3S -24-CN-30-EX	Natural White	300111111	DC 24V	2401117	4001X	Any Direction	19.6m/s ²	1809
CLA6S -24-CD-30-EX	Daylight	600mm	(Polarized)	480mA	650 lx	(Indoors Only)	19.011/3	340g
CLA6S -24-CN-30-EX	Natural White	00011111		400111A	0301X			3409
CLA9S -24-CD-30-EX	Daylight	900mm]	720mA	810 lx			500g
CLA12S -24-CD-30-EX	Daylight	1200mm		960mA	890 lx			660g



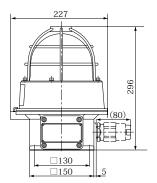
Robust Heavy Duty Revolving Warning Light.

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

Г	NAI - I	Data di Valta na	-1)/-14		Bu	ılb	
	Model	Rated Voltage	Current	(fpm)	Ratings	Repl. No.	Mass
\bigcirc	RES-12A	DC 12V	0.9A	170	12V 10W	9	
\bigcirc	RES-24A	DC 24V	0.5A	170	24V 10W	10	
0	RES-48A	DC 48V	0.3A	150	48V 10W	11	
	RES-100A	AC 100V - 110V	0.1A				6.5kg
0	RES-120A	AC 115V - 120V	0.14	170	12V 5W	12	
	RES-220A	AC 200 - 220V	0.05A	170	120 300	12	
0	RES-240A	AC 230 - 240V	U.USA				

Bulb: G18 BA15S

Special Order





Signal Tower





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

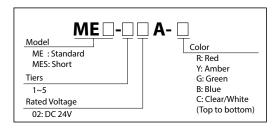
FEATURES

- 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

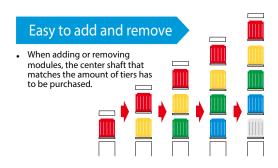
- Cable: Versatile and flexible 3m cable.
- IP65 (for ME/MES).
- · PNP Compatible: ME and MES 24V Types.

How to Order



Patented reflection

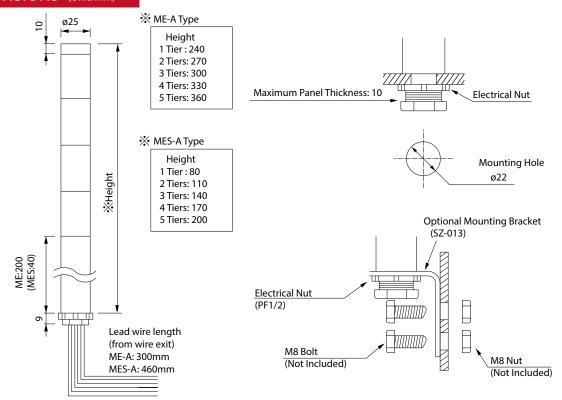




Interchangeable LED Modules Changeable color sequence: Easy to add/ remove up to 5 colored modules even after installation. Note: LED modules of the same color within a signal tower will light up simultaneously. Wiring doesn't change

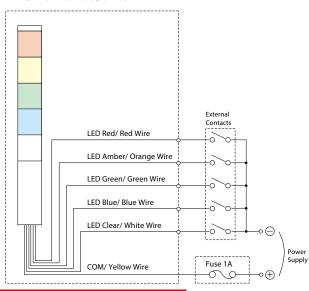
NPN

Dimensions (Unit: mm)

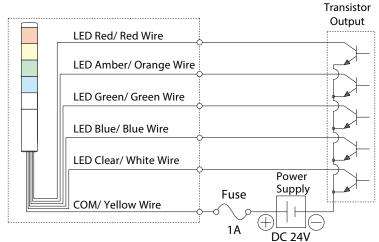


Wiring

• 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	1	
	ME/MES-102A-C		0.5W	1	
	ME/MES-202A-RY	DC 24V	1.2W		130g
2 Tiers	ME/MES-202A-RG		1.1W	230g	
2 Hers	ME/MES-202A-RB		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	İ	
4 Tiers	ME/MES-402A-RYGB		2.3W	250g	150g
4 Hers	ME/MES-402A-RYGC		2.3W	2309	1309
5 Tiers	ME/MES-502A-RYGBC		2.8W	260g	160g

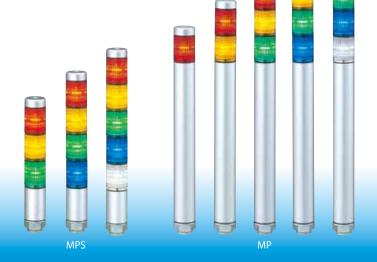
MP/MPS Signal Tower







Patented reflection system increases visibility.



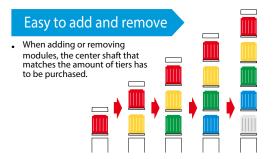
Super slim 30mm silver body Signal Tower, ideal for small devices.

FEATURES

- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and
- 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

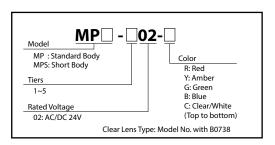
Changeable color sequence: Easy to add/ remove up to 5 colored modules even after installation.

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

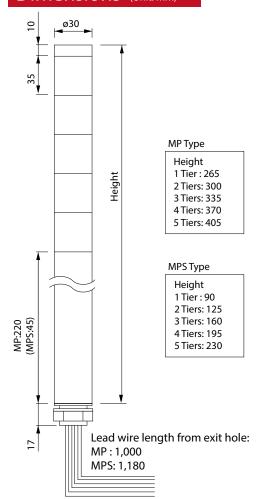
Wiring doesn't change

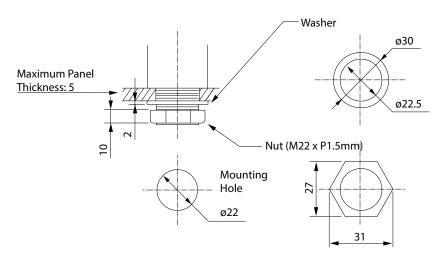
The LED Module colors correspond to the wiring, so re-wiring is not necessary.

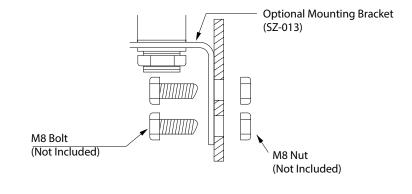
How to Order



Stack	Model	Rated Voltage	Power	Mass	
Number	Model	hated voitage	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

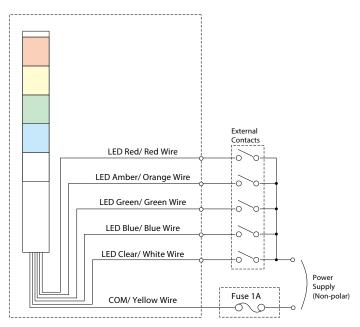


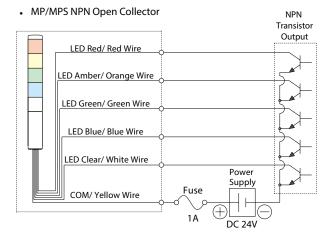




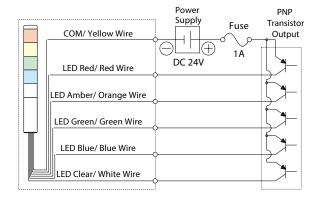
Wiring

· MP/MPS Contact/ Switch

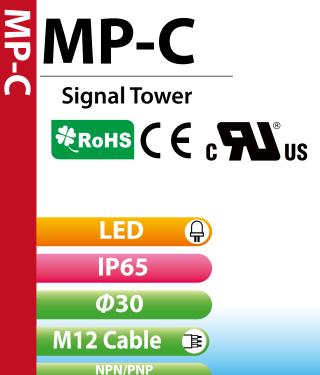




MP/MPS PNP Open Collector











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

FEATURES

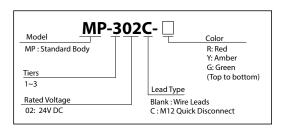
- Quick Disconnect M12 connector for the MP Signal Tower.
- · PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- · Double-insulated construction for enhanced durability and safety in the work environment.
- · Direct mount installation with just 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)



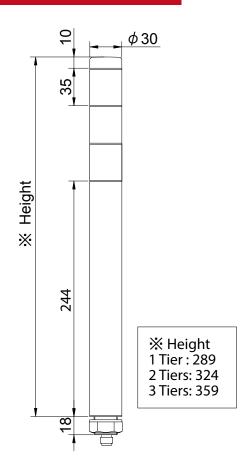
Optional MP-B Buzzer (See Pg. 193)

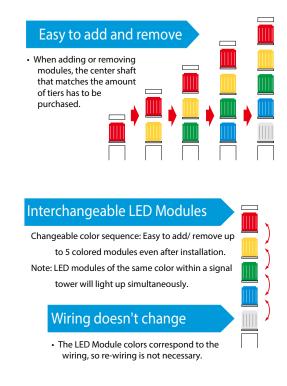
Patented reflection system increases visibility.

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





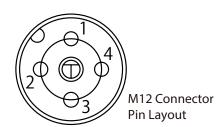
Wiring

External Contact Capacity		Is: Current Capacity		Vs: Withstand Voltage	
LED Unit (1 Tier)	Current Consumption	Red: 29.mA	Amber: 29	.5mA Green: 23.9mA	
LED Unit (1 Tier)	Capacity	Is≥50mA		Vs≥35V DC	
Power Supply	Current Consumption		200r	mA	
Fower Supply	Capacity	ls≥200mA		Vs≥35V DC	

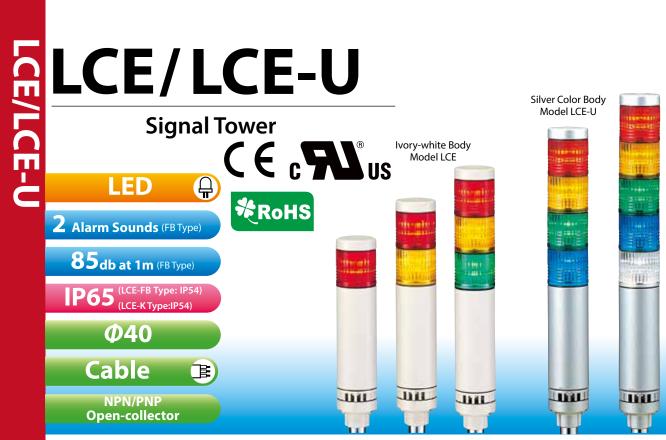
M12 Connector Pin No.

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

MP-C M12 Connector











djustable Volume lax. 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 distributed evenly illumination.

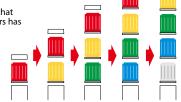
The low-priced, high quality LED Signal Tower featuring low maintenance and energy savings.

FEATURES

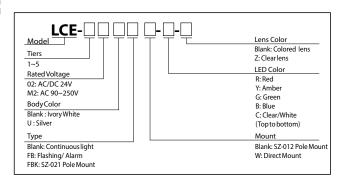
- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving
- Two Built-in Alarms (FB Type) with selectable sound patterns.
- Adjustable 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



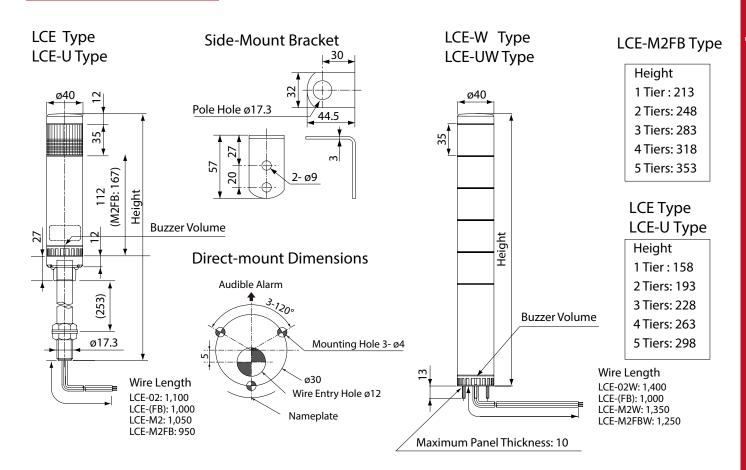
Interchangeable LED Modules

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	Potent Valtage Power	М	Mass			
Number	Model	Rated Voltage	Consumption	LCE	LCE-W	LCE-FB	LCE-FBW
1 Tier	LCE-102(U)	AC/DC 24V	1.7W	520g	160g	580g	220g
i ner	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
2 Hels	LCE-5M2	AC 90 -250V	4.4W	720g	360g	770g	410g

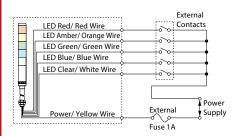




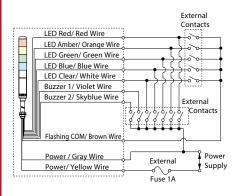


Wiring

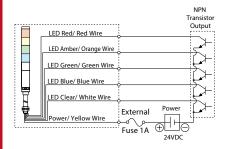
AC/DC 24V Lighting Type



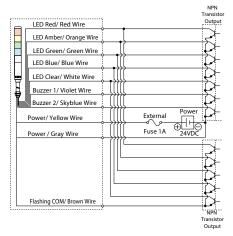
• AC/DC 24V Lighting/Flashing Type



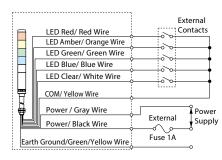
• DC 24V NPN Type



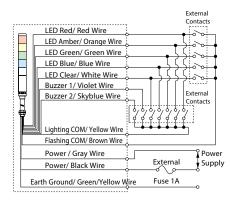
• DC 24V NPN FB Type



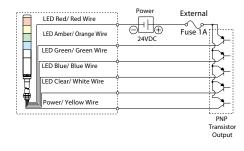
• AC 90 - 250V Lighting Type



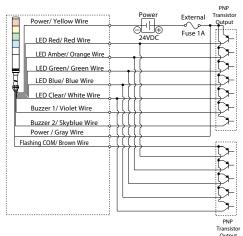
• AC 90 - 250V Lighting/Flashing Type



• DC 24V PNP Type



• DC 24V PNP FB Type



Signal Line voltage and current per LED Module

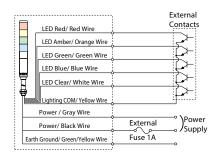
		c: 11:	LED		Alar	m
Model	Rated Voltage	Signal Line Voltage	Signal Line Co	urrent	Signal Line	Inrush
		70.6490	R, Y	G, B, C	Current	Current
LCE/LCE-U	AC/DC 24V	AC/DC 24V	30mA	25mA	40mA	250mA
LCE-M2	AC 90V - 250V	DC 24V	30mA	25mA	40mA	250mA

Lead-wire color coordination table

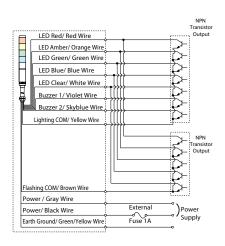
LED Unit Color	Lead Wire Color
Red	Red
Amber	Orange
Green	Green
Blue	Blue
Clear/White	White

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

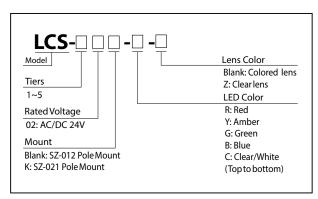
- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Direct or pole mount installation.
- Color-coordinated wiring 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

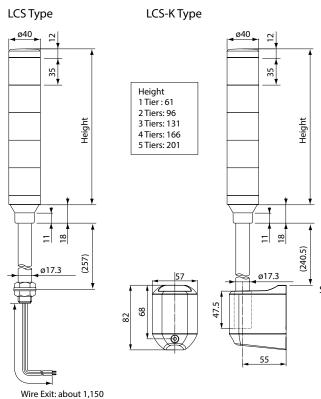
- · Cable: Versatile and flexible 3m cable.
- Body Color: Silver (LCS-U)
- All Clear Lenses: Distinctive color recognition when operated with clear lenses (B0738 type)
- · Available Colors: Red, Amber, Green, Blue, White

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

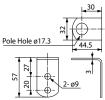


Stack	Model	Rated Power	Mass		
Number	Model	Voltage	Consumption	LCS	LCS-K
1 Tier	LCS-102		0.7W	420g	540g
2 Tiers	LCS-202		1.4W	450g	570g
3 Tiers	LCS-302	AC/DC 24V	2.0W	480g	600g
4 Tiers	LCS-402		2.6W	510g	_
5 Tiers	LCS-502		3.2W	540g	_



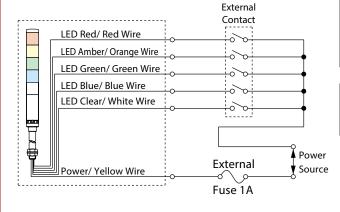


Side-Mount Bracket



Wiring

AC/DC 24V Lighting Type



Lead-wire color coordination table

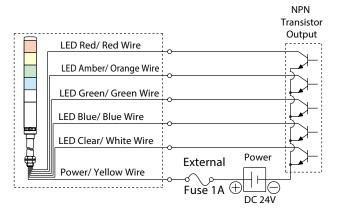
LED Unit Color	Lead Wire Color		
Red	Red		
Amber	Orange		
Green	Green		
Blue	Blue		
Clear/White	White		

Alarm Sounds	Lead Wire Color
Buzzer 1	Purple
Buzzer 2	Skyblue

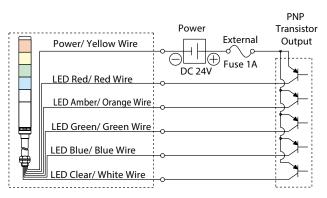
Signal Line voltage and current per LED Module

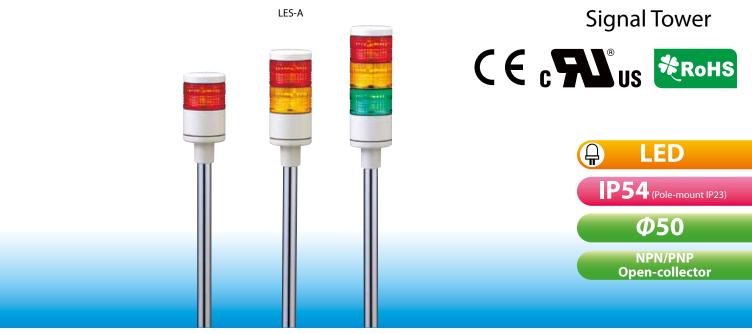
			LE	D	Ala	rm	
Model	Voltage		Signal Lin	e Current	Signal	Inrush	
Model	Type	Voltage	Type Voltage	R, Y	G, B, C	Line Current	
LCS	AC/DC 24V	AC/DC 24V	30mA	25mA	40mA	250mA	

DC 24V NPN Type



DC 24V PNP Type





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





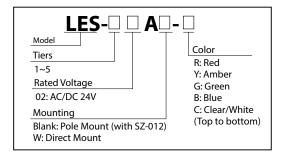
Dual Reflection System

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

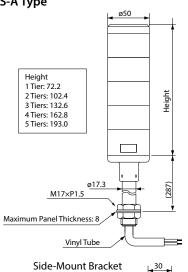
- PATLITE's exclusive Prism-Cut Lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Direct or pole mount installation.
- Main body is constructed of ABS 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

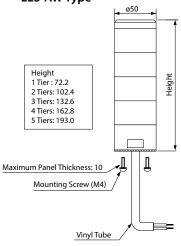


Stack N	lumber	Model	Rated Voltage	Power Consumption	Mass
	1 Tier	LES-102A		0.6W	500g
	2 Tiers	LES-202A		1.2W	530g
Pole Type	3 Tiers	LES-302A		1.7W	560g
	4 Tiers	LES-402A	AC/DC 24V	2.2W	590g
	5 Tiers	LES-502A		2.7W	600g
	1 Tier	LES-102AW	AC/DC 24V	0.6W	70g
Direct	2 Tiers	LES-202AW		1.2W	100g
Mount	3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

LES-A Type



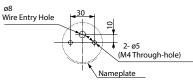
LES-AW Type



Lead-wire color coordination table

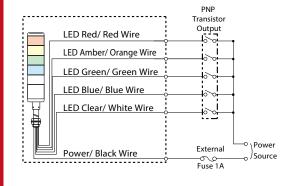
LED Unit Color	Lead Wire Color
Red	Red
Amber	Orange
Green	Green
Blue	Blue
Clear/White	White

Mounting Dimension

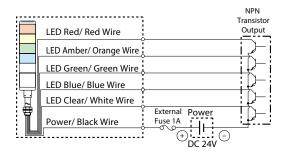


LES Model

AC/DC 24V Lighting Type



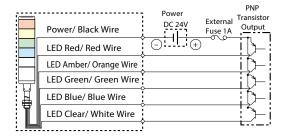
DC 24V NPN Type



Signal Line voltage and current per LED Module

Signal Line voltage and carrent per LLD Module					
		c		LED	
Model	Voltage Type	Signal Line Voltage	Sign	al Line Cur	rent
			R, Y	G, C	В
LES	AC/DC 24V	AC/DC 24V	25mA	20mA	22mA

DC 24V PNP Type





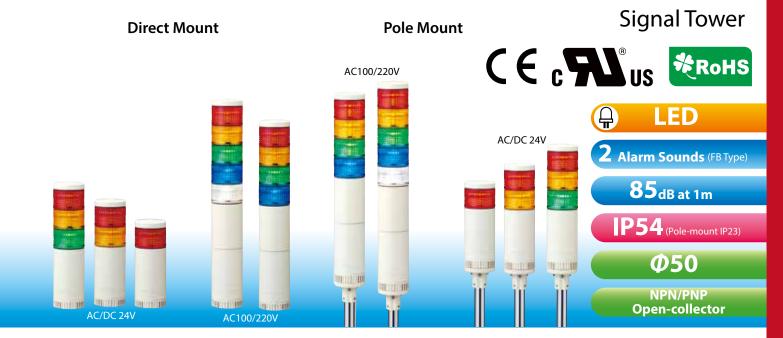












Versatile, cost and energy efficient LED Signal Tower for every need.



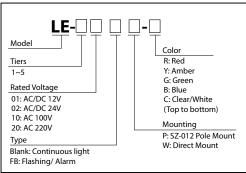
PATLITE's original dual reflection system with its exclusive hybrid prism-cut lens and five color LED modules, creates a bright and evenly distributed illumination.

FEATURES

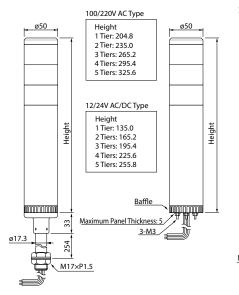
- PATLITE's exclusive Prism-Cut Lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Two built-in alarms (FB Type) with selectable sound patterns.
- Adjustable volume of up to 85dB (at 1m).
- · Direct or pole mount installation.
- Color-coordinated wiring corresponding to the lens color for quick 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).

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.

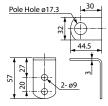
How to Order



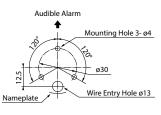
LE Type LE-FB Type



Side-Mount Bracket



Mounting Dimension



Specifications

Stack	Model	Rated	Power	Mass	
Number	Model	Voltage	Voltage Consumption		(FB)W
	LE-101	AC/DC 12V	1.1W	640g	260g
1 Tier	LE-102	AC/DC 24V	1.6W	0409	
I Hel	LE-110	AC 100V	5.7W	780g	400g
	LE-120	AC 220V	3.7 ٧٧	7809	4009
	LE-201	AC/DC 12V	1.7W	690g	310g
2 Tiers	LE-202	AC/DC 24V	2.2W	0909	3109
2 11613	LE-210	AC 100V	6.7W	830g	450g
	LE-220	AC 220V	0.7 VV	8309	
	LE-301	AC/DC 12V	2.2W 2.7W 7.5W	740g	360g
3 Tiers	LE-302	AC/DC 24V			
3 11613	LE-310	AC 100V		880g	500g
	LE-320	AC 220V	7.5		
	LE-401	AC/DC 12V	2.7W	790g	410g
4	LE-402	AC/DC 24V	3.2W	7909	
4 Tiers	LE-410	AC 100V	8.3W	930g	550g
	LE-420	AC 220V	0.5	930g	
	LE-501	AC/DC 12V	3.2W	040~	1600
5 Tiers	LE-502	AC/DC 24V	3.7W	840g	460g
) Hers	LE-510	AC 100V	9.1W	980g	C00=
	LE-520	AC 220V	9. I VV	<i>3</i> 009	600g





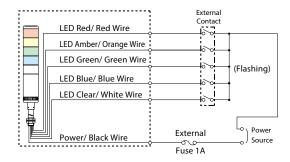




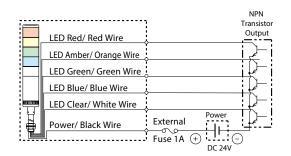
Wiring

LE Model

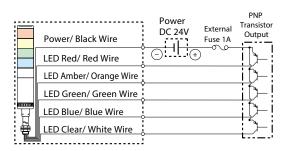
AC/DC 24V Lighting Type



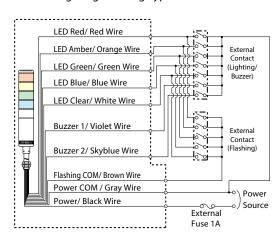
DC 24V NPN Type



DC 24V PNP Type

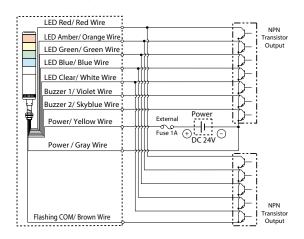


AC/DC 24V Lighting/Flashing Type

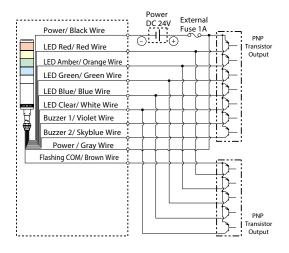


LE Model

DC 24V NPN FB Type



DC 24V PNP FB Type



Signal Line Voltage and Current per LED Module

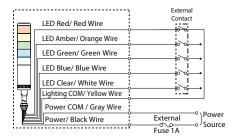
Signar Eine Voltage and Carrent per LED Module						
	6	LED		Alarm		
Voltage Type	Signal Line Voltage	Signal Line Current		Signal Line	Inrush	
	Voltage	R, Y	G, C	В	Current	Current
AC/DC 12V	AC/DC12V	50mA	40mA	44mA		
AC/DC24V	AC/DC 24V	25mA	20mA	22mA	40mA	150mA
AC 100V, 220V	DC 24V	25mA	20mA	22mA		

Lead-wire color coordination table

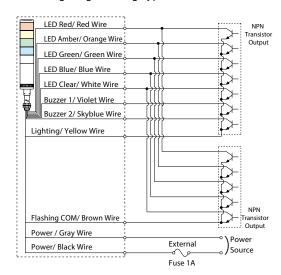
LED Unit Color	Lead Wire Color
Red	Red
Amber	Orange
Green	Green
Blue	Blue
Clear/White	White

Alarm Sounds	Lead Wire Color
Buzzer 1	Purple
Buzzer 2	Skyblue

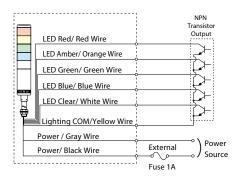
AC Power Lighting Type



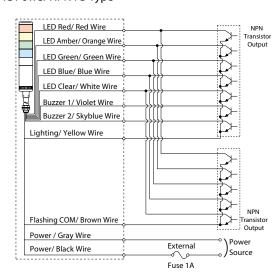
AC Power Lighting/Flashing Type



AC Power NPN Type



AC Power NPN FB Type



FLU5

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

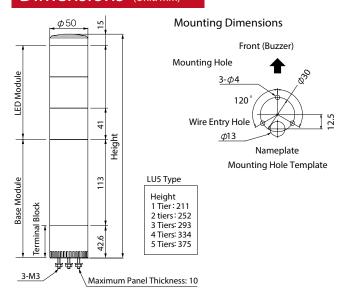
LED Module LU5-E-R		Base Unit LU5-<u>02</u>U		JFB
LED Unit	Color R: Red Y: Amber G: Green B: Blue C: White/Clear	Rated Voltage 02: DC 24V Base Color Blank: Ivory V U: Silver K: Black	White	Type Blank: Continuous Light FB : Flashing/ Alarm

Specifications (Module)

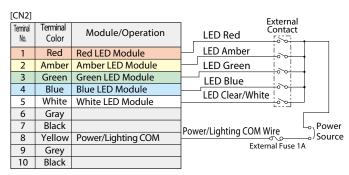
Module Color	Model	Rated Voltage	Operating Voltage Range	Current/ Power Consumption	Mass
RED	LU5-E-R		21.6V - 26.4V	44mA/1.06W	44g
AMBER	LU5-E-Y				
GREEN	LU5-E-G	DC 24V		17mA/0.41W	
BLUE	LU5-E-B				
CLEAR	LU5-E-C				

Specifications (Base)

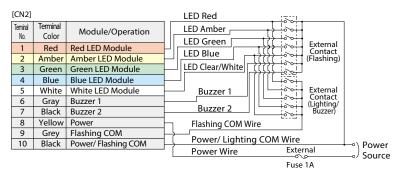
Model	Options	Rated Voltage	Operating Voltage Range	Open Collector	Mass
LU5-02	Continuous	DC 24V	21.6V - 26.4V	NPN/PNP	182g
LU5-02FB	2 Sounds/Flash	DC 24V			200g



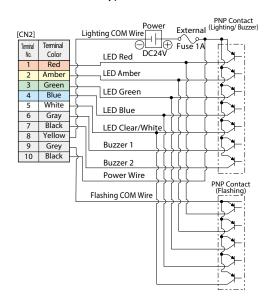
• AC/DC 24V Lighting Type



AC/DC 24V Lighting/Flashing Type

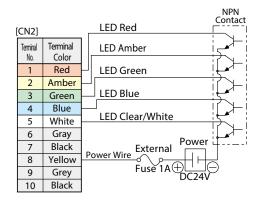


• DC 24V PNP FB Type

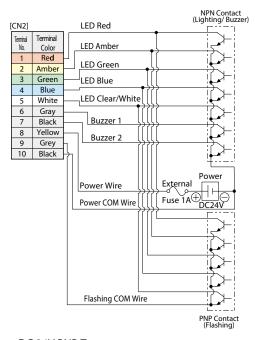


Wiring

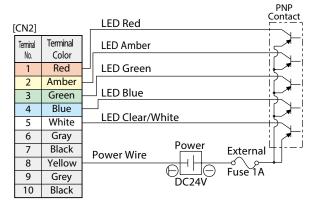
• DC 24V NPN Type



• DC 24V NPN FB Type

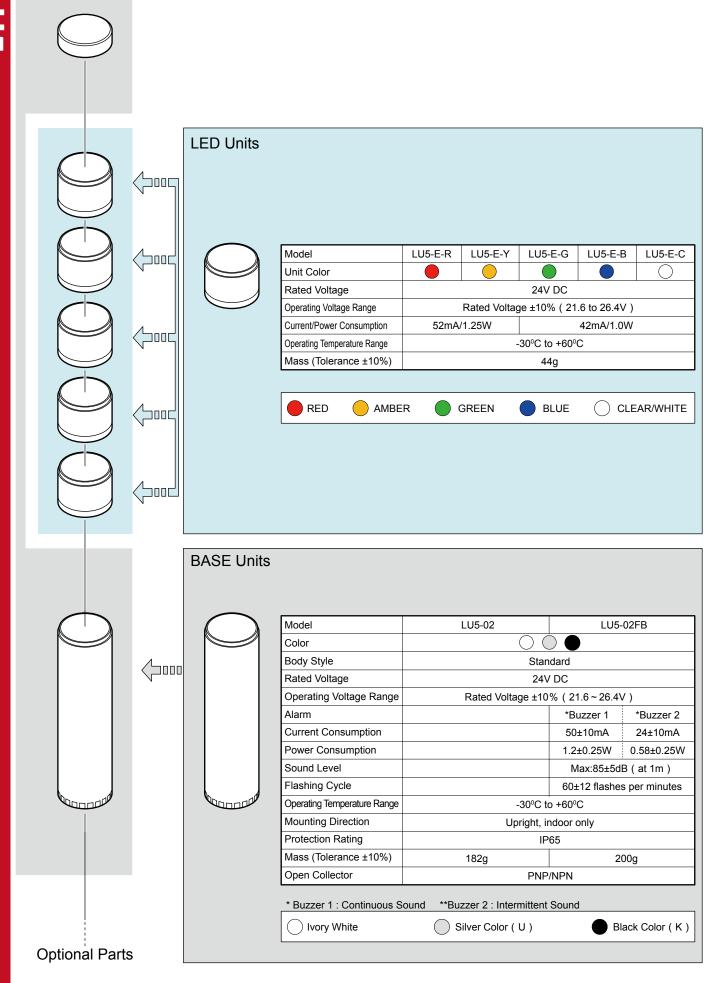


• DC 24V PNP Type

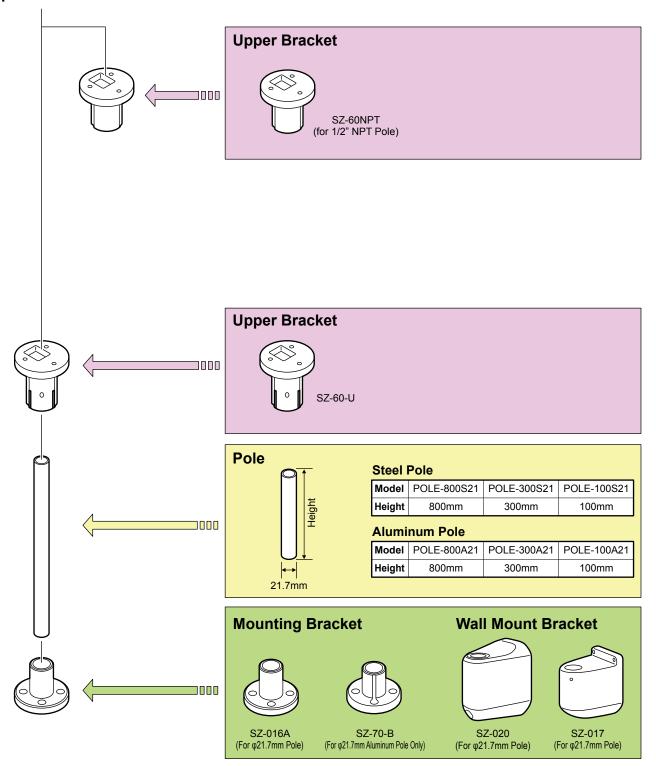


External Contact Capacity

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



Optional Parts







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





Max. 90dB 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.

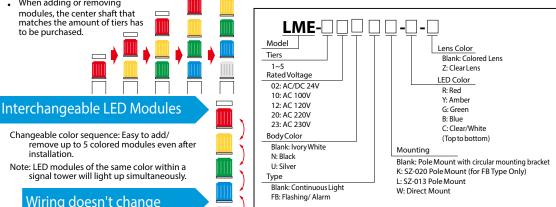
FEATURES

- 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)



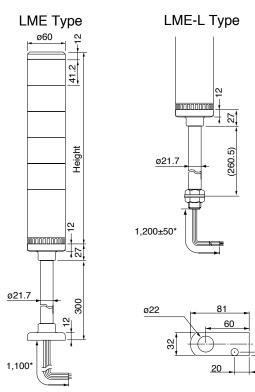
When orderina clear-lens Signal Tower type, be sure to add "-Z" at the end of the part number when ordering.

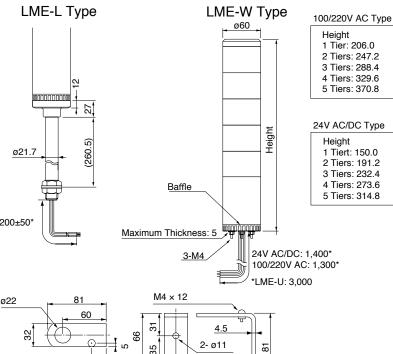
How to Order Easy to add and remove When adding or removing



installation.

Dimensions (Unit: mm)













Specifications

		r — — —	1				
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	0.731	1.10kg	0.57kg	
	LME-220	AC 220V	7.100	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			1.14kg		
3 Tiers	LME-312	AC 120V	7.9W	0.78kg	1.14kg	0.62kg	
	LME-320	AC 220V	7.900	0.76Kg		0.62kg	
	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	0.671	
	LME-420	AC 220V	0.7 VV	0.65kg		0.67kg	
	LME-423	AC 230V			_		
	LME-502	AC/DC 24V	4.6W	0.63kg	0.93kg	0.47kg	
	LME-510	AC 100V			1.22kg	0.721/a	
5 Tiers	LME-512	AC 120V	9.5W	0.86kg	1.22Kg		
	LME-520	AC 220V	۷.۵۷۷	U.OUKG		0.72kg	
	LME-523	AC 230V					

Lead-wire color coordination table

Lead Wire Color		
Red		
Orange		
Green		
Blue		
White		

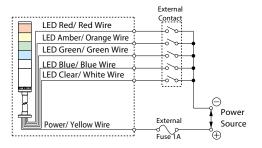
Alarm Sounds	Lead Wire Color		
Buzzer 1	Purple		
Buzzer 2	Skyblue		

Signal Line voltage and current per LED Module

	<i>c.</i>	LE		Alarm		
Rated Voltage	Signal Line Voltage	Signal Lin	e Current	Signal Line	Inrush Current	
l	ronage	R, Y	G, B, C	Current		
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

• DC 24V NPN FB Type

Power/ Yellow Wire

LED Red/ Red Wire

LED Amber/ Orange Wire

LED Green/ Green Wire

LED Blue/ Blue Wire

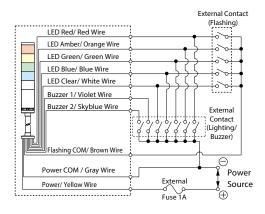
LED Clear/ White Wire

Buzzer 1/ Violet Wire

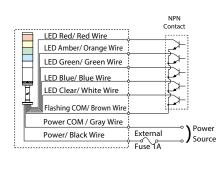
Buzzer 2/ Skyblue Wire

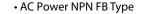
Power COM / Gray Wire

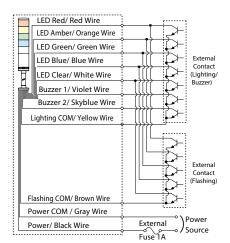
Flashing COM/ Brown Wire



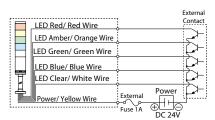
• AC Power NPN Type







• DC 24V NPN Type



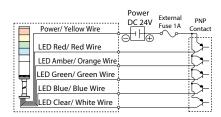
Fuse 1A

Contact

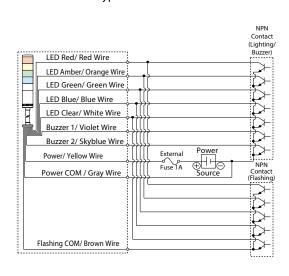
(Lighting/ Buzzer)

PNP Contact (Flashing)

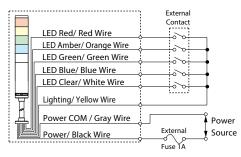
• DC 24V PNP Type



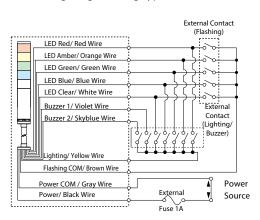
• DC 24V PNP FB Type













LME-S/LME-Q

Signal Tower





CECALUS (A)



2 Alarm Sounds (FB Type) 90dB at 1m (FB Type)

P65 (FB Type:IP54)

Cable

Φ60

NPN/PNP **Open-collector**

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





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.

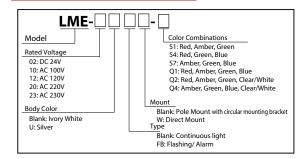
FEATURES

- 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



Specifications

Series Stack		Model	Rated Voltage	Power	Mass		
Jenes	Number	Model	nated voitage	Consumption	LME	LME-W	
		LME-102	DC 24V	2.2W	430g	270g	
		LME-110	AC 100V			520g	
LME-S	1 Tier	LME-112	AC 120V	5.1W	860g		
		LME-120	AC 220V	3.100			
		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	C00=	520g	
		LME-120	AC 220V	J.1VV	680g	320g	
		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

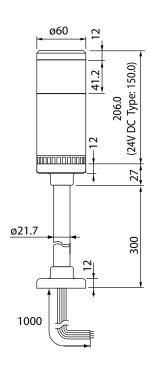


Clear Lens

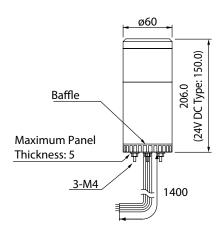
Patlite's new single-tier, multi-color unit is ideally suited for installations requiring a multiple color display but has limited vertical space. The clear lenses are easily distinguishable between lit and unlit lamps, and the unlit look can integrate visually with the equipment it is attached to.

Dimensions (Unit: mm)

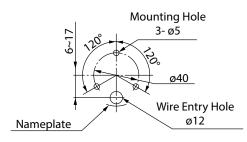
LME Type



LME-W Type



Mounting Dimensions (LME-W)





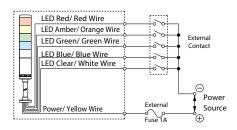




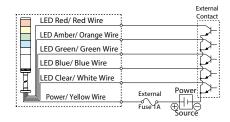


Wiring

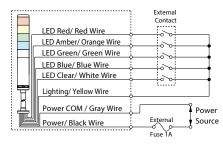
• DC 24V Lighting Type



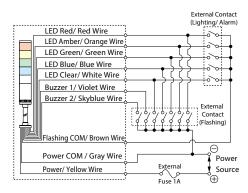
• DC 24V NPN Type



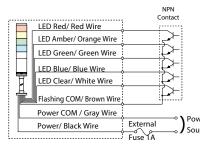
• AC Power Lighting Type



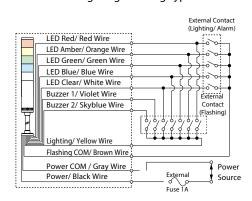
• DC 24V Lighting/Flashing Type



· AC Power NPN Type



• AC Power Lighting/Flashing Type



LME-S/Q Lead-wire Color Table

	LED Unit Color	Lead Wire Color				
S 1	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

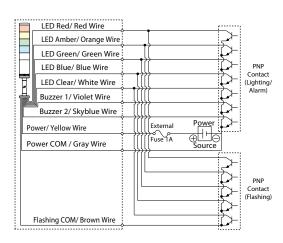
orginal zame vortage arra carrent per zzo medane									
Rated Voltage	6. 11.	LE	D	Alarm					
	Signal Line Voltage	Signal Lin	e Current	Signal Line	Inrush Current				
Voltage	voltage	R, Y	G, B, C	Current					
DC 24V	DC 24V								
AC 100V	DC 24V		20mA	40mA	250mA				
AC 120V		50mA							
AC 200V		JUILIA			ZJUITA				
AC 220V									
AC 230V									

Lead-wire color coordination table

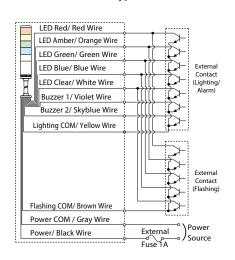
Lead Wife color coordination tax					
LED Unit Color	Lead Wire Color				
Red	Red				
Amber	Orange				
Green	Green				
Blue	Blue				
Clear/White	White				

Alarm Sounds	Lead Wire Color
Buzzer 1	Purple
Buzzer 2	Skyblue

• DC 24V NPN FB Type



AC Power NPN FB Type



LMS Signal Tower



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



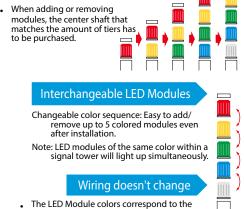


FEATURES

- 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).



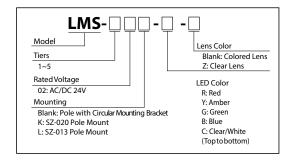
When ordering the clear-lens Signal Tower type, be sure to add "-Z" at the end of the part number when ordering.



wiring, so re-wiring is not necessary.

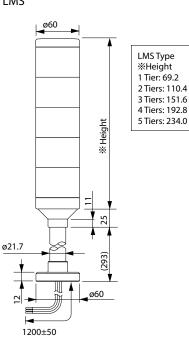
Easy to add and remove

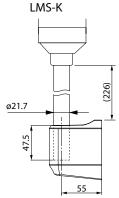
How to Order

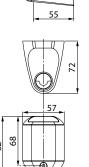


Dimensions (Unit: mm)

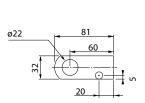








Standard Mounting Bracket



(10)

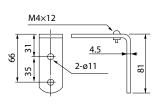
LMS-L

ø21.7

M22×P1.5

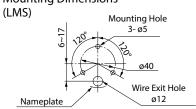
(0~16)

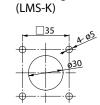






Mounting Dimensions

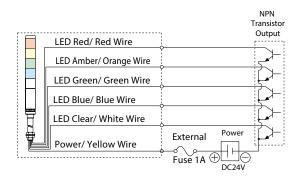




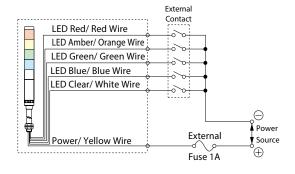
Mounting Dimensions

Wiring

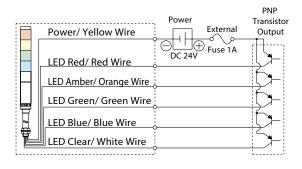
• DC 24V NPN Type



• AC/DC 24V Lighting Type



• DC 24V NPN FB Type



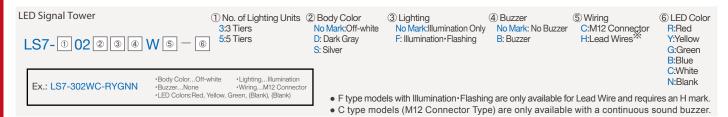
Specifications

Stack Mada	Model	Rated	Power	Mass			
Number	Model	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



Specifications

	Number of						Operating		Mass:			
Model	Lighting	Rated	Mounting	Rated Current	Maximum	Maximum Sound	Temperature	Protection	Lead-wir	e Type (H)	M12 Connector Type (C)	
Model	Units	Voltage	our.carg	Consumption	Rated Current	Pressure	Range	Rating	Illumination (No Mark)	Illumination/Flash/ 2 Alarms (FB)	Illumination (No Mark)	1 Alarm (B)
LS7-302	3 Tiers	DC 24V	Direct (Indoors	Red: 20mA Amber, Green, Blue,	Red: 35mA Amber, Green, Blue,	Buzzer1 ab. 82dB Lead-wire Type (Intermittent Beep1) M12 Connector Type (Continuous Beep)	-30°Cto+60°C (Less than	Illumination Type: IP65*	280g	370g	260g	320g
LS7-502	5 Tiers	(±10%)	Only)	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



A smooth-surfaced body without any metal exposed

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

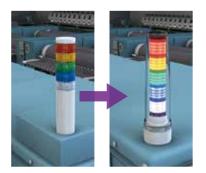
In addition to the existing lead wire, M12 connector quick disconnect is also available. Moreover, when moving to carry and to go out of the device, it is possible to detach it easily with Speaker Horn (Alarm Type)

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.

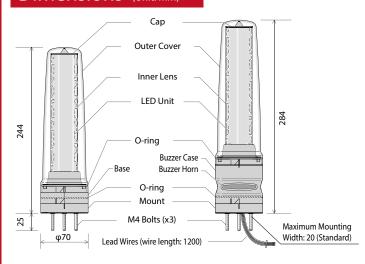


All-plastic Bracket

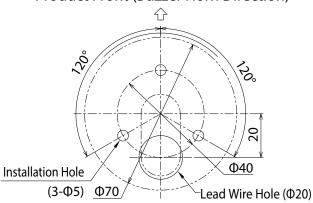
Like the body, the smooth-shaped platform bracket won't collect water or dust. Since no metal parts like screws and shafts are exposed, worries of food tampering can be put to rest in the food process lines.



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



Front (Audible Alarm Opening)

Nameplate Position (No Alarm)

Nameplate Position (With Alarm)

Nameplate Position (With Alarm)

Nameplate Position (With Alarm)

Nameplate Position (With Alarm)

Nameplate Position (With Alarm)

M12 Connector & Cable Manufactured by the OMRON Corp.) SZ-120-02 Cable Length 2 m (XS2F-D821-DH0-R)

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



O-ring for LS7

Material: Silicone

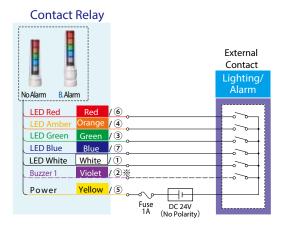


Mount Cover for LS7 (Accessory)

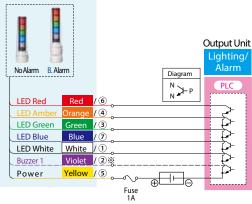
Material: Silicone



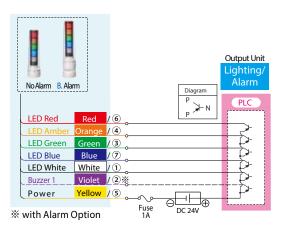
Wiring

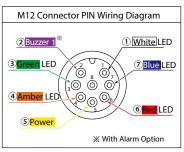


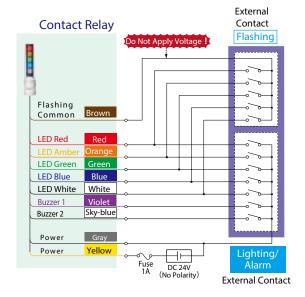




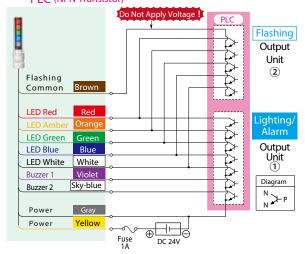
PLC (PNP Transistor)



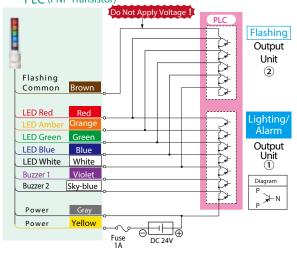




PLC (NPN Transistor)



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.



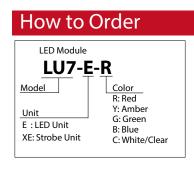


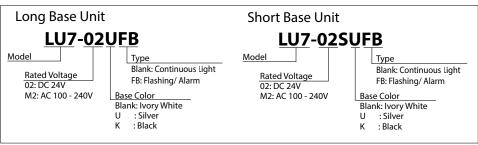
Versatile modular Signal Tower featuring easy assembly and wiring designed for every need.

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		LU7-02M2	LU7-02M2FB		Unit Color V		
Rated Voltage		DC	24V		AC 100 to 240V (50/60Hz)			Short Body		
Operating Voltage Range		DC 21.	6 - 26.4V		AC 90	to 250V (50/6	50Hz)	Ivory White	Silver	Black
Alarm	_	_	Buzzer 1*	Buzzer 2**	_	Buzzer 1*	Buzzer 2**			•
Current Consumption	_	-	50±10mA	24±10mA	_	50±10mA	24±10mA			
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±5		dB (at 1m)	LU7-02S	LU7-02SU	LU7-02SK
						Min: 70dB or less (at 1m)		Standard Body		
Flash Cycle	_	_	60±12 flashe	s per minute		60±12 flashes per minute		-		
Operating Temperature Range		-30°C t	:o +60°C		-25°C to +55°C					
Mounting Direction		Upright, Indoor Only							198	
Protection Rating		IP65 (IP66 with Cable Gland***)								
Mass (±10%)	150g	250g	28	0g	310g 340g		NAME OF THE PARTY			
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*		No. of Concession, Name of Street, or other teams, and the str			The 1921 III
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				

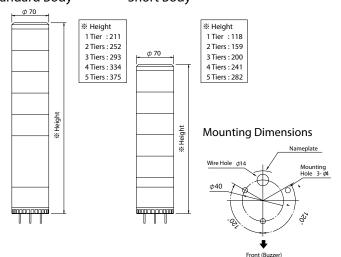
^{*}Operates on LU7-02, LU7-02FB, LU7-M2 and LU7-M2FB Base Units

LU7 LED Strobe Units**	1	10 TO 10		E day	100 100 100
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	290mA		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



Wiring

Supply

External Contact Capacity

Specifications

Contact Capacity

Current Red, Amber: 52mA LED Unit (1 Unit) Consumption Green, Blue, White/Clear: 42mA Contact ls≥100mA, Vs≥AC 35V Capacity Current 50mA Consumption Inrush Current 100mA Alarm ls≥100mA, Vs≥AC 35V Contact Capacity Current 360mA 40mA (250VAC) - 110mA (90VAC) Consumption Power

External Contact Fuse

Voltage
Fuse Amperage Rating

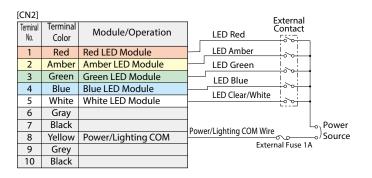
All Models
250V, 1A

9A (90V) - 25A (250V) Vs≥AC 250V

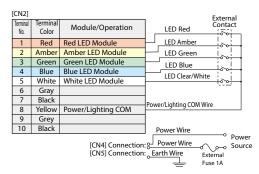
ls≥500mA Vs≥AC 35V

Wiring (cont.)

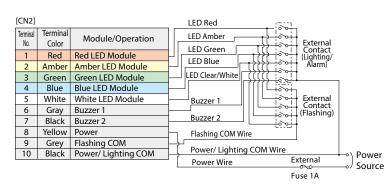
AC/DC 24V Lighting Type



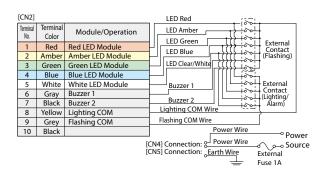
AC Power Lighting Type



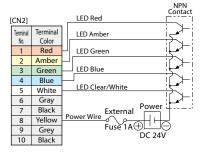
AC/DC 24V Lighting/Flashing Type



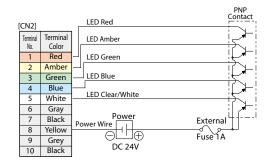
AC Power Lighting/Flashing Type



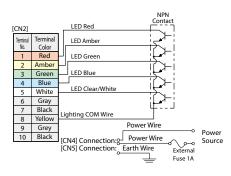
DC 24V NPN Type



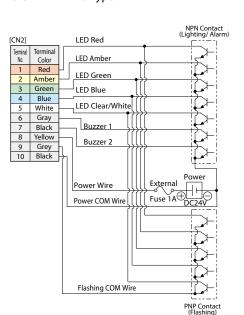
DC 24V PNP Type



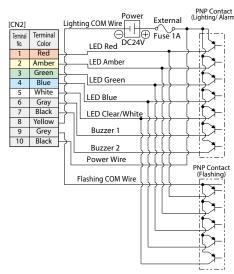
AC Power NPN Type



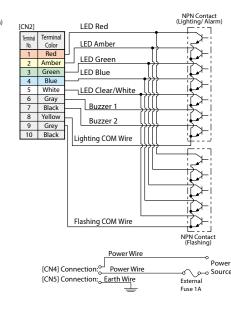
DC 24V NPN FB Type

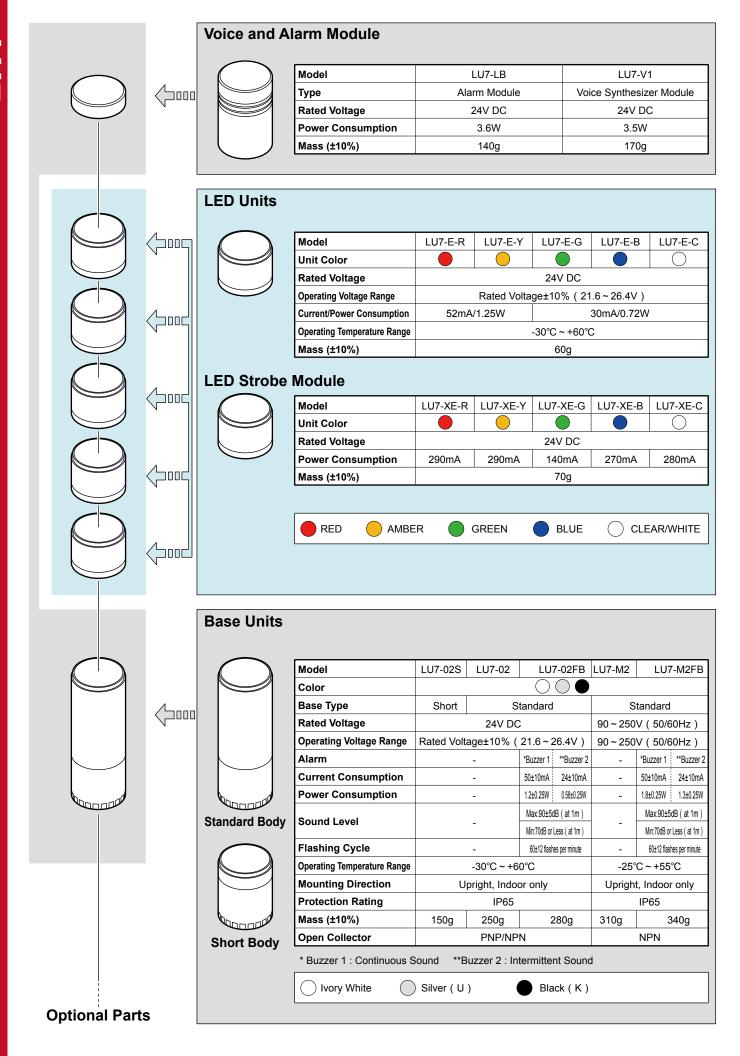


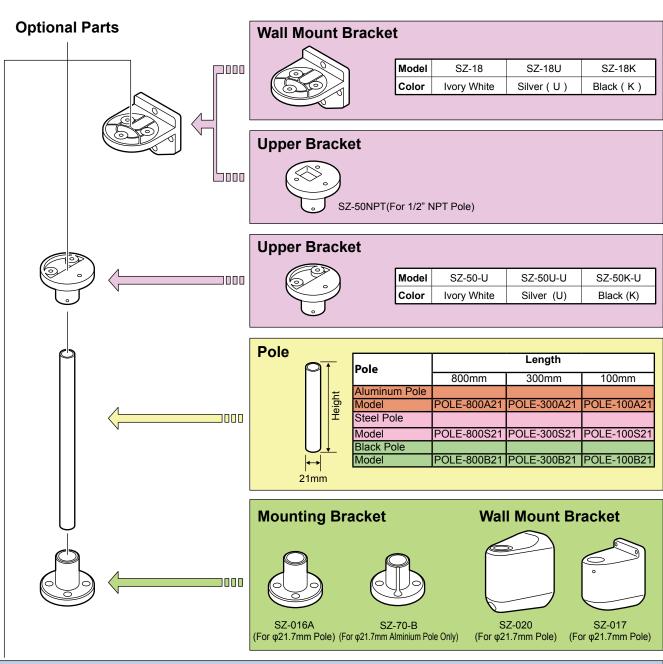
DC 24V PNP FB Type

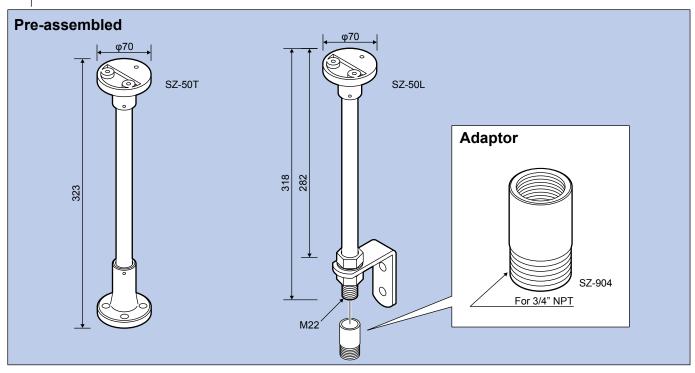


AC Power NPN FB Type









LU7-V1 Signal Tower



4 Messages (MP3)

80dB at 1m

IP65

Φ70

Open-collector



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

FEATURES

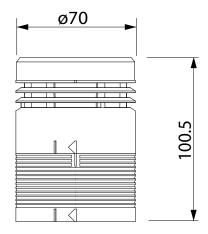
- Volume adjustable from 9dB to 80dB at 1m (depends on type of sound or message)
- High quality MP3 supported voice and sound module replays up to 4 alarms or messages with 32 seconds of total program time
- Playback sound selected by the position of internal jumper pin
- MP3 data is recorded before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

How to Order



Selectable playback sound · The jumper position determines the sound

Dimensions (Unit: mm)



Specifications

Model	Туре	Rated Voltage	Rated Current	Power Consumption	Mass
LU7-V1	MP3 Sound Alarm				170g

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.

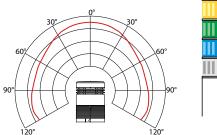


Diagram 1. Sound Direction





Signal Tower



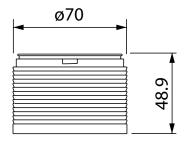


Stackable LED strobe module saves energy and requires low maintenance.

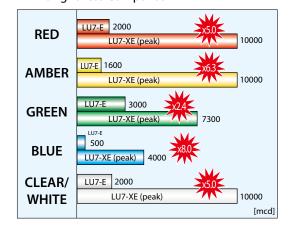
FEATURES

- 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)

90dB at 1m (FB Type)

P65 (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

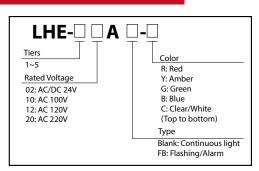
necessary.

FEATURES

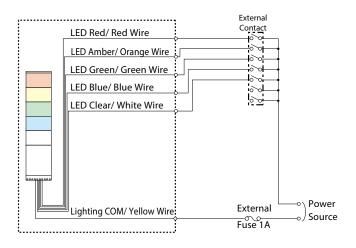
- · Original LED reflection system to improve brightness and provide maintenance-free operation.
- Two built-in alarms (FB type)
- Adjustable volume of up to 90dB (at 1m).
- Direct mount installation is standard; pole-mount is available with the optional mounting pole.
- Interchangeable Modules need 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).

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 cha

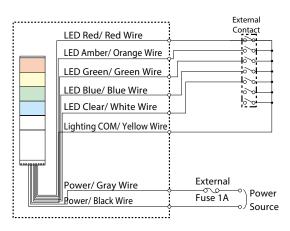
How to Order



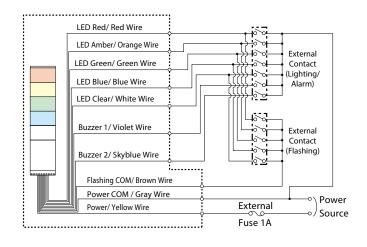
AC/DC 24V Lighting Type



AC Power Lighting Type



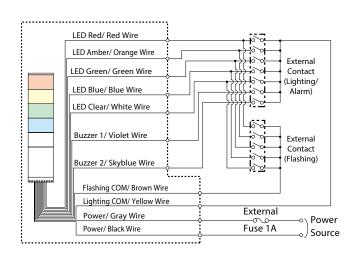
AC/DC 24V Lighting/Flashing Type



Signal Line voltage and current per LED Module

Ciarra II in a		LED		Alarm	
Rated Voltage	Signal Line Voltage	Signal Line Signal Line Current		Signal Line	Inrush
	ronage	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	401117	אוווטכו
AC 220V					

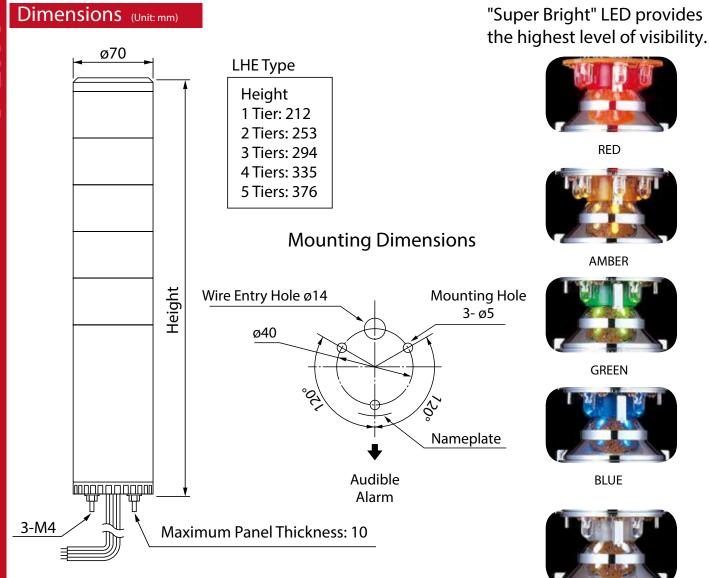
AC Power Lighting/Flashing Type



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



CLEAR/WHITE

Specifications

Stack Number	Model	Rated Voltage	Power Consumption	Mass
	LHE -102A/AFB	AC/DC 24V	2.2W	400g
1 Tier	LHE -110A/AFB	AC 100V		
1 1161	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 Hers	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]	



Signal Tower







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

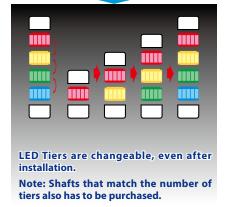


PATLITE's triple-reflection system creates an even brighter and distinctive illumination with its exclusive hybrid prism-cut lens for 5 color LED module variations.

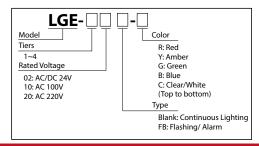
Interchangeable LED Modules

FEATURES

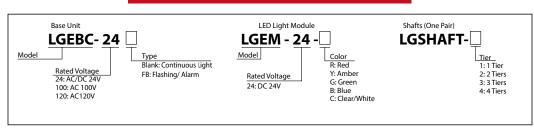
- PATLITE's large prism cut lens to enhance illumination in the downward direction. (Lens Size: ϕ 100mm x 60mm high)
- The FB type offers a flashing and continuous lighting pattern.
- A built-in buzzer (FB type) has a sound of up to 85dB (at 1m).
- · Direct mount Installation.
- Interchangeable Modules 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	1.0kg
	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	1.2kg
	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 /1/0
	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	1.0kg	
	LGE-120FB	AC 220V	3.7 ٧٧	1.0kg	
	LGE-202FB	AC/DC 24V	4.5W	0.6kg	
2 Tiers	LGE-210FB	AC 100V	8.2W	1.2kg	
	LGE-220FB	AC 220V	0.2 VV	1.2kg	
	LGE-302FB	AC/DC 24V	6.5W	0.8kg	
3 Tiers	LGE-310FB	AC 100V	10.7W	1.4kg	
	LGE-320FB	AC 220V	10.7 VV	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	

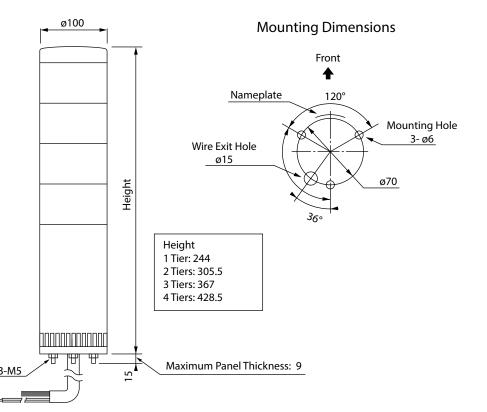
Specifications (Modules)

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	Continuous/
LGEBC-120FB	AC 120V	Flashing/Alarm
LGEBC-24FB	AC/DC 24V	i i lasiling/Alaini

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

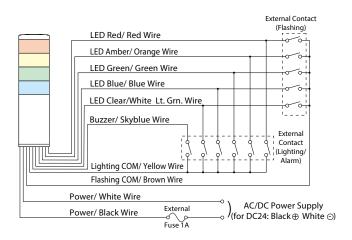
Dimensions (Unit: mm)







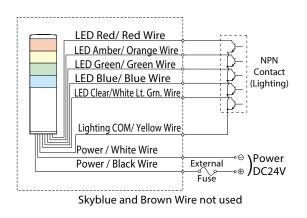




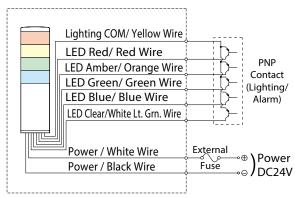
Signal Line v	oltage and ci	ırrent per	LED Module

1				LED	Alarm	
	Model	Rated Voltage	Signal Line Voltage	Signal Line Current	Signal Line Current	Inrush Current
	LGE-A	AC/DC 24V	AC/DC 24V			250mA
	LGE-A	AC 100	DC 24V	90mA	20mA	
	LGE-A	AC 220V	DC 24V			

DC 24V NPN Type

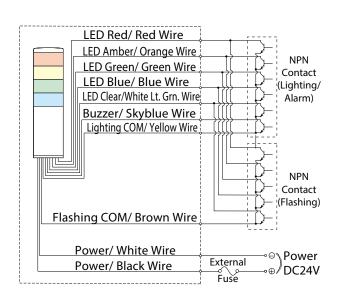


DC 24V PNP Type

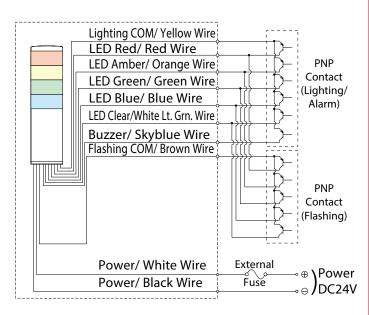


Skyblue and Brown Wire not used

DC 24V NPN FB Type



DC 24V PNP FB Type







90dB at 1m (FB Type)

P65 (FB Type: IP54)

NPN/PNP **Open-collector**

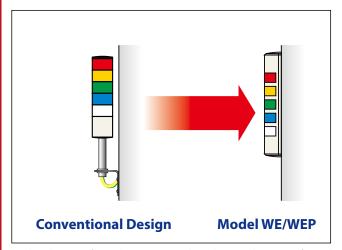


Ultra slim half-moon shaped Signal Tower offers seamless integration with most equipment.

FEATURES

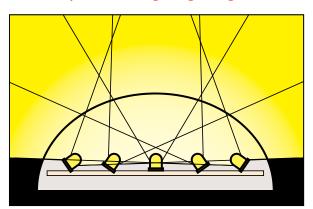
- Clear vertical-cut lens for enhanced illumination over a wide perspective.
- Has an optional built-in audible alarm (FB type) with an output of 90dB (at 1m).
- Installation can be vertical or horizontal.
- Two body color selections of chrome plated or ivory white.
- Lens made of superior impact and 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!

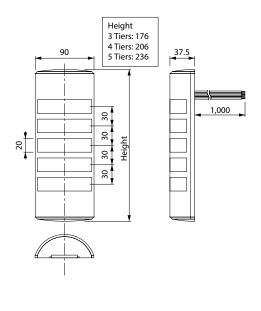


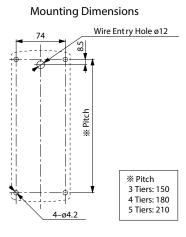
Patlite has perfected a 37.5mm-thin design that significantly enhances integration with the equipment as a built-in signal system.

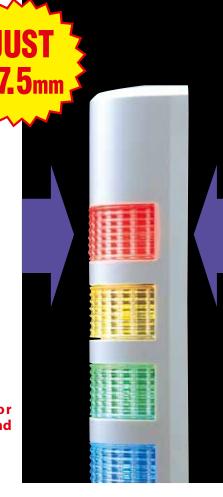
Exclusively New LED Lighting Design

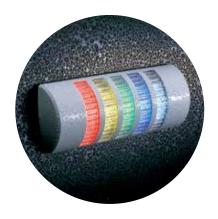


Patlite has created a revolutionary patented lighting design in which multiple LEDs project light across a broad peripheral area, ensuring equal intensity at the sides as well as the front. This design, with its side-projection technology, is a unique achievement in signal light design.



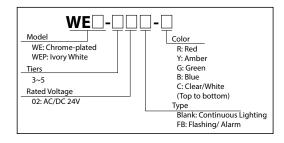






IP65 construction is safe for installation in damp locations and dusty factory environments.

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	AC/DC 24V	2.7W	300g
4 Tiers	WE(P)-402		2.0W	310g
4 11615	WE(P)-402FB		3.2W	350g
5 Tiers	WE(P)-502		2.7W	310g
3 riers	WE(P)-502FB		3.7W	350g

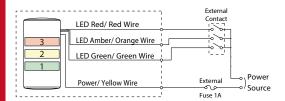
Alarm Sounds Lead Wire Color
Buzzer 1 Purple
Buzzer 2 Skyblue

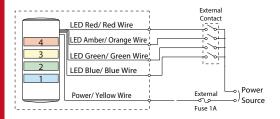
Signal Line voltage and current per LED Module

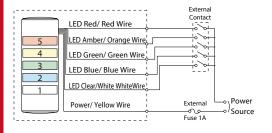
Ī			6	LE	D	Alarm	
	Model	Rated Voltage	Signal Line Voltage	Signal Line Current			
				R, Y	G, B, C	Current	Current
	WE/WEP	AC/DC 24V	AC/DC 24V	30mA	25mA	40mA	250mA

Wiring

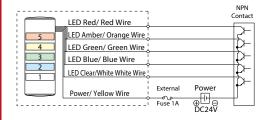
AC/DC 24V Lighting Type



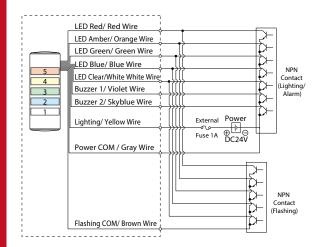




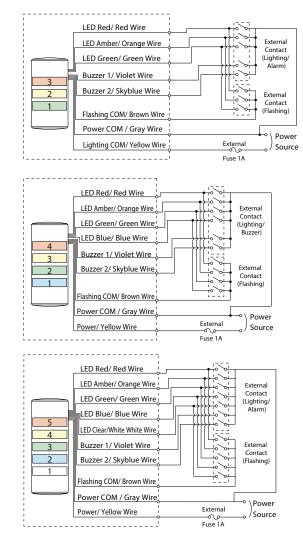
DC 24V NPN Type



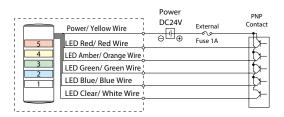
DC 24V NPN FB Type



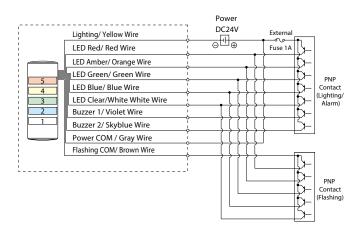
AC/DC 24V Lighting/Flashing Type



DC 24V PNP Type



DC 24V PNP FB Type





WME-A

Signal Tower











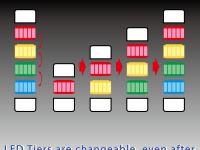




Open-collector

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

Interchangeable LED Modules



LED Tiers are changeable, even after installation.

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

FEATURES

- Built-in audible alarm (FB type)
- 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

5 "Super Bright" LED Colors to choose from!

Red

Amber

Green

Blue

Clear/White



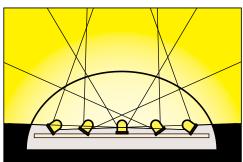






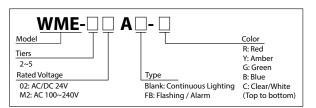


Exclusively New LED Lighting Design



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



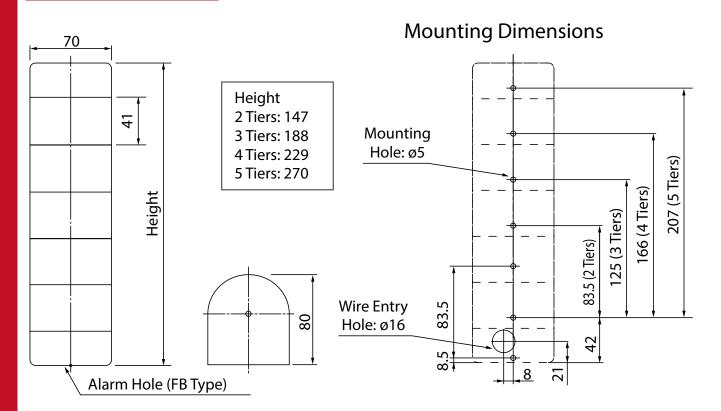
Specifications

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
3 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
J Heis	WME-5M2A	AC 100 - 240V	10.0W	700g

Signal Line voltage and current per LED Module

Γ	Model	_	6	LE	D	Alar	m	
İ		Rated Voltage	Signal Line Voltage	Signal Line Current		Signal Line	Inrush	
l				R, Y	G, B, C	Čurrent	Current	
W	WME-A	AC/DC 24V	AC/DC 24V	35mA	25m A 50m A	50mA	40mA	250mA
	VVIVIE-A	AC 100V - 240V	DC 24V		JUITA	40mA	250MA	

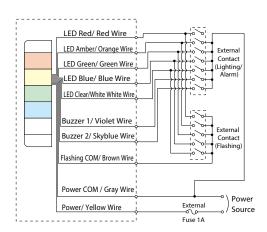
Dimensions (Unit: mm)



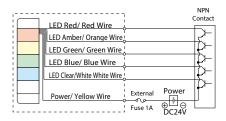
- The LED Colors are stackable, even after installation.
 However, the applicable Center Shaft and backplate needs to be purchased.
- Install with the alarm in the downward direction in order to preserve the IP54 rating.

Wiring

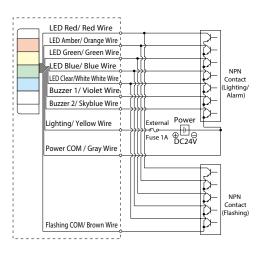
AC/DC 24V Lighting/Flashing Type



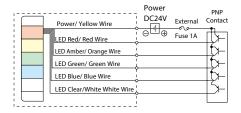
DC 24V NPN Type



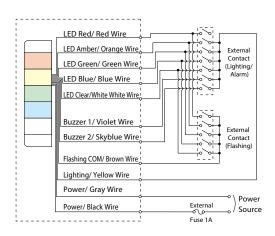
DC 24V NPN FB Type



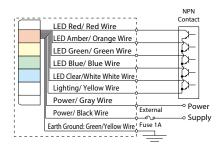
DC 24V PNP Type



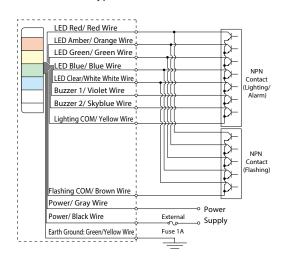
AC Power Lighting/Flashing Type



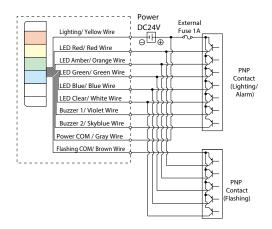
AC Power NPN Type



AC Power NPN FB Type



DC 24V PNP FB Type

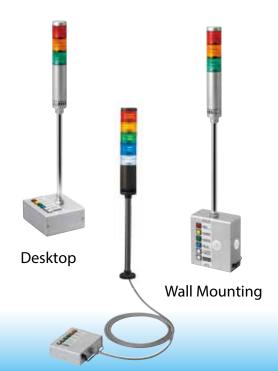


WSST

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

Specifications

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	1.11kg (Switch Box)







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

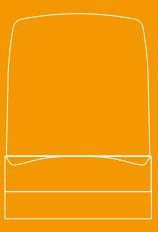
Package Description

312: Complete Kit including

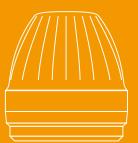
- 3 button Control Box
 - Control Box mounting screws - 3 tiered Signal Tower (Red, Amber, Green)
- AC 120V Power Adaptor
- 4 ft. cable for Signal Tower
- 3 " Pole (80mm)
- 12" Pole (300mm)
- Pole Mounting Brackets
- Instruction Manual

Specifications

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

Q

IP65

Φ57

NPN/PNP **Open-collector**

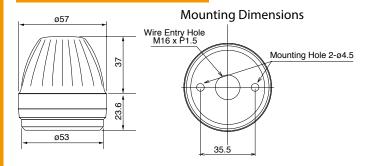


NE Series LED Dome Indicator Light; The dome-shaped globe provides increased visibility while the LEDs provide years of maintenance-free operation.

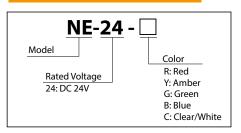
FEATURES

- 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)



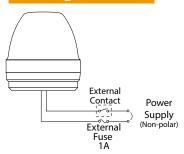
How to Order



Specifications

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

Wirina







LED Multi-signal Light











KHE features three flashing patterns for diverse applications.

FEATURES

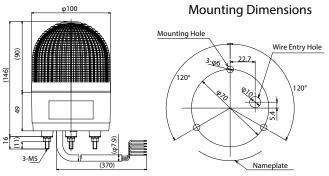
Gasket SZ-200A

- 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

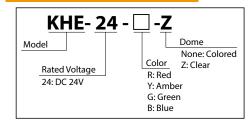
Dimensions (Unit: mm)



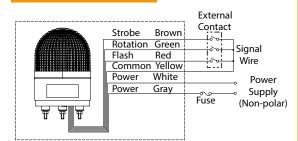
Specifications

١	Model	Color	Rated Voltage	Power Consumption		Mass		
١					Flash	Rotation	Strobe	ividSS
İ		RED AMBER DC 24V		0.2144				
ı	KHE-24		8.2W	55 ±10%	175 ±10%	75 ±10% fpm	450g	
	KHE-24	GREEN	DC 24V	10.1W	fpm	fpm	(double-flash)	4309
ı		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

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

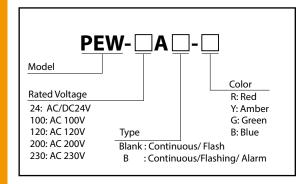
- Has maintenance-free LED's that consume nearly half the power incandescent bulb models (AC100V/200V) do.
- Newly-developed triple-reflection system for enhanced visibility and low power consumption.
- PEW-B type has a built-in adjustable audible alarm with a volume of up to 85dB (at 1m).
- Indoor installation 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.

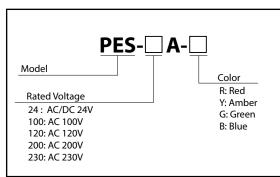
AVAILABLE BY SPECIAL ORDER

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



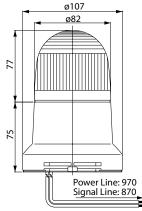


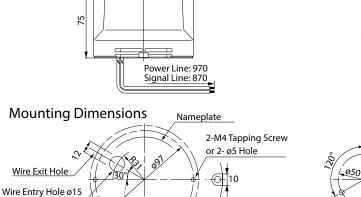


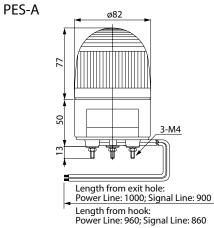


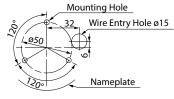
Dimensions (Unit: mm)



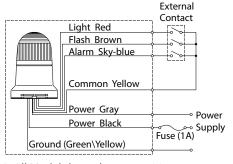


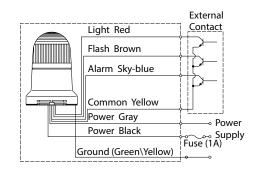






Wiring





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

Specifications

Model	Color	Rated	Power	Inrush	Mass	
Model	COIOI	Voltage	Consumption	Current	ividSS	
PEW-24A	R/Y		1.2W		320g	
FEW-24A	G/B	AC/DC 24\/	1.5W	254	320g	
PEW-24AB	R/Y	AC/DC 24V	2.2W	2.5A	340g	
FLW-24AD	G/B]	2.5W		340g	
PEW-100A	R/Y		2.8W		F20=	
PEW-100A	G/B	AC 100V	3.3W		520g	
PEW-100AB	R/Y	AC 100V	5.3W	1.0A	E40~	
PEW-100AB	G/B]	5.8W		540g	
PEW-120A	R/Y		3.0W		F20=	
PEW-120A	G/B	AC 120V	3.5W		520g	
PEW-120AB	R/Y		5.7W		E40a	
PEW-120AB	G/B]	6.2W		540g	
PEW-200A	R/Y		2.5W		F20=	
PEW-200A	G/B	AC 200V	3.2W		520g	
DEW 200 A D	R/Y	AC 200V	4.9W		F40=	
PEW-200AB	G/B	1	5.6W	0.54	540g	
DEW 220A	R/Y		3.1W	0.5A	F20=	
PEW-230A	G/B	AC 2201/	3.8W		520g	
DEW 220AB	R/Y	AC 230V	5.9W		F 40 =:	
PEW-230AB	G/B		6.4W		540g	

Model	Color	Rated Voltage	Power Consumption	Inrush Current	Mass	
PES-24A	R/Y	AC/DC 24V	1.2W	2.5A	240g	
FE3-24A	G/B	AC/DC 24V	1.5W	2.3A	2409	
PES-100A	R/Y	AC 100V	4.2W		430g	
I LS TOOK	G/B	AC 100V	4.7W	1.0A		
PES-120A	R/Y	AC 120V	4.4W			
PE3-120A	G/B	AC 120V	4.9W			
PES-200A	R/Y	AC 200V	4.0W			
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.

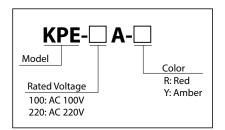
FEATURES

- 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.

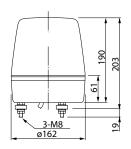
Specifications

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

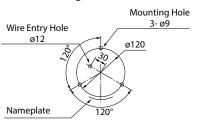
How to Order



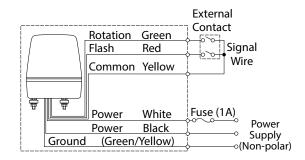
Dimensions (Unit: mm)



Mounting Dimensions



Wirina





PSE

LED Signal Light



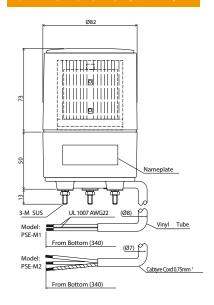


New LED flashing beacon! Can outlast a conventional Xenon lamp and is available in four LED Colors.

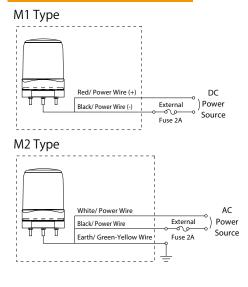
FEATURES

- Has maintenance-free LED's that consume nearly half the power incandescent bulb models do
- 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)

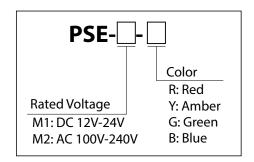


Wiring



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	IP23		
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.

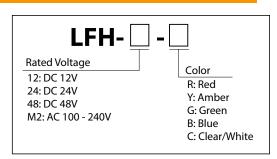
LFH Nameplate From Bottom (300) LFH-M2 From Bottom (300) LFH-M2 From Bottom (300)

Wiring LFH External Contact White/ Dimming Wire Red/ Power Wire (+) Power External Black/ Power Wire (-) ∘ [/] Source Fuse 2A LFH-M2 White/ Power Wire Power External Black/ Power Wire Source Fuse 2A

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	-3	0°C to +70	-20°C to +60°C	
Protection Rating	IP66			
Mounting Location		Indoor c	r Outdoor	Use
Flash Rate	110 ±10fpm (Triple-flash)			
Certifications	UL, CE ^{*1} , RoHS, FCC			
Mass		0.57kg		0.61kg

*1 LFH-48 not CE certified.



LFK-S



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	-2	-20°C to +60°C			
Protection Rating	IP55				
Mounting Location	Indoor or Outdoor Use				
Flash Rate	140 ±14fpm (Triple-flash)				
Certifications	CE ^{*1} , RoHS, ECE		CE		
Mass	0.5kg				

^{*1} LFK-48 not CE certified.

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





LED Signal Light



Φ162



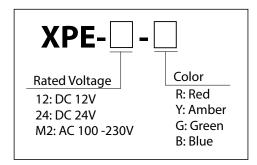
New LED flashing beacon! Available in four LED Colors.

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	o +70°C	-20°C to +60°C
Protection Rating		IP23	
Mounting Location	Indoor or Outdoor Use 110 ±10fpm (Triple-flash Pattern)		
Flash Rate			
Certifications			





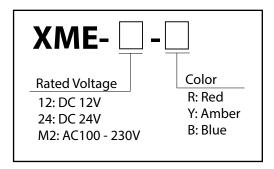
New Large Sized LED flashing beacon! Available in three LED Colors.

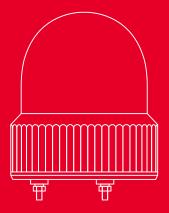
FEATURES

- 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).

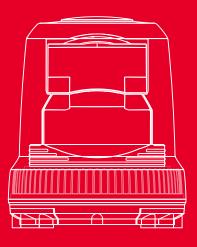
Specifications

Model	XME-12	XME-24	XME-M2
Rated Voltage	DC 12V	DC 24V	AC 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	o +70°C	-20°C to +60°C
Protection Rating		IP23	•
Mounting Location	Indoor or Outdoor Use		
Flash Rate	110 ±10fpm (Triple-flash Pattern)		
Certifications			





Revolving Warning Lights



RLE

Revolving Warning Light









IP55 with SZ-210

Φ82

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

FEATURES

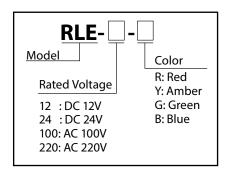
- · Indoors allows upright, inverted, and horizontal installation; outdoors allows upright installation only.
- Dome lens is made of superior impact and heat resistant polycarbonate resin.
- · Compact motor with high durability and energy-efficient characteristics.
- LED integrated reflection system 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

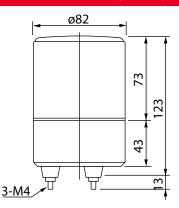
Model	Rated Voltage	Power Consumption	Flash Rate (fpm)	Mass	
O RLE-12	DC 12V	2.5W		400~	
RLE-24	DC 24V	3.0W	120	400g	
RLE-100	AC 100V	4.0W	120	600g	
RLE-220	AC 220V	4.000		ooog	

Available by Special Order

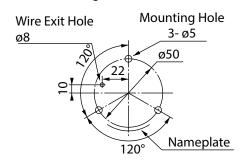
How to Order



Dimensions (Unit: mm)



Mounting Dimensions





RU/RUP/RS

Revolving Warning Light



55 with SZ-210

Φ82

Compact Revolving Warning Light perfectly designed for small devices.

FEATURES

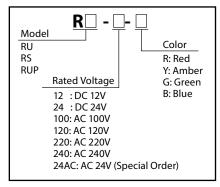
Optional Rubber Gasket SZ-210

- · 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.

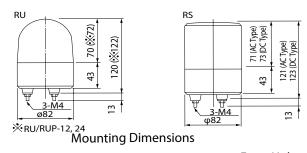
AVAILABLE BY SPECIAL ORDER

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

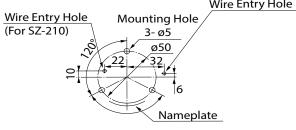
How to Order



Dimensions (Unit: mm)



Wire Entry Hole



Specifications

Model	Madel Rated Current		Flash Rate	Bulb		Mass	
Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	RU/RS	RUP
RU(P)/RS-12	DC 12V	0.5A	ĺ	12V 6W	18	0.41	0.8kg
RU(P)/RS-24	DC 24V	0.3A 0.1A		24V 6W	19	0.4kg	U.okg
RU(P)/RS-100	AC 100V						
RU(P)/RS-120	AC 120V	0.1A	120	12V 6W	18	0.6kg	1.0kg
RU(P)/RS-220	AC 220V	0.05A		120 600	10	U.okg	1.0kg
RU(P)/RS-240	AC 240V						
○ RU(P)/RS-24AC	AC 24V	0.3A		24V 6W	19	0.4kg	0.8kg

Available by Special Order





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

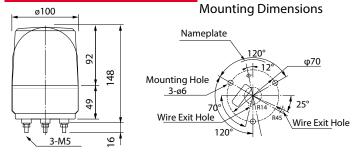
FEATURES

- 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.

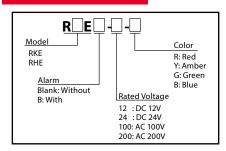
pecifications

Model	Rated Voltage	Current Consumption	Flash Rate	Mass
RKE/RKEB-12	DC 12V	0.25A		400-
RKE/RKEB-24	DC 24V	0.16A		400g
RKE/RKEB-100	AC 100V	0.04A	j	600g
RKE/RKEB-200	AC 200V	0.02A	120 frame	ooog
RHE/RHEB-12	DC 12V	0.25A	120 fpm	400g
RHE/RHEB-24	DC 24V	0.16A		4009
RHE/RHEB-100	AC 100V	0.04A		600g
RHE/RHEB-200	AC 200V	0.02A		ooog

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

c¶® ∪s (€



IP55 with SZ-200A

1 Alarm Sound (RHB & RKB)

90dB at 1m (RHB & RKB)



Φ100

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

FEATURES

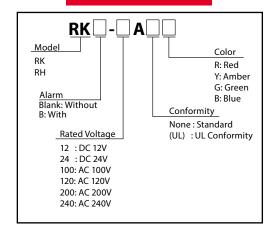
- Indoors allows upright, inverted, and sideways installation; Outdoors allows upright installation only.
- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- Dome is made from superior impact and heat resistant polycarbonate resin.
- · Main body is made 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)

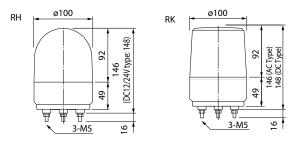
Gasket SZ-200A

· Body Color: Silver

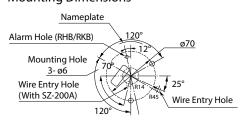
How to Order



Dimensions (Unit: mm)



Mounting Dimensions



Specifications

Model	Rated	Current	Flash Rate	Вι	ılb	Mass
Model	Voltage		Ratings	Repl. No.	iviass	
RH/RHB-12A	DC 12V	0.8A		12V 10W	9	400g
RH/RHB-24A (UL)	DC 24V	0.5A]	24V 10W	10	400g
RH/RHB-120A (UL)	AC 120V	0.1A]		12	
RH/RHB-200A	AC 200V	0.03A		12V 5W		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



IP23

Φ100





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

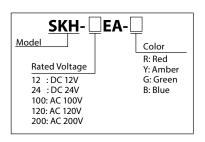
FEATURES

- · 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.

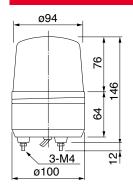
Specifications

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

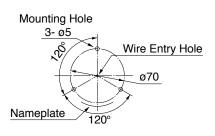
How to Order



Dimensions (Unit: mm)



Mounting Dimensions





WH-A/WK-A

Revolving Warning Light

((











90dB at 1m (WHB-A Only)

P54 (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.

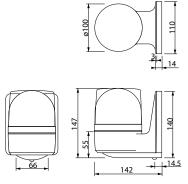
Wall-mount Revolving Warning Light featuring easy wiring with terminal block.

FFATURES

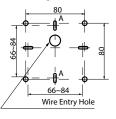
- Has the CE mark and conforms to the requirements (12V, 24V type only) for the EC directive.
- Upright, inverted, and sideways installation allowed for indoors as well as outdoors*.
- Dome is made from superior weather-resistant and light-translucent acrylic resin.
- Rotating parabolic reflector to 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)

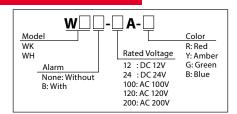


Mounting Dimensions





How to Order



Specifications

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	U.3A		240 1000	10	
WH-100A	AC 100V	0.07A				
WK-100A	AC 100V	0.07A				
WH-120A	AC 120V	0.08A		12V 5W	12	750g
WK-120A	AC 120V	U.06A		120 300	'2	730g
WH-200A	AC 200V	0.04A	170			
WK-200A	AC 200V	0.04A				
WKB-12A	DC 12V	0.85A	170	12V 10W	9	
WHB-24A	DC 24V	0.5A		24V 10W	10	550g
WKB-24A	DC 24V	U.3A		240 1000	10	
WHB-100A	AC 100V					
WKB-100A	AC 100V	0.07A				
WHB-120A	AC 120V	0.07A		12/ 5/4/	12	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







1 Alarm Sound (SKHB)

90dB at 1m (SKHB)

IP54 (SKH-SA, others IP23)

Φ118





Wire Entry Hole

Wire Entry Hole

FEATURES

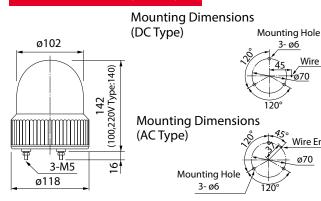
- Rotating parabolic reflector to enhance visibility from a distance.
- · Vibration-resistant automobile bulb for extended bulb life.
- Includes an internal alarm of 90dB (at 1m) that is synchronized with the light operation.
- Upright, inverted, and sideways installation allowed for indoors* as well 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.

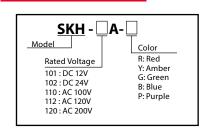
*SKH-SA installation allows upright and inverted installation only for indoor use.

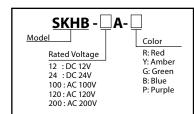
Specifications

	Model		Rated	Current	Flash Rate	Bulb		Mass
SKH	I-A Series	SKHB-A Series	Voltage Consumption		(fpm)	Ratings	Repl. No.	Mass
Sk	H-101A	SKHB-12A	DC 12V	0.8A		12V 10W	9	400g
Sk	H-102A	SKHB-24A	DC 24V	0.5A		24V 10W	10	400g
Sk	H-110A	SKHB-100A	AC 100V	0.065A				
Sk	H-112A	SKHB-120A	AC 120V	0.07A	170	12V 5W	12	600g
Sk	H-120A	SKHB-200A	AC 200V	0.03A		İ		
Ships/	SKH-102SA	-	DC24V	0.5A		24V 10W	10	400kg
Boat	SKH-110SA	-	AC 100V	0.1A		12V 5W	12	600g

Dimensions (Unit: mm)









SKHE/SKHEB

Super-bright LED Revolving Warning Light

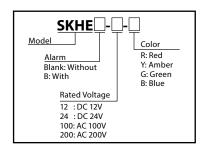


Compact LED revolving warning light featuring one super-bright LED chip and an enhanced high dispersion reflection system.

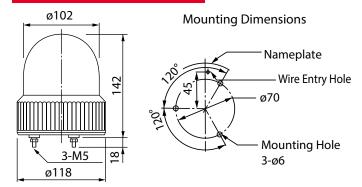
FEATURES

- 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		400-
SKHE/SKHEB-24	DC 24V	0.16A	120	400g
SKHE/SKHEB-100	AC 100V	0.04A	120	600a
SKHE/SKHEB-200	AC 200V	0.02A		600g

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

(E_(12/24/48V Only)

Bulb

P23

Φ138









FEATURES

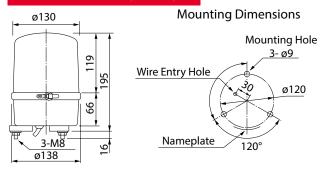
- Main body is made of a melamine baked finish with a corrosion-proof stainless steel (SUS 304) lens mounting fixture.
- Has the CE mark and conforms to the requirements (for 12V, 24V, 48V DC types only) for the EC directive.
- · Indoors allows upright, inverted, and sideways installation; outdoors allows 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.

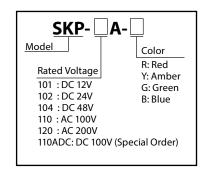
Specifications

Model	Rated	Current	Flash Rate	Bu	lb	Mass
Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	IVIASS
SKP-101A	DC 12V	2.6A		12V 35W	1	0.01.
SKP-102A	DC 24V	1.2A		24V 35W	2	0.8kg
SKP-104A	DC 48V	0.8A	140	48V 35W	5	
◯ SKP-110ADC	DC 100V	0.35A		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

Available by Special 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.

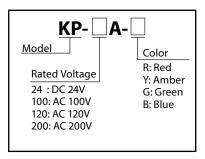
FEATURES

- 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.

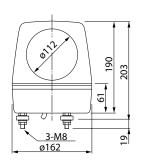
Specifications

Model	Rated	Current	Flash Rate	Bu	Mass	
Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	iviass
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	0.4A	1200 4000	O	1.2kg
KP-200A	200V AC	0.13A	120	220V 30W	37	

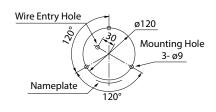
How to Order



Dimensions (Unit: mm)



Mounting Dimensions





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

FEATURES

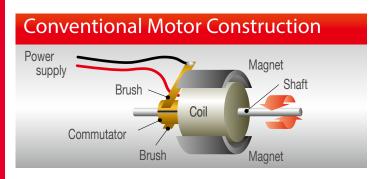
- Has the CE mark and conforms to the requirements (for 12V, 24V, 48V type) for the EC directive.
- · Colors available are Red, Amber, Green, and Blue.
- · RLR complies with the RoHS Directive.

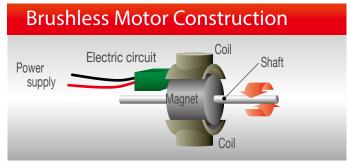
LED + Brushless Motor + Bearing Mechanism



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.







Vibration Resistance*



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-

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

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)



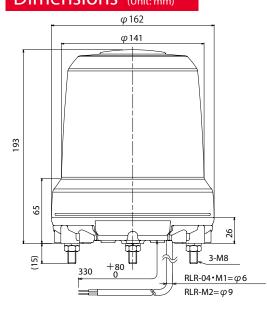
Emergency Vehicle

11G (107.8m/s²)

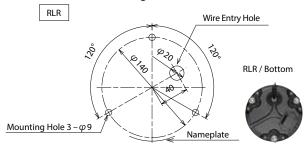


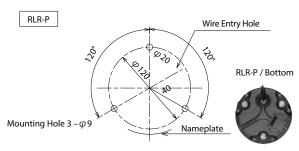
Dump Trucks

Dimensions (Unit: mm)



Mounting Dimensions





Specifications

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)	1.0kg
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/s² (4.5G)	-10 C - +50 C	-B (Blue)	1.06kg

SKHB-1006D Revolving Warning Light Bullb





1 Alarm Sound

Φ162

Portable



Portable Revolving Warning Light with dry cell batteries.

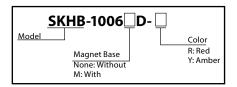
FEATURES

- 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.

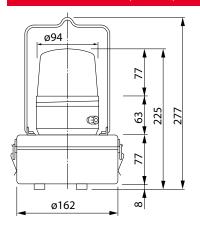
Specifications

Model	Rated	Power	Flash Rate	Βι	ılb	Mass
Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	
SKHB-1006D	DC6V	214/	150	6V 3W	0	2.0kg
SKHB-1006MD	(SUM-1x5)	3W	150	6V 3VV	ď	2.1kg

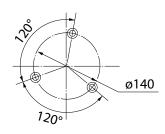
How to Order



Dimensions (Unit: mm)



Mounting Dimensions







βulbIP23Φ162

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

FEATURES

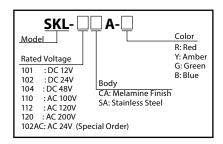
- · Main body for the SKL-CA has a scratch-free melamine baked finish, and the SKL-SA is of corrosion-proof stainless steel.
- Has the CE mark and conforms to the requirements (for 12V, 24V, 48V DC type only) for the EC directive.
- Indoors allows upright, inverted, and sideways installation; outdoors 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

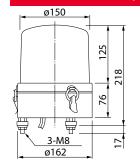
Model	Rated Current		Flash Rate	Βι	Mass		
Model	Voltage	Voltage Consumption		Ratings	Repl. No.	Mass	
SKL-101CA/101SA	12V DC	2.6A		12V 35W	1		
SKL-102CA/102SA	24V DC	1.2A	140	24V 35W	2	1.3kg	
SKL-102ACSA	24V AC	1.2A					
SKL-104CA	48V DC	0.8A	140	48V 35W	5	1.4kg	
SKL-110CA/110SA	100V AC	0.3A		120V 40W	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

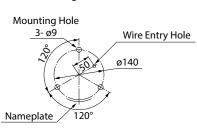
How to Order



Dimensions (Unit: mm)



Mounting Dimensions



HP

Revolving Warning Light

Halogen

Φ182



Large Revolving Warning Light with a solid design.

FEATURES

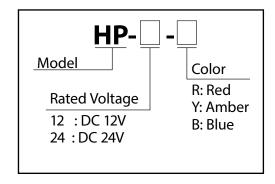
- Dome is made from superior weather-resistant and light-translucent acrylic resin.
- Main body is made of impact and heat resistant ABS resin.
- Available Voltages are DC 12V and DC 24V.
- Available Colors are Red, Amber, and Blue.
- Utilizes a Halogen Bulb (Sold Separately).

Specifications

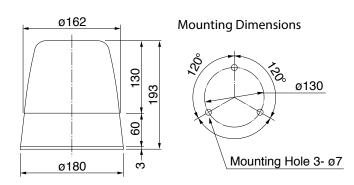
Madal	Rated	Halogen Bulb	Flash Rate	Mass	
Model Voltage		Bulb sold seperately	(fpm)	iviass	
◎ HP-12	12V/24 DC	0.5A	160	1.0kg	
○ HP-24	12V/24 DC	U.JA	100	1.0kg	

Available by Special Order

How to Order



Dimensions (Unit: mm)





KG

Revolving Warning Light

PulbIP23Φ186Dual-face Reflector

Large lightweight Revolving Warning Light with dual-face reflector.

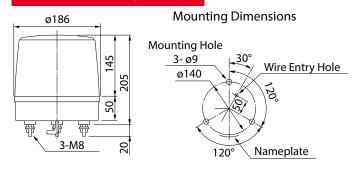
FEATURES

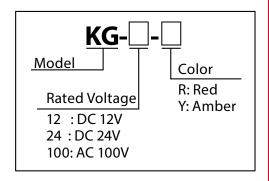
- · Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Main Body is made of a black resin for resistance against harsh weather and UV rays.
- · Compact motor with high durability and energy-efficient characteristics.
- The red dome is made of AS 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			Bu	Mass		
Model	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

(€

Bulb

(A)

IP23

Φ187

Dual-face Reflector



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

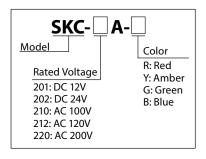
FEATURES

- 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.
- $\bullet \ \ \mathsf{Dome} \ \mathsf{lens} \ \mathsf{is} \ \mathsf{made} \ \mathsf{of} \ \mathsf{superior} \ \mathsf{weather} \mathsf{-resistant} \ \mathsf{and} \ \mathsf{light-translucent} \ \mathsf{acrylic} \ \mathsf{resin}.$
- 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.

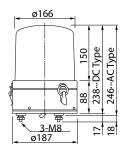
Specifications

Model	Rated	Current	Flash Rate	Bu	Mass		
Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	ividSS	
SKC-201A	12V DC	2.6A		12V 35W	1	1 ()	
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		

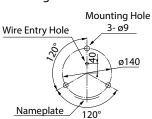
How to Order



Dimensions (Unit: mm)



Mounting Dimensions





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

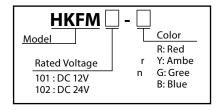
FEATURES

- 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.

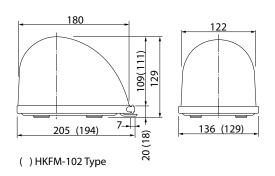
Specifications

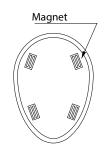
Model	Rated Voltage	Current Consumption	Flash Rate (fpm)	Bulb	Mass	
HKFM-101	DC 12V	2.9A	230	12V 35W	800a	
HKFM-102	DC 24V	1.9A	230	24V 55W	8009	

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.

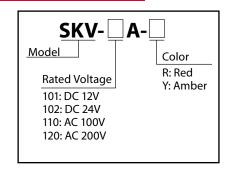
FEATURES

- · 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.

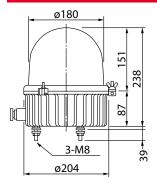
Specifications

Model		Rated	Current	Flash Rate	Bu	Mass	
		Voltage	Consumption	(fpm)	Ratings	Repl. No.	iviass
S	KV-101A	12V DC	2.6A		12V 35W	1	2 (1.5
S	KV-102A	24V DC	1.2A 140		24V 35W	2	2.6kg
S	KV-110A	100V AC	0.3A		120V 40W	36	2 01/0
S	KV-120A	200V AC	0.13A	120	220V 30W	37	2.8kg

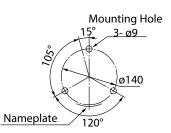
How to Order



Dimensions (Unit: mm)



Mounting Dimensions













Cube Tower

1 Alarm Sound

Bulb

80_{db at 1m}

IP54 (Except KUS-B)

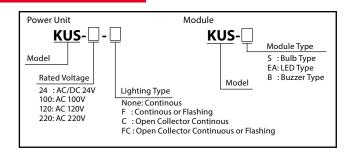
70

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.
- Each light has a built-in dip switch to control the light on or or
 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



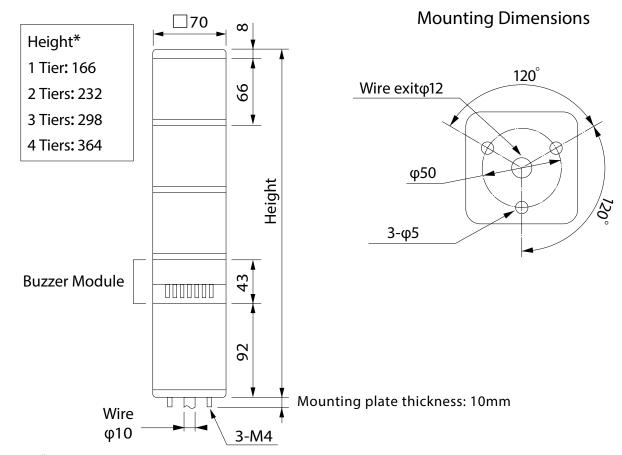
Specifications

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 C	AC/DC 24V	
Open-Collector Continuous	KUS -100 C	AC 100V	
Lighting	KUS -120 C	AC 120V	
	KUS -220 C	AC 220V	
Open-Collector	KUS -24 FC	AC/DC 24V	
Continuous	KUS -100 FC	AC 100V	
Lighting or Flashing	KUS -120 FC	AC 120V	
riasilling	KUS -220 FC	AC 220V	

Model	Rated	Power Consumption	Bulb	
Model	Voltage	rower 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)

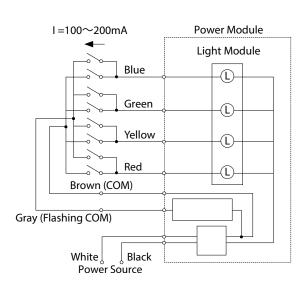
Dimensions (Unit: mm)



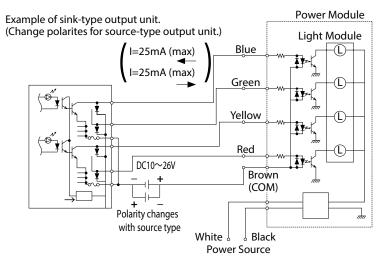
^{*} Buzzer module height not included

Wiring

Contact Input Type (KUS,KUS-F)



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











KJS / KJSB

Cube Tower





Alarm Sound

80_{db} at 1m (KJSB)

IP23

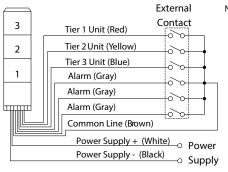
NPN/PNP **Open-collector**

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.

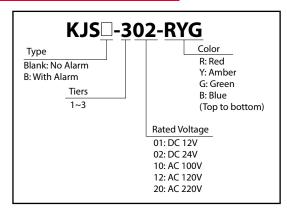
Wiring



NPN Open-collector Transistor

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

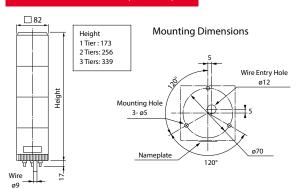
How to Order



Specifications

Stack	Model		Rated	Power	Flash Rate	Bulb	
Number			Voltage Consumpt		(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				
	טכנאו	-112	AC 120V	8W		12V 5W	12
		-120	AC 200V				
	KJS KJSB	-201	DC 12V	11W		12V 5W	12
		-202	DC 24V	24W		24V 5W	10
2 Tiers		-210	AC 100V	16W	160		
		-212	AC 120V			12V 5W	12
		-220	AC 200V				
		-301	DC 12V	16W		12V 10W	9
		-302	DC 24V	35W		24V 10W	10
3 Tiers	KJS KJSB	-310	AC 100V	23W			
	1.000	-312	AC 120V			12V 5W	12
		-320	AC 200V				

Dimensions (Unit: mm)



KJ/KJB Cube Tower





1 Alarm Sound

85dB at 1m (KJB)

IP23

□116





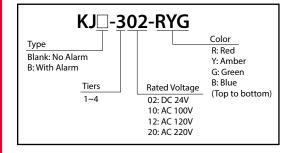


Lightweight Cube Tower featuring a built-in buzzer suitable for various indoor applications.

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.

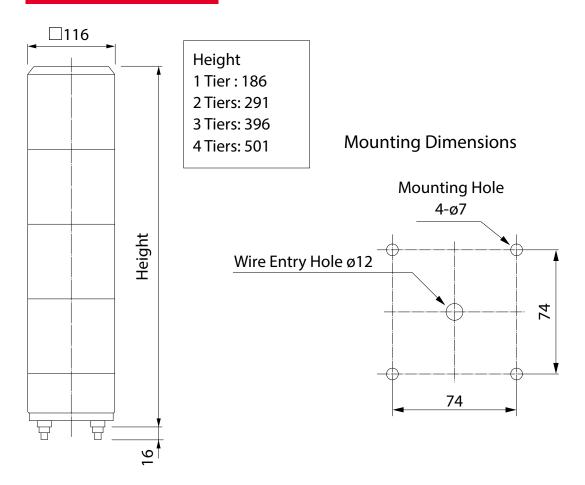
How to Order



Specifications

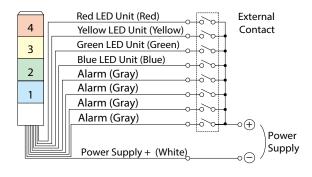
Stack			Rated	Power	Flash Rate	Bulb		
Number			21	Voltage Consumption ((fpm)	Ratings	Repl. No.
			-102	DC 24V	13.5W		24V 10W	10
1 Tier	KJ	KJB	-110	AC 100V	6W			
i ner	\ \\	KJB	-112	AC 120V	7W		12V 5W	12
			-120	AC 200V	5.5W			
			-202	DC 24V	25.54W		24V 5W	10
2 Tiers	 , ,	KJ KJB	-210	AC 100V	11W	130	12V 5W	
2 Hers	K)		-212	AC 120V	13W			12
			-220	AC 200V	9.9W			
		(J KJB	-302	DC 24V	37.5W		24V 10W	10
3 Tiers	 		-310	AC 100V	16W			
3 Hers	\ _{\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\}		KJB	-312	AC 120V	18W		12V 5W
			-320	AC 200V	14.3W			
			-402	DC 24V	49.5W		24V 10W	10
4 Tiers	KJ	KJB	-410	AC 100V	21W			
4 11615	\ _{\\\\\}	פנא	-412	AC 120V	26W		12V 5W	12
			-420	AC 200V	18.7W			

Dimensions (Unit: mm)

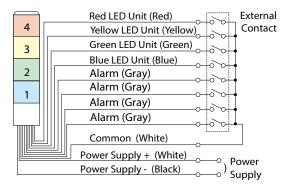


Wiring

KJ/KJB (24V DC)



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

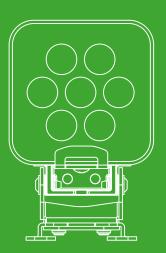


^{*}KJ-110/112/120 are voltage-contact type, therefore have no alarm signal wires.

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

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

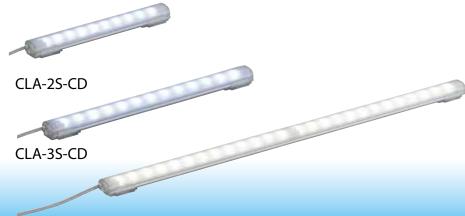
LED Lights





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).

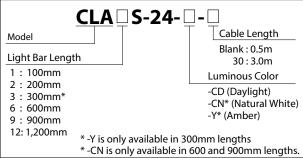
Luminous Color

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

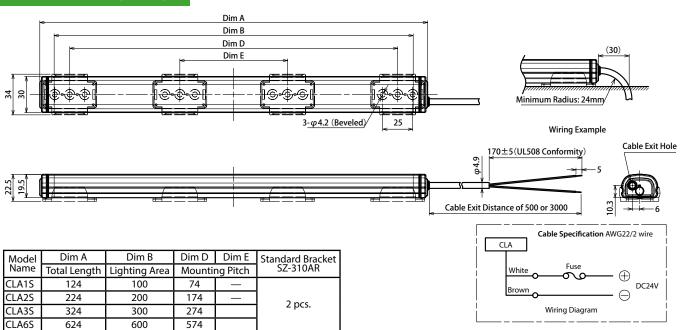


CLA-CN (Natural White: 4800K)

CLA-CD (Daylight: 6800K)

CLA-Y (Amber)

Dimensions (Unit: mm)



Options

CLA9S

CLA12S



924

1,224

900

1,200

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

Model	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	DC 241		1005 1005	240mA	400	Polycarbonate	IP66/67/69K	180g
CLA3S -24 -Y	Amber	DC 24V (Polarized)	19.6 m/s ²	-40°C - +60°C (RH 90% or less)		220			
CLA6S -24 -CD	Daylight	(. 0.0200)		(20 / 0 01 1033)	480mA	650			340g
CLA6S -24 -CN	Natural White				400111A	030			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

Specif	ications/Material	rial Water and Oil Resistance/Aluminum Alloy					Water and Chemical Resistance/ SUS316 Stainless Steel			
Lens Mate				Tempere	d Glass			Specially-treated Lens◊		
Model		2S-AG	3S-AG	6S-AG	3C-AG	3CL-AG	6C-AG	6CL-AG	3C-SG	3C-SA
Lens Size		200mm	200mm 300mm 600mm 300mm 600mm		n	300	mm			
LED	Daylight: 6,500K: CD	•	•	•	•	•	•		•	_
Color	Natural White: 5,000K: CN	Δ	•	Δ	•	•	•	-	_	•
Center III	umination (@1m)	820lx	1,200lx	2,100lx	1,200lx	1	2,1001	ĸ	1,2	00lx
Connection	on Type	Side-ex	iting Cable,	L=0.5m	M12 Quick Disconnect	M12 Daisy Link	M12 Quick Disconnect	M12 Daisy Link	M12 Quick	Disconnect
Power Co	nsumption	8.4W	12.5W	25W	12.5W	I	25W		12.5W	
Rated Voltage DC24V (Poloarized)										
Operating	Temperature Range	-40°C - +60°C (RH 90% or less)								
Protection	n Rating		IP 66G/67G (IEC 60529)/IP69K (DIN 40050 Part 9)							

^{△:} Inquire before Ordering

How to Order

Model Code	Illumination Area Size 2: 200mm 3: 300mm 6: 600mm	Model CL	LK24	LED Color CD: Daylight, CN: Natural White
Wiring Method S: Side-exiting Cabl	e C: M12 Cable CL: M12 Daisy Link			Body Material AG: Aluminum & Glass SG: Stainless Steel & Glass SA: Stainless Steel & Special Lens

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

Oil Exam

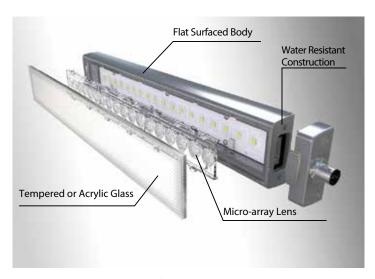
It has passed the oil resistant test from the following common cutting oils.

	Oil Type
Hangsterfer's	Hangsterfer's S-500
Yushiro Chemical Industry Co., Ltd.	Yushiroken Synthetic ♯663
Castrol	Syntilo 9954
BlaserSwisslube Inc.	Blasocut BC35LFSW

Confirmation in result of swelling, contraction, dissolution, exfoliation, separation, cracks, and discoloration by the accelerated impregnation examination with the oil types indicated in the table on the left for diluted oil at 55° C for 240 hours (ten days) was made.

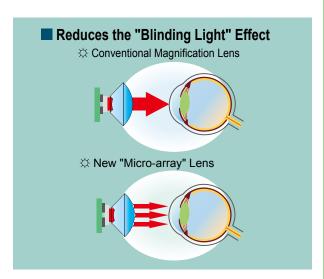
Due to the additive agents in oil, the application of oils other than the ones mentioned may influence physical properties, therefore, please inquire in advance.

* The mentioned company names, product names, trademarks, etc. are the registered trademarks or trademarks in Japan for each company, and/or other countries.



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

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)

Options

Refer to Page 192 for "Optional Parts"

Product Lineup

	it Enricap			
Specifications Length	Side-exiting Cable Series (S)	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	(-CN)	(-CD)	(-CD) *Up to 4 Units	3C (-(CD)
600 mm	65 (-CD)	6C (-CD)	6CL (-CD) (-CN) *Only 1 Unit	



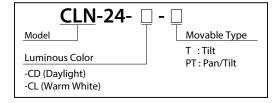


Water and Oil resistant high-power LED Work Light with an illuminance of 820 lx. Industry's thinnest design at 22.2mm.

*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).

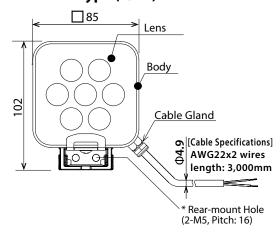
How to Order



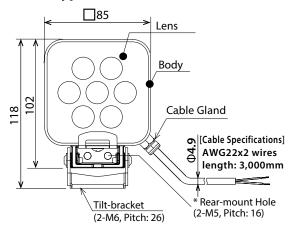
Specifications

Model	CLN-2	.4- □ -T	CLN-24- ☐ -PT		
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%)	360g 430g				

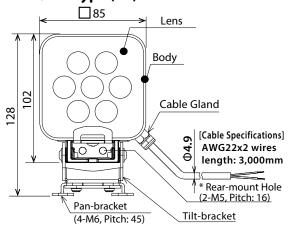
Rear-mount Type (T/PT)



Tilt Type (T)



• Pan/Tilt Type (PT)



Oil Exam

It has passed the oil resistant test from the following common cutting oils.

Company	Oil Type
Hangsterfer's	Hangsterfer's S-500
Yushiro Chemical Industry Co., Ltd.	Yushiroken Synthetic #663
Castrol	Syntilo 9954
BlaserSwisslube Inc.	Blasocut BC35LFSW

Confirmation in result of swelling, contraction, dissolution, exfoliation, separation, cracks, and discoloration by the accelerated impregnation examination with the above-mentioned oil type for diluted oil at 55°C for 240 hours (ten days) was made.

Due to the additive agents in oil, the application of oils other than the ones mentioned may influence physical properties, therefore, please inquire in advance.

*The mentioned company names, product names, trademarks, etc. are the registered trademarks or trademarks in Japan for each company, and/or other countries.

Features

Tilt Type (T Type)



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.





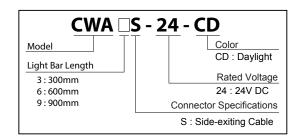
Affordable replacement for flourescent lighting.

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	1	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

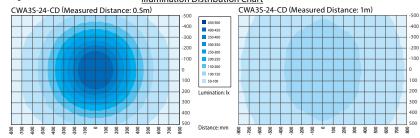


High-definition LED chip

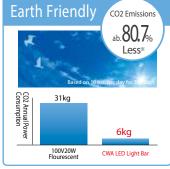
The highly reliable LED chip, which is the core of LED lighting, has nearly 10 times (about 40,000 hours) the lifespan (based on LED brightness of 70%) in comparison the common fluorescent light, it also does not contain any mercury.

A uniform light that subdues glare

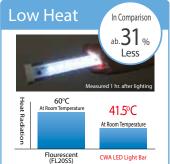
In comparison to an LED luminous source, we take advantage of the straight beam optical characteristic of the LED without dropping brightness or overdoing it, but reproducing a natural light. **Illumination Distribution Chart**



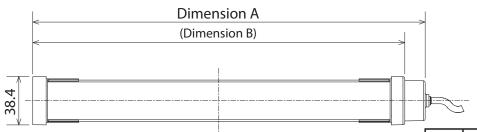




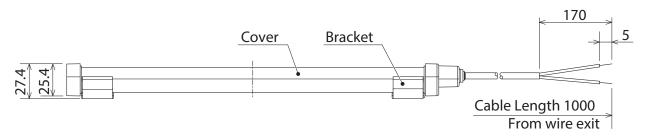




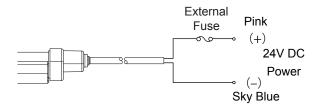
Dimensions (Unit: mm)

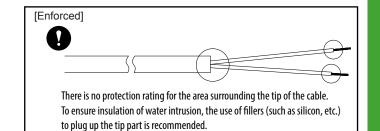


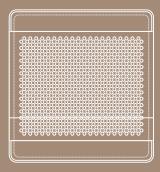
Model	Dimension A	Dimension B		
Name	Total Length	Lighting Area		
CLA3S	315.5	300		
CLA6S	621.0	600		
CLA9S	916.5	900		



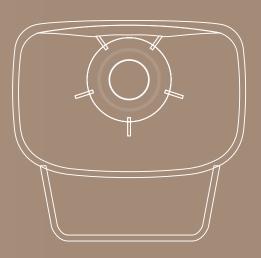
Wiring







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**



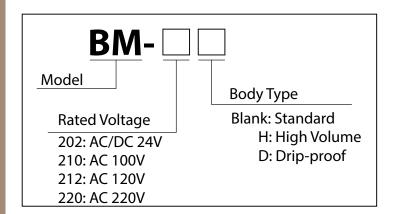


Compact Signal Horn designed to integrate with control panel, switchboard and other production equipment applications.

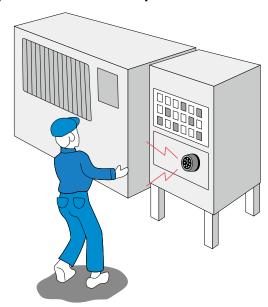
FEATURES

- 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)

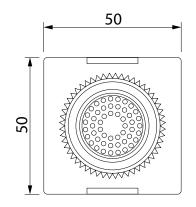
How to Order

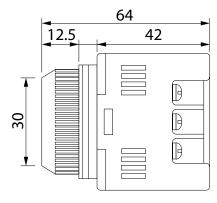


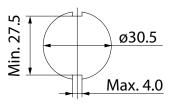
Application Example



Dimensions (Unit: mm)



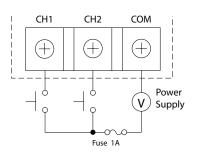




Maximum Panel Thickness: 7

Wiring

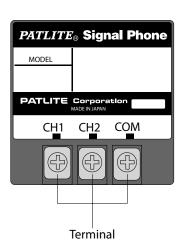
Terminal Bus Input



• 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	8308		IP30	100g
	BM -202H	AC/DC 24V	AC/DC 22V-26V	0.4W	85dB	-10°C - +60°C (RH 85% or less)		
High Volume	BM -210H	AC 100V	AC 90V-110V	2.5W				
High volume	BM -212H	AC 120V	AC 108V-132V	2.3 00	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	очив			



Audible Alarm







90_{dB 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.

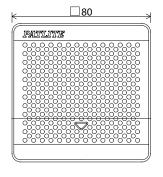
FEATURES

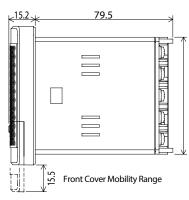
- Maximum output level of 90dB (at 1m) is suitable for use in a noisy factory.
- 32 pre-recorded sounds in one unit to be used for various applications.
- Sound output level and sound group can be selected by rotary switches stored behind the front panel for easier operation, even after installation.
- 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. E24210).

AVAILABLE BY SPECIAL ORDER

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

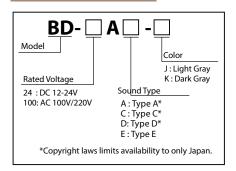
Dimensions (Unit: mm)



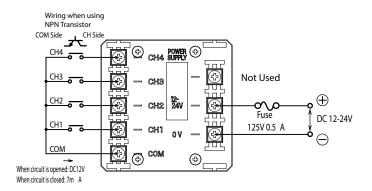


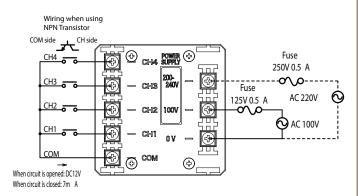


How to Order









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

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	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	ondensation)	
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 sound)		
Input Method	Bit Input		
Input Signal Duration	Continuous		
Boot-up Time	Input Voltage: 1 sec. or less Channel Signal Input: 170msec or less		
Channels	4 Channels		
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.



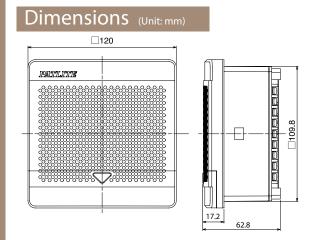
The BK Series can play melodies, chimes and alarms with variable audible control and a compact but loud speaker.

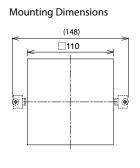
FEATURES

- 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).

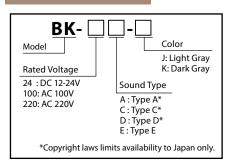
AVAILABLE BY SPECIAL ORDER

• PNP open collector transistor type.

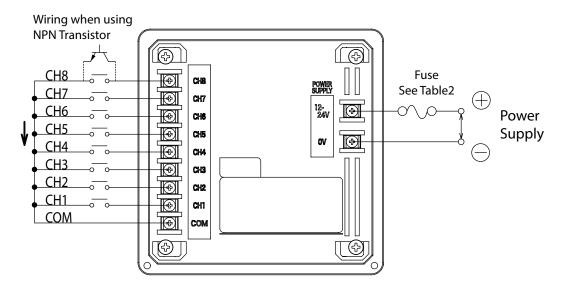




How to Order







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 (Worldw				
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	8	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 Input: 170msec or less			
Channels	Bit: 4 Channels; Binary: 32 Channels			
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			
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.

#EHS





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

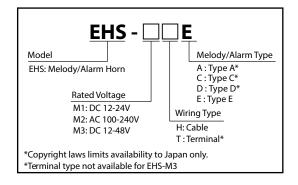
- EHS comes with 32 preloaded melody and alarm sounds with adjustable volume up to 110dB (at 1m).
- Ideal for plant-wide notification, public address and process control.
- · Robust, indoor and outdoor use with vibration resistance up to 4.5G.
- · Protection Rating of IP65.
- UL464, CSA-C22.2 NO.205-M1983,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

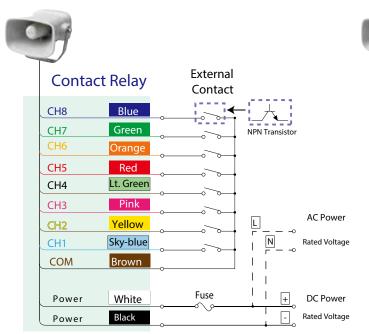
Model	Rated Voltage	Voltage Range	Power Consumption	Sound Pressure	Operating Temperature Range	No. of Playback Messages	Protection Rating	Wiring Type	Mass		
EHS- M1H	DC 12 - 24V	DC 10.8V to 35V	5.0W (DC24V NPN, Non-voltage Contact)					Cable	1.25kg		
EHS- M1T	DC 12 - 24V	DC 10.8V to 33V	5.9W (DC24V PNP, Voltage Contact)				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 30V 10 204V	0.500 (AC2400 Ni N, Non-voitage Contact)					Terminal	1.23kg		

Notes:

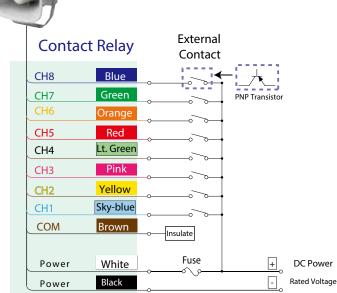
- The sound pressure level is based on measurements under controlled conditions (voice-synthesized 1 kHz sine wave played back from a distance of 1 meter), therefore the surrounding environmental conditions and message content will result in different values for the sound pressure level.
- Even when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

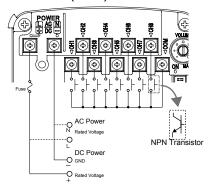
Non-voltage (NPN) Wiring



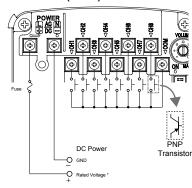
PNP Wiring



Terminal (NPN)



Terminal (PNP)



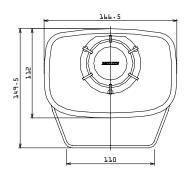
Transistor Capacity (NPN & PNP)				
Current Capacity	$I_{C} \geq 15mA$			
Current Leakage	$I_L \leq 0.1 \text{mA}$			
Withstand Voltage	V _C ≥ 35V			
ON Voltage(V _{sat})	Less than 1V			

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

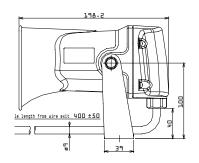
Maximum Inrush	Current
EHm1	12.5A
EHM2	23.0A
EHm3	45.0A

Dimensions (Unit: mm)

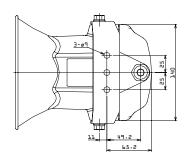
Front View

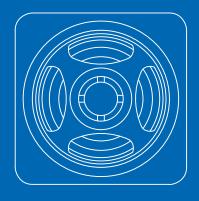


Side View

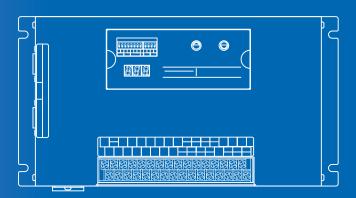


Underside View





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

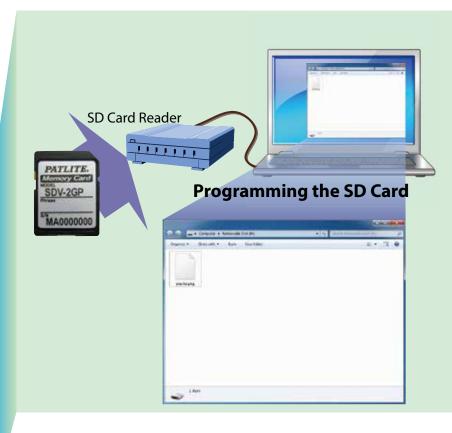
Save the MP3 messages on the SD Card

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 Editor 2 With PATLITE's downloadable Playlist Editor 2 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 installed 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 playlist can be changed into a playlist package using the PATLITE 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

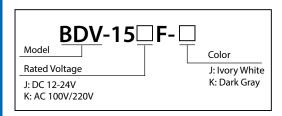


Excellent sound quality with MP3 playback! This panel-mounted MP3 voice annunciator uses SD cards*, allowing messages to be changed easily. (*Recommended: SDV-2GP)

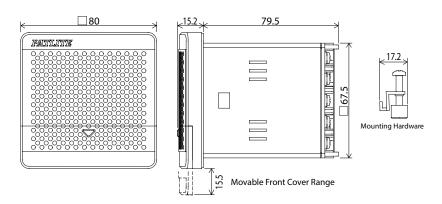
FEATURES

- · 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)

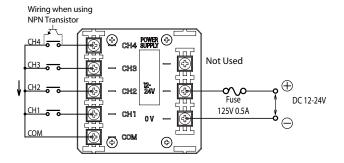
How to Order

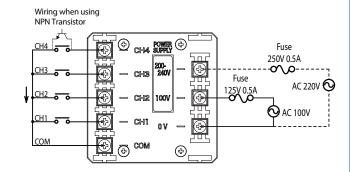


Dimensions (Unit: mm)



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/ 1 to 3
E Priority Message playb
Playback Mode will st

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.

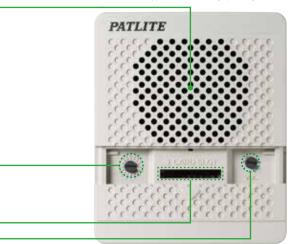
Binary Input/ H Hold Message Playback Mode Plays back up to 15 messages using Channels 1 to 4. As long as the input is held on, the message is played back, once the input is removed, the message playback stops.

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.

___ Mei

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



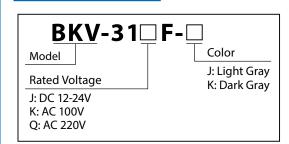


Excellent sound quality with MP3 playback! This panel-mounted MP3 voice annunciator uses SD cards,* allowing messages to be changed easily. (*Recommended: SDV-2GP)

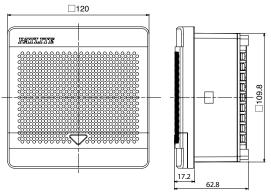
FEATURES:

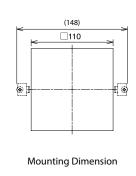
- Only Flush-mounting style available.
- Able to produce a loud sound of up to 87 dB (at 1m) despite its compact size
- A volume control on the front panel provides an easy way to adjust the sound volume.
- The use of an SD card allows message changes without uninstalling the device.
- Environmentally 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 (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)





Playback Modes

Mode Selector Switch

Several playback modes for a combination of applications.

Α	Bit Input Mode	Plays back up to 5 messages using Channels 1 to 5.
---	----------------	--

Binary Input 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/ D 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

Plays back 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.

Binary Input/ Priority Message 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.

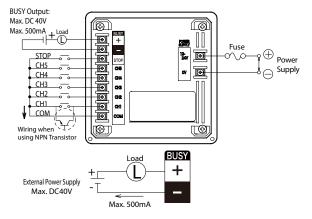
Bit Input/ G Hold Message Playback Mode Plays back up to 5 messages using Channels 1 to 5. As long as the input is held on, the message is played back, once the input is removed, the message playback stops.

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

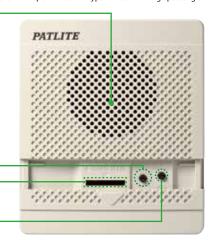
Plays back Message No. 1

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

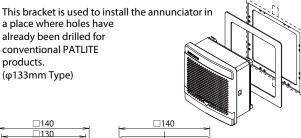
The volume is easily accessable from the front for adjustment.

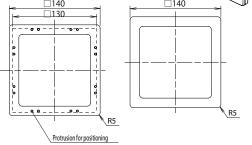
_

Memory Card Slot

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

Optional Bracket (BK-001)





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	95dB	MPEG- Audio Layer (MP3)	-10 - +50°C		Bit: 5	IP54	350g
BKV-31KF	AC 100V	AC 100V ±10%	10W	(at 1m)	Standard Bit Rate: 64kb/s	(PH loss than 85%)	63 sec.		(Panel Mount)	E20a
BKV-15KF	AC 220V	AC 220V ±10%	1000	(41 1111)	Fs=44.1kHz	(11111633 (11011 0570)		Diriary. 31	(i ariei Mourit)	J 330g

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

IP54(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

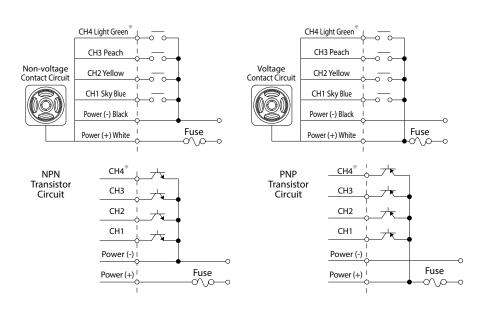
(OS: Windows® 2000/XP/Vista/Windows 7/Windows 8)

- > 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	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						Ü		4 (Bit Input) 15 (Binary Input)			Off white (-W) Dark Gray (-D)	Voice														
BSV-24NM-S	NPN Transistor								IP54		Silver (-S)	Voice														
BSV-24N-W/D	Transistor		DC 10.8V DC to 2-24V 26.4V		Max. 87dB						Off white (-W) Dark Gray (-D)	Alarm														
BSV-24N-S		DC			3.5W	(at 1m) 1kHz Sine Wave		63sec.	*When using the Sound Reduction		100g	Silver (-S)	Alaiiii													
BSV-24PM-W/D		12-24V		0.011				,	oosec.		Upright Position)		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)	A I =							
BSV-24P-S											Silver (-S)	Alarm														
BSV-24				2 Playback Time L: 520 sec. Blank: 63 sec.	3 F B N	Registered Messa Ilank : None (15 A 1 : Pre-recorded I	ges larm Sounds) Messages	- 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

Normal Playback

4 Playback Modes

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

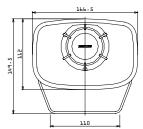
EHV - 🗆

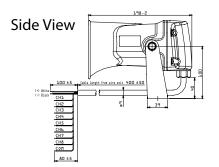
Momentary Playback

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

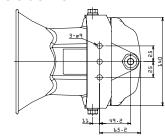
Dimensions (Unit: mm)

Front View





Underside View



Melody/Alarm Type

G: Type G

Wiring Type

T:Terminal*

H: Cable

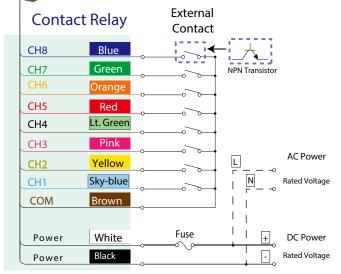
*Terminal type not available for EHV-M3



Wiring

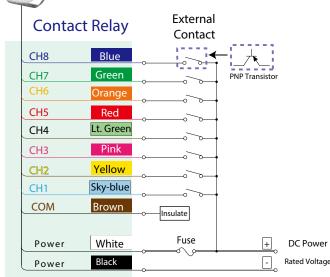
Non-voltage (NPN) Wiring



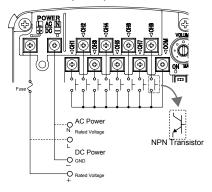


PNP Wiring

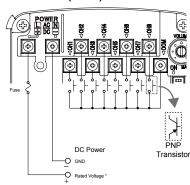




Terminal (NPN)







Transistor Capacity ((NPN & PNP)
Current Capacity	$I_c \ge 15 \text{mA}$
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∏-M1	12.5A
EH∏-M2	23.0A
EH□-M3	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)	0 0			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 90V to 264V	5.3W (AC240V NPN, Non-voltage Contact)	MP3: Max. 105dB (at 1m)	, , , , , , , , , , , , , , , , , , , ,	Siliary input os		Cable	1.251
EHV- M2T	AC 100 - 240V	AC 90V to 264V	5.3W (AC240V NPN, Non-voltage Contact)	Max. 103db (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.
- 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

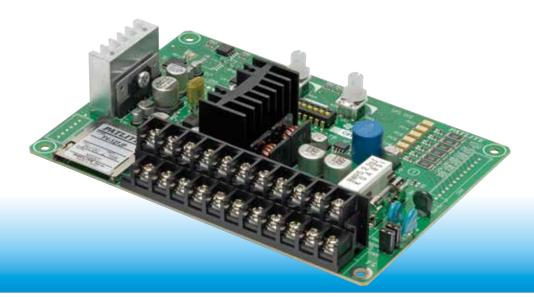


127 Channels (Binary)

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.

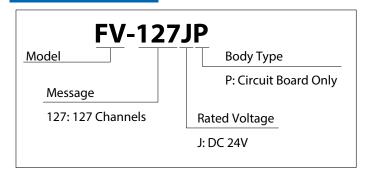
FEATURES

- 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

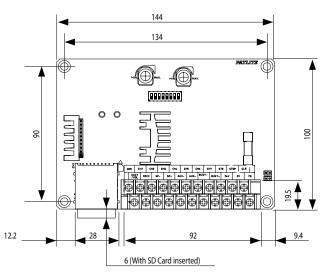
NOISE REDUCTION FEATURES

- 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)

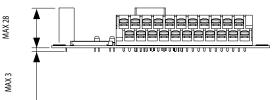
How to Order



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.



Dimensions (Unit: mm)



Normal
Playback

back once in case of one shot input, and audio message is repeated when the signal is input continuously.

Up to 23 audio message inputs can be memorized in order of input. After one playback

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.

Designated audio message is played back by distinctive signal input. Audio message is played

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

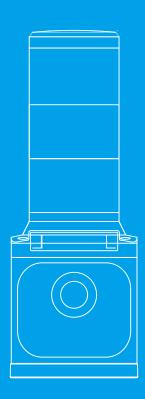
(1*) 1kHz Sine Wave Data Playback at -6dB

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

- 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



Hybrid Products



LKEH









MP3 Voice Annunciator & LED Signal Tower













32 Alarm Sounds

105_{dB at 1m}

IP53

(LED) **Ø100**

Open-collector









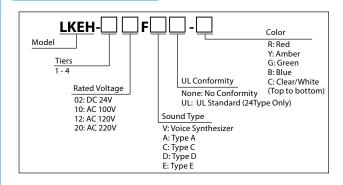
Get the attention you need with the PATLITE fieldprogrammable LKEH Series Hybrid Signal Tower with audible alarm.

- 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)

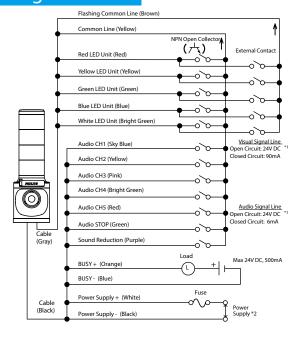
Use of Copyrighted Material

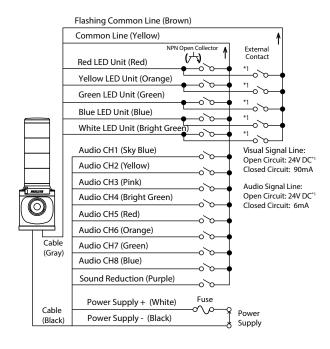
PATLITE Corporation has not applied for permission to use certain copyrighted music or songs recorded for Type-A, Type-C and Type-D melody charts outside of Japan. Therefore, please contact the local copyright association for permission before using the product in case this product is used outside of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

- 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.

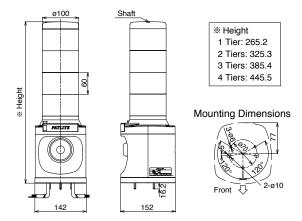
DV-2GP



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		İ	4	16.0W	2.0kg
LKEH- 110F			1	17.0W	2.1kg
LKEH- 210F	AC 100V	AC 100V ±10%	2	20.0W	2.3kg
LKEH- 310F	AC 100V		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 ±10%	2	20.0W	2.3kg
LKEH- 312F	AC 120V	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 220V	AC 220V ± 100/	2	20.0W	2.3kg
LKEH- 320F		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

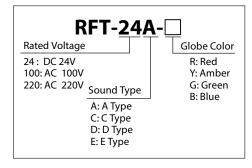


An LED Rotating Light with built-in alarm sounds controllable by binary or bit input for a maximum of 32 sounds!

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	l Macc I
İ	RFT I	RFT-24	DC 24V	DC 24V ±10%	12 W	Max. 90dB (at 1m)	-10°C - +50°C (85%RH or less)	115 ±15	IP54 (When Flush-mounted)	19.6m/s ²	1.0kg
		RFT-100	AC 100V	AC 100V ±10%	13 W						1.2kg
		RFT-220	AC 220V	AC 220V ±10%	13 W						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)

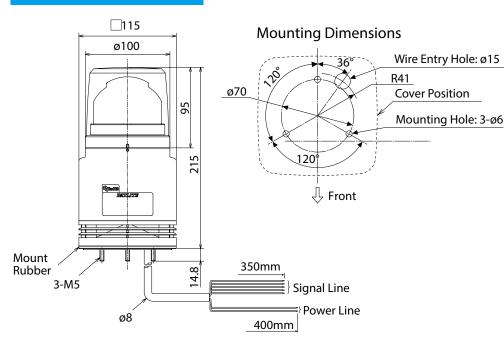
SD Card (2 GB) SDV-2GP

(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

1115

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
- 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.
- Highly-visible with a special optical reflector design.
- Special gear-driven mechanism provides reliability, even after 10 years of no operation.
- Tight-locking dome stays on, even in high vibration environments.
- Designed for inverted installation.

AVAILABLE BY SPECIAL ORDER

PNP open collector transistor type.

How to Order

RFV-24F- □

Rated Voltage

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

24: 24V DC

	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	May OF dD	1000 . 5000		IDE4		1.0kg
	I +	RFV-100	AC 100V	AC 100V ±10%	16W	Max. 95dB (at 1m)	-10°C - +50°C (85%RH or less)	115 ±15	IP54 (When Flush-mounted)	19.6m/s ²	1.2kg
		RFV-220	AC 220V	AC 220V ±10%	1000				(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)

Fuse
Power Supply

Power Supply (Black)

Common Line (Brown)

LED Warning Light (Red)

Audio CH1 (Sky Blue)

Audio CH2 (Yellow)

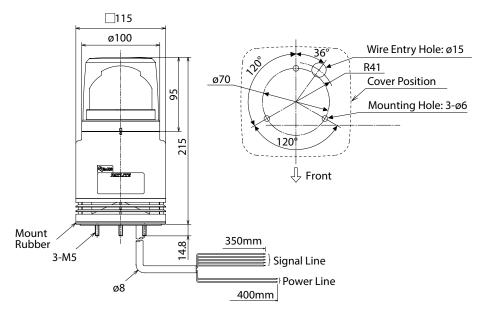
Audio CH3 (Pink)

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

Open-collector







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

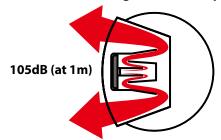
FEATURES

- 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

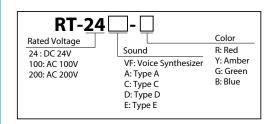
- Cable: Versatile and flexible 3m cable
- AC 120V type
- IP65 rating
- · UL Conformity

Horn Configuration Concept

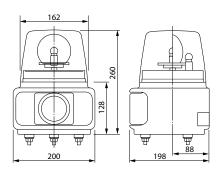




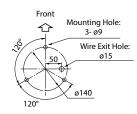
How to Order



Dimensions (Unit: mm)

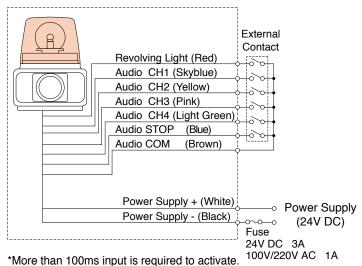


Mounting Dimensions



Wiring

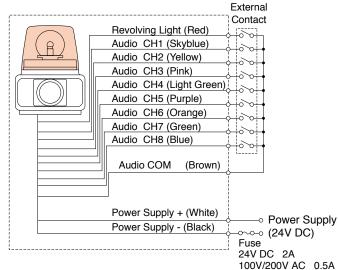
RT-VF



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

Series	Model	Rated	Operating	rating Power		ılb	Sound	Operating	Rotations per	Sound	Channel	Macc
Selles	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	Max. 90dB		115		D:+. /	2.0kg
Voice	RT-100VF	AC 100V	AC 90 - 100V	32 W	12V 15W		(at 1m)	-10°C - +50°C	105		Bit: 4 Binary: 15	2.4kg
	RT-220VF	AC 220V	AC180 - 240V	30 W	120 1300				95			2.4Kg
	RT-24 🗌	DC 24V	DC 21 - 27V	24 W	24V 20W	55	May OF JD	(85%RH or less)	115	(at 1m)	D:+. 0	2.0kg
Sound	RT-100 🗌	AC 100V	AC 90 - 100V	32 W	12V 15W	54	Max. 95dB 54 (at 1m)		105		Bit: 8 Binary: 32	2 Eka
	RT-220 🗌	AC 220V	AC180 - 240V	30 W	124 1344	34	(αι 1111)		95		Diriai y. 32	2.3Kg

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

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

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

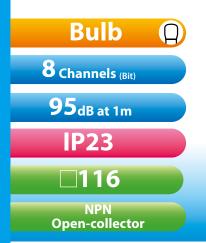
PATLITE Corporation has not applied for permission to use certain copyrighted music or songs recorded for Type-A, Type-C and Type-D melody charts outside of Japan. Therefore, please contact the local copyright association for permission before using the product in case this product is used outside of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

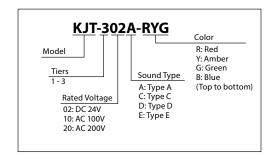
Sound Chart

Туре Е	Туре Е								
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)	Yelp (rapid siren) Call Sign		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						

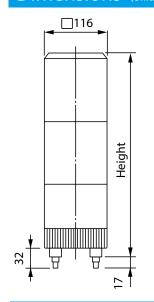
Use of Copyrighted Material

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

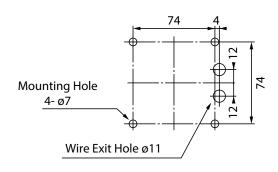


Dimensions (Unit: mm)



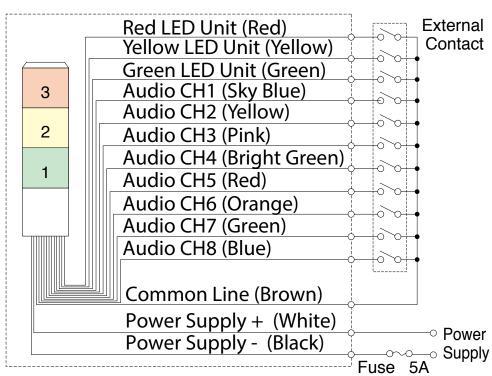


Mounting Dimensions





Wiring



Channel Priority:

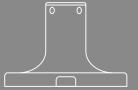
8 (Blue) > 7 (Green) > 6 (Orange) > 5 (Red) > 4 (Light Green) > 3 (Pink) > 2 (Yellow) > 1 (Skyblue) The greater number has priority when any of the channels are activated simultaneously.

Specifications

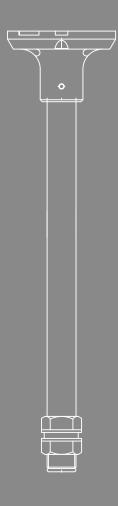
	Model		Rated Voltage	Operating Voltage Range	Power Consumption		lb Repl. No.	Rotations per Minute	Sound Level	Operating Temperature Range	Channels	Mass
		KJT- 102	24V AC/DC	AC/DC 21 - 27V	25W/18W	24V 10W	10	135		t -20°C - +50°C (85%RH or less)	8 Ch	1.4kg
	1 Tier	KJT- 110	AC 100V	AC 90 - 110V	20W 12	12V 5W	12	120				1.7kg
		KJT- 120	AC 200V	AC 180 - 240V		124 344	12	120				1.7 Kg
Ala		KJT- 202	24V AC/DC	AC/DC 21 - 27V	36W/28W	24V 10W	10	135	95dB (at			2.0kg
Alarm/ Melody	2 Tier	KJT- 210	AC 100V	AC 90 - 110V	26W	12V 5W	12	120	1m)			2.4kg
Miclody		KJT- 220	AC 200V	AC 180 - 240V	2000	124 344		120				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	32W	12V 5W	12	120				3.0kg
		KJT- 320	AC 200V	AC 180 - 240V								3.UKG

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



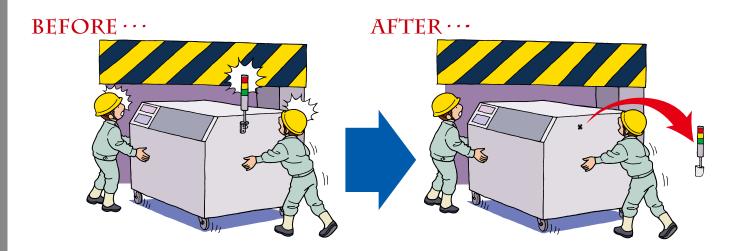
Optional Parts



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.

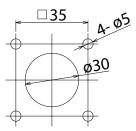


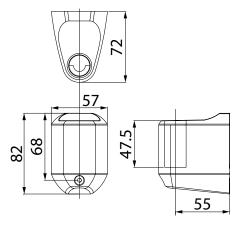
Hook the mounting bracket onto the metal tabs and attach it with the screws.

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



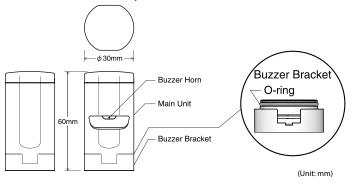


Model	Rated Voltage	Sound Level	Power Consumption
MP-B	AC/DC 24V	80dB (at 1m)	0.7W

Requires Red LED Module

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).



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



Wall Mount Bracket

SZ-018

Ivory White



SZ-018U

Silver

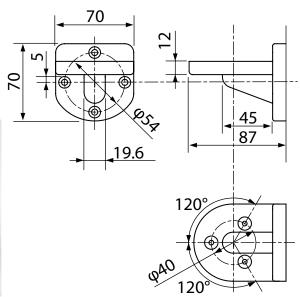


SZ-018K

Black

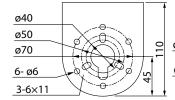


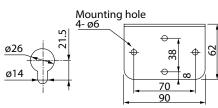




SZ-007

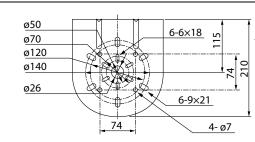


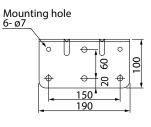




SZ-008

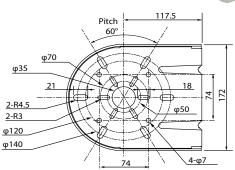




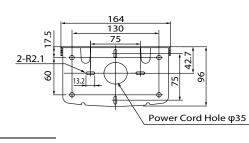


SZ-023





Model	Material	Compatable Models		
SZ-017	ADC12	LME, RUP		
SZ-018	PBT/ABS	LU7, LME, LHE		
SZ-028	FD1/AD3	LO7, LIVIE, LITE		
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 ²		
SZ-023	Bracket: Steel	Pitch for φ50, φ70, φ120,		
32-023	Bracket Cover: ABS	φ140, and 74mm²		
SZ-012	SPHC	LCE, LCS, LE, LES,		
SZ-013	SFIIC	LME, ME, MP		

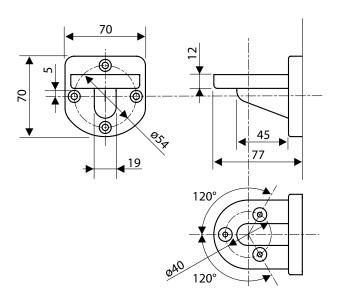




Wall Mount Bracket

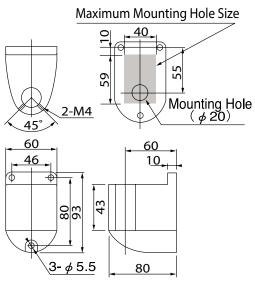
SZ-028





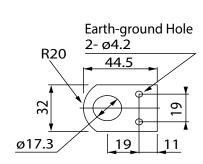
SZ-017 (For φ21.7mm Pole)

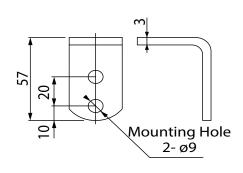




SZ-012 (Pole not included)

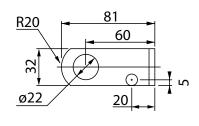


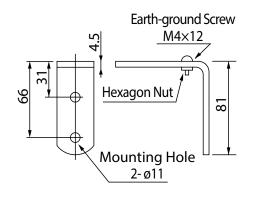




SZ-013 (Pole not included)







Includes SZ-012

Mounting Pole

φ50 (φ40) SZ-80L SZ-60L SZ-60T *RoHS SZ-60L SZ-60T *RoHS SZ-60L SZ-60L SZ-60L SZ-60T *RoHS SZ-60T *RoHS SZ-60T *RoHS

Includes SZ-012

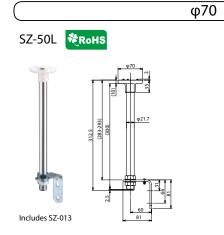
		<u>Material</u>									
Model	Upper	Pole	'L'	Cord	Mounting	Compatable					
	Bracket	Pole	Bracket	Bushing	Bracket	Models					
SZ-80L	ABS	Carbon-steel	SPHC	6/6 Nylon	_	LCE-W					
SZ-60L	ADC12	Pipe	SPHC	6/6 Nylon	_	LE-W, LES-AW					
SZ-60T	ADC12	lipc	_	_	ADC12	LL-VV, LLJ-AVV					
SZ-70L	ABS	Carbon-steel	SPHC	EPT	_	LME-W					
SZ-50L	ADC12	Pipe	SPHC	EPT	_	LU7, LHE-A					
SZ-50T	ADC12	Tipe	_	_	ADC12	LO7, LHE-A					
SZ-40L	ADC12		SPHC	EPT		KUS					
SZ-40T	ADC12	Carbon-steel	_	_	ADC12	KU3					
SZ-30L	Pipe		SPHC	EPT	_	RLE, RU, RH, PS,					
SZ-30T	ABS		_	_	ADC12	PES-A					
ADC12:	ADC12: Aluminum Alloy Dia-cast SPHC: Hot Polled Milled (Sheet) Steel										

φ81

Includes SZ-011

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









Includes SZ-010





Includes SZ-013 Cannot use with Rubber Gasket.

Includes SZ-010 Cannot use with Rubber Gasket.

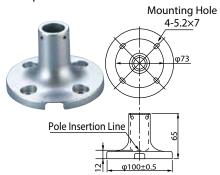
Includes SZ-013

Mounting Bracket





For φ21.7mm Pole



SZ-016A

For φ21.7mm Pole

Mounting Hole

4-φ5

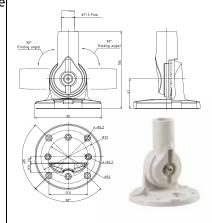
φ54

φ68

SZ-17Q



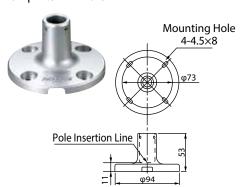
For φ17.3mm Pole



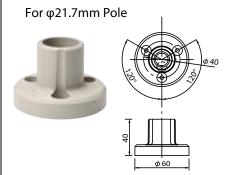
SZ-011



For φ17.3mm Pole



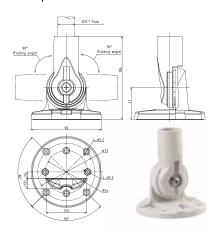
SZ-70-B



SZ-22Q

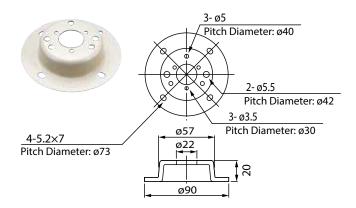


For φ21.7mm Pole



SZ-014





Model	Material	Compatable Models
SZ-010		RUP, LME, LMS, LHE
SZ-011	ADC12	LCE, LCS, LE, LES-A
SZ-016A	ADCIZ	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

Ivory White



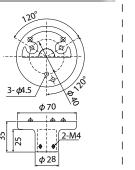
SZ-50K-U

Black



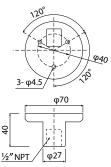
SZ-50U-U

Silver





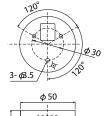
SZ-50NPT

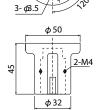


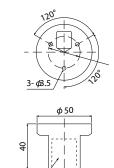
LU5 Upper Bracket

SZ-60-U For φ21.7mm Pole









φ28

½"NPT

SZ-903

SZ-60NPT

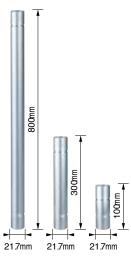
Pole

Steel Pole WWW008 WWW001 WWW001 WWW001

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

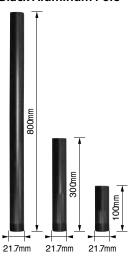
21.7mm

Aluminum Pole



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

Black Aluminum Pole



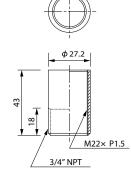
800mm : POLE-800A21K 300mm : POLE-300A21K 100mm : POLE-100A21K

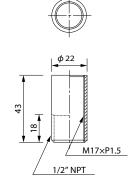
NPT Adaptor

SZ-904









Rubber Gasket

21.7mm

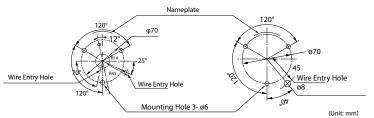
SZ-200A





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

Mounting Dimensions

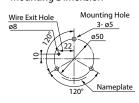


SZ-210

RoHS



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

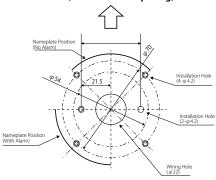


Outer Cover for LS7*
Part No.: B45110011-F1
*Only for connecting to the LS7.



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



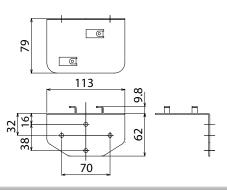
 Headcover (Off-white) B31310001-7F1 (Silver) B31310001-9F1

NHL Options

Wall Mount Bracket NH-WST



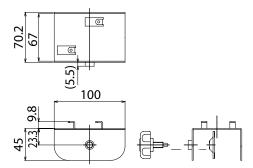








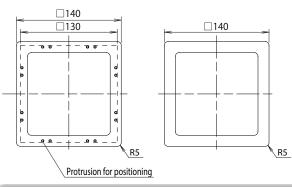
Partition Bracket NH-PST

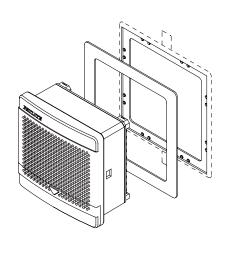


BKV Options

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 (ϕ 133mm² Type)





RFT/RFV Options

Wall Mount Bracket

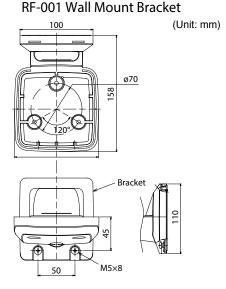


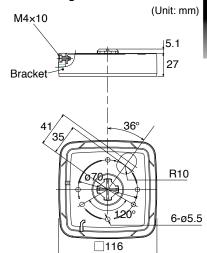
Ceiling Mount Bracket





RF-002 Ceiling Mount Bracket







Melody Charts

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		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

Туре-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 Straw
Synthesized Piano	Train Ride	The Camptown Races	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	Ending Notice Chime1	Daydream Believer	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 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 Е			(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 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

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Model	Bulb No.	Ratings	Part No.	Model	Bulb No.	Ratings
	1	12V 35W	D01203501-F1	(Vibration Resistant	39	28V 11W
RP35/BA15S	2	24V 35W	D02403501-F1		40	110V 12V
	5	Ratings 12V 35W 24V 35W	D04803502-F1	T20/BA15D	41	250V 11V
					42	12V 23W
RP35/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		
G18/BA15S	12	12V 5W	D01200503A-F1			
(10,0,1133	13	30V 10W	D03001006A-F1		50	28V 20W
	14	110V 10W	D11001006A-F1			
	15	220V 10W	D22001006A-F1			
	16	110V 15W	D11001506A-F1	T20/BA15D Vibration		
T20/E12	17	220V 15W	D22001506A-F1	Resistant		
	18	12V 6W	D01200604-F1		51	110V 20V
G14/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
T10/E10	28	24V 0.11A	D024/1107-F1	0	55	24V 20W
	36	120V 40W (Vibration Resistant)	D12004024-F1	G18/BA15S	<u> </u>	
	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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