

GENERAL CATALOG

(4) 10 10

PATLITE is Number 1 for Signaling Technology.

Combining innovative LED technology and advanced optical design, PATLITE's signaling products deliver the highest level of illumination and reliability with protection up to IP-69K. Featuring a broad selection of models, sizes, designs and optional accessories, you can find the best solution for specific requirements. PATLITE's quality standard guarantees long-term customer satisfaction in diversified applications. There is no better choice for signaling products than PATLITE for now and the future.

PATLITE is number one in the world for signaling solutions.

Outstanding Illumination

PATLITE's high-intensity LEDs and innovative lens design ensures outstanding illumination and exceptional brightness from any direction and distance.

Patented Reflection System

PATLITE's patented reflection system is optimized for full illumination over the entire lens.

Low Power Consumption

PATLITE's high-intensity LEDs are eight times more efficient than conventional incandescent bulbs.

PATLITE LED 🚇 15 KW/year Incandescent Bulb

PATLITE LED

Long Service Life and Reliability

PATLITE's high-intensity LEDs guarantees an extended service life of 60,000 hours. That is more than 5 years of continuous operation!

PATLITE LED	Over 5 years
Incandescent Bulb	Less than 1 year

130 KW/year

Note: For one LED module and one bulb with continuous operation

Reduced Maintenance and Labor

PATLITE's high-intensity LEDs drastically reduces costly maintenance requirements for replacing bulbs. The life of PATLITE's high intensity LEDs is over 16 times longer than conventional incandescent bulbs.

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Incandescent Bulb Replacement

Environmentally Responsible

Many PATLITE products use lead-free technology, and are RoHS compliant. In addition, long-life LEDs reduce waste compared to conventional incandescent bulbs.



Rugged and Robust Design

PATLITE's design with a center shaft in its signal tower ensures the structural integrity of the modules, promising protection against vibration and mishandling. Yet, it offers modularity and flexibility for changing the LED modules. The smooth-finished body surface prevents collection and adhesion of dust, making our products easy to clean. PATLITE's signaling products are constructed using worldclass quality materials to withstand harsh production environments.



"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 cellbased assembly system (combination, single, and flexible assembly). 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



3D CAD Design



- 5.001
- Electrical discharge machine



Machining Center



Injection molding machines

Wide-range of Innovative and World-class Quality Products



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



INTRODUCTION TO VISUAL & AUDIBLE SIGNAL APPLICATIONS

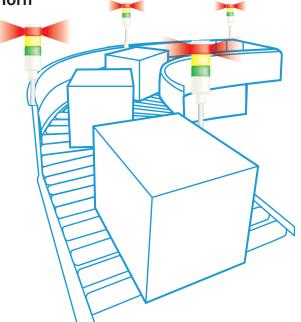
Since 1947, PATLITE has been at the forefront in developing and innovating a variety of signaling products. PATLITE's extensive product range covers highly advanced LED signal towers, beacons, audible alarms, annunciators, and work lights for industrial automation and security applications. As a top brand manufacturer, we aspire to become the global standard for signaling products.

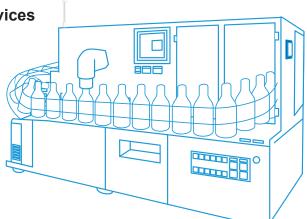
PATLITE products are used in various industries to improve productivity, quality, safety, and security. See how PATLITE can improve your process by reviewing the examples in the following pages.

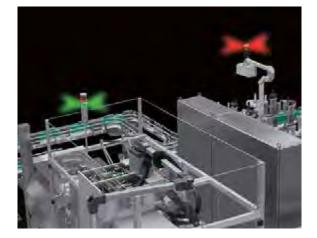
PACKAGING / PROCESSING MACHINES

Use PATLITE signaling devices to provide emergency management for automated carriers, belt conveyors, and other types of equipment on which cargo and/or devices are transported on.

- Recordable Smart Alert
- Smart Alert
- Signal Tower
- Signal Horn







SEMICONDUCTOR / LIQUID CRYSTAL

Achieve high levels of performance and profitability with semiconductor manufacturing equipment. Real-time machinery status monitoring. Ο

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- Signal Tower
- Signal Horn
- Recordable Smart Alert
- Smart Alert

PRINTING

Ensure safe operation by allowing operators to accurately ascertain the operating conditions of printing machines and sounding an alarm in the event of manufacturing losses or machine failure.

Enable operators of printing machines running at a high speed to quickly recognize manufacturing losses and equipment malfunctions by providing them with guidance on resolving paper-feed failures, replenishing ink at suitable times, and other such matters.

- Signal Tower
- Signal Horn
- Recordable Smart Alert
- Smart Alert

Enable appropriate actions to be taken at call centers, control rooms, and other information control centers.

Indicate the existence of incoming calls, system errors, etc, at call centers and other facilities. Also enable from remote locations to quickly recognize malfunctions and resolve them by displaying such information on the display panels for systems installed in control rooms at transport facilities and other sites.

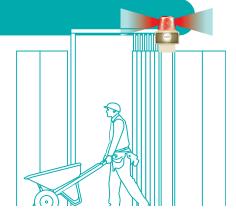
- Signal Tower
- Signal Horn
- Recordable Smart Alert
- Smart Alert
- Network Monitoring System

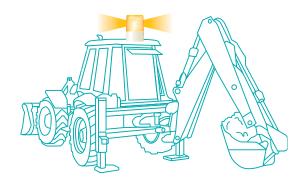
CONSTRUCTION MACHINES

Prevent accidents involving construction machinery and other accidents occurring at dangerous locations such as construction sites.

Help to mitigate the effects of blind spots on large construction vehicles and machines with the use of LED beacons and other alarm devices. Our broad lineup of products, such as loud Smart Alerts, ensures that workers are aware of alarms even at noisy construction sites.

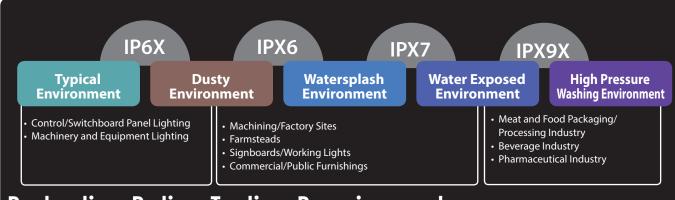
- Signal Tower
- Signal Horn
- Recordable Smart Alert
- Smart Alert





Index of Ingress Protection defined by CEI / IEC 529

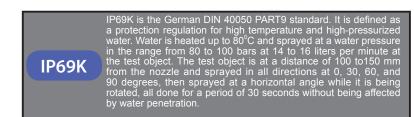
÷	Code No) 🔶
No protection.	0	No protection.
Protection against solid objects larger than ø50mm.	1	Protection against vertical falling drops of water.
Protection against solid objects larger than ø12mm.	2	Protection against dripping water when tilted up to 15°
Protection against solid objects larger than ø2.5mm.	3	Protection against spraying water.
Protection against solid objects larger than ø1mm.	4	Protection against splashing water.
Protection against dust-limited ingress (dust-protected).	5	Protection against water jets.
Total protection against dust (dust-tight).	6	Protection against heavy seas.
	7	Protection against the effects of immersion.
	8	Protection against submersion.



Protection Rating Testing Requirements

- 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.





Our plan is to increase "Safety, Security, and Comfort" to serve the world.



CEO and President Setsujiro Yamamoto

We earnestly seek to provide valuable goods and services from the customer's viewpoint. We work to create a company that thrives on adversity, building a company for the enrichment of society.

We, the PATLITE group, have obtained customer support and established a dominant position in the Japanese market as a leading manufacturer of information display equipment by providing value added products and services guided by our corporate philosophy of "Safety, Security, and Comfort".

The PATLITE group wants to achieve various social contributions and promote environmentally friendly products through our daily corporate activities, while constantly refining our corporate philosophy to reflect the demands of the current times. Our intention is to grow as an enterprise into a global business that can be relied upon by society and trusted by customers of the world, as we are in Japan, as a leading company in the industry by capitalizing on the strengths of our activities in our country. You can count on our growth. We ask for your continuous support and encouragement.

Localized Product Development

While PATLITE implements local marketing strategies for the area, We are also building a sales network to meet the characteristics for each country and area. The customer's request is precisely understood and the product development details are considered for global standards as well as for local specifications. Furthermore, the various safety standards and environmental regulations of the world are taken into account.

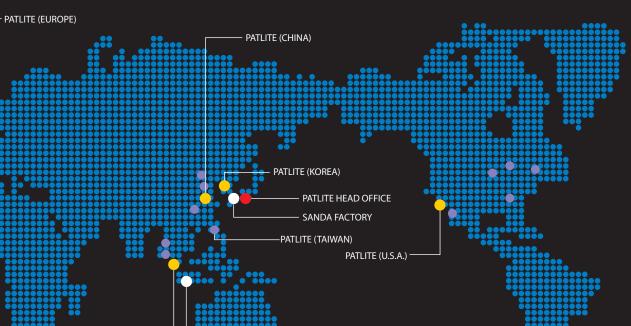
Global Support System Established

PATLITE (SINGAPORE)

PATLITE (INDONESIA)

Unique value-added solutions are developed by being sensitive to and catching the customer's needs through our sales network and distribution channels established in primary markets for each country of the world. We established an organization for quick response and flexible support from the customer's viewpoint, in order to accelerate globalization. We promise to propose solutions and to become a reliable partner as a professional in the manufacturing industry.

PATLITE (EUROPE) PATLITE (CHINA) PATLITE (KOREA)



Headquarters Production factories

Sales Subsidiaries Offices





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RLE	127
RLR	144
RS	130
RT	190
RU	130
RUP	130
S	
SKC-A	136
SKH-A	132
SKHB-1006D	132
SKHE	126
SKH-EA	133
SKHEB	126
SKL-A	135
SKP-A	134
SKV-A	137
	137
V	
VE25	44
VE100	44
W	
WD	32
WE	104
WEP	104
WEP-C3	38
WEP-K3	36
WH-A	140
WK-A	140
WME-A	107
WSST	114
X	
XME	27
XPE	27
AFE	20

Signal Tower

							11									
D : (1						Attend		
Diameter	(mm)	2		MDO	30		1.05	4					50			
Model			MES-A		MP	MP-C	LCE	LCE-U	LCS	LCS-U	LES-A	LE	LU5	LU5-U	LU5-K	
Page No.		6	2	C	4	66	6	8	/	1	73	75		78		
	AC/DC12V DC24V															
		•	U										•	•	•	
	AC/DC24V AC90-250V															
Voltage	AC90-250V AC100V						0	0				•				
	AC100V AC120V															
	AC120V AC220V															
	AC220V AC230V															
	White						•		•			•				
Body	Silver				•		•		•			•				
Color	Black															
Sound	dB						8	5				85		85		
Function								2				2		2		
Connector													$\begin{array}{c c} 2 \\ \bullet & \bullet & \bullet \\ \end{array}$			
Туре	M12 QD															
Transistor	PNP								•							
Input	NPN															
Flashing	Function						\bullet					\bullet			\bullet	
IP Rating		4	2		65		6	5	5	4	65	54		65		

Wall Mount Signal Tower

Model		WE/WEP	WME-A
Page No.		106	109
Voltage	AC/DC24V	\bullet	
vollage	AC90-250V		\odot
Body Color	White	\bullet	
BOUY COIO	Chrome-plating	\bullet	
Sound	dB	90	90
Function	Sounds	2	2
Transistor	PNP	\bullet	
Input	NPN	\bullet	
Flashing Fu	nction		
IP Rating		65	65

Netwo	rk				and a		
Model		LE-K3	WEP-K3	LE-C3	LHE-C3	WEP-C3	
Page No.			38		40		
Voltage	DC 5V						
	DC 24V						
	AC120V						
	CompoNet						
Network	CC-Link						
	ZigBee						
	LAN						
Connection	USB						
CONNECTION	RS-232C						
	2.4GHz						
Dedu	White						
Body Color	Silver						
00101	Black						
	Pole						
Mounting	Direct						
	Wall						
Sound	dB	85	90	85	90	90	
Function	Sounds	2	1	2	2	1	
IP Rating		23	23	23	65	23	

			W.	ange											
		1											1		100
	LME		LME-N				LU7-S	LU7-SU			LU7-U	LU7-K			LGE
82		84	1	8	8	91		1	9	4	1		10	J2	112
-	-					-				•					
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	\bullet						\bullet								
		90		9	0	90							9	0	85
		2			2	2			2	2				2	1
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65				6	5	65			6	5			6	5	54
		LMS LME 82 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	LMS LME LME-U 82 84 90 0 1 1	Image: Constraint of the sector of the s	Image: Second secon	Image: Note of the sector o	Image: Note of the sector o	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Image: series of the serie	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

Contrast of								2423/77 00000
-						0	PLAN BBBB ACTUAL B28 STATUS	PLAN 1234 Actual 987 Status - 10
NHL	PHE-3FBE1	PHC-100A	PHU-3	WDR-LE	WDT-5E	WDT-6M	VE25	VE100
36	42	43	44		34			46
				•				
				•	•			
				•				
00	05							
80	85		1					
4	2		-					
20	-	-	20	-	-	-	-	-

Revol	ving Wa	rning	g Lig	ht													
		Y Y															
Diameter			82	,				,		100					118	138	
	odel	RLE	RU	RS	RKE	RKEM	RHE	RHEM						WK-A	SKH-A	SKP-A	
Pag	ge No.	129	1:	32	130	131	130	131		33	128	135		42	134	136	
	DC12V																
	DC24V																
	AC24V																
	DC48V																
Valtara	AC100V	\bullet							\bullet								
Voltage	AC120V																
	AC200V													\bullet			
	AC220V																
	AC240V																
	AC100-200V																
	White																
Body	Silver				1			1				İ	İ			İ	
Color	Black																
	Dome Color		İ	İ	1	1		1		1			İ				
	Red	\bullet															
	Yellow								•		•						
Dome Color	Green																
	Blue																
	Violet																
Sound	dB				88	88	88	88	90	90	88		90	90	90		
Function	Sounds				1	1	1	1	1	1	1		1	1	1		
	Bulb																
Light	LED																
	Halogen			Ì													
IP Rating		23	23	23	23	23	23	23	23	23	23	23	54	54	23	23	
	w/Gasket			55	55		55		55								

Explosion-proof Signal Tower

L API	031011-h		orgina									
						0				Constanting of the		
Model		EDLM	EDWM	AR-070	AR-078	EHS/EHV	LKEH-FV	LKEH-FE	CLN	CLK	CLA	RES-A
Page N	0.	5	0	52	53	55	5	4	56	57	58	59
	DC12V											
	DC24V					\bullet						
	AC24V											
	DC48V											
Valtaga	AC100V											
Voltage	AC120V											
	AC90-250V		0									
	AC220V											
	AC230V											
	AC240V											
Zone	1, 21											
Zone	2, 22					•						
Conforn	CE											
	Ex											
IP Ratin	Ig	66	66	65	65	65	54	54	66G/67G/69K	66G/67G/69K	66/67/69K	66

12

Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

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T T							1.4.4	C ALL
	162			182	186	187	204	
KP-A	SKHB-1006D			HP	KG	SKC-A	SKV-A	
141	140	137	146	143	144	138	139	145
		•						
						•	•	
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	75							
	1							
23	23	23	66		23	23	66	
20	20	20	50		20	20	00	

Cube Tov	ver			100
Size (mm)		70 x 70	82 x 82	116 x 116
Model		KUS	KJS(B)	KJ(B)
Page No.		148	150	152
Voltage	DC12V DC24V AC24V AC100V AC120V AC220V			
Body Color	Ivory White	\bullet		
Alarm Function	dB	80	85	85
	Tones	1	1	1
Transistor Input	PNP NPN			
IP Rating		54	23	23

Signal Light

							ý · ř				
Diameter	(mm)	57		100		107	8	2	16	2	187
Model		NE-24	KHE	LFH	LFK	PEW-A	PES-A	PSE	KPE-A	XPE	XME
Page No.		120	121	26	27	122	122	25	124	28	29
	DC12V										
	DC24V										
	AC24V										
	DC48V										
Voltago	AC100-230V			\odot				0		0	0
Voltage	AC100V										
	AC120V										
	AC200V										
	AC220V										
	AC230V										
Dadu	White										
Body Color	Silver										
00101	Black										
Transistor	PNP										
Input	NPN										
Sound Fu	unction										
IP Rating		65	23	66	55	54	23	23	23	Ì	
U	w/Gasket		55		258-9200 - s						
	Courtesy d	of Steven E	Ingineering	, Inc (800)	258-9200 - s	ales@stev	eneng.com	i - www.ste	evenenginee	ring.com	

LED Lights

	3																	
										-0			7.	3				
Model					CLA						С	LK				LN	LP3	LP5
woder					GLA				-AG	-AG	-AS	-SG	-AG	-AS	-(P)T	-(P)T	LPS	LPD
Size (mm)		100	200	300	600	900	1200	1500	200		300		60	00	85	x85	110	240
Page No.					156						1	58			2	20	30	31
Voltaga	DC24V																	
Voltage	DC12/24V																	
.	Aluminum																	
Body Material	Stainless Steel																	
Material	Polycarbonate																	
	Tempered Glass																	
Cover	PMMA Resin																	
	Polycarbonate																	
	Daylight																	
	Natural White																	
	Warm White																	
Light Color	Red																	
00101	Amber																	
	Blue																	
	White																	
	Water	•							\bullet		•							
Resistance	Oil																	
	Dust																	
IP Rating				6	6/67/6	9K				(66G/6	7G/69	K		66G/6	7G/69K		-



Audible Alarms & Annunciators

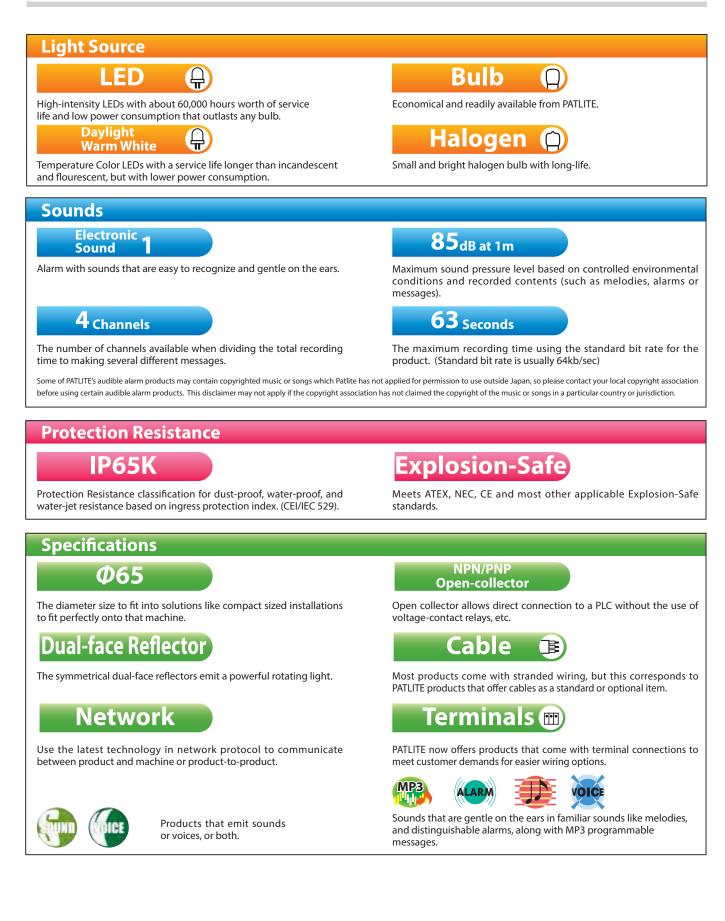
Addin		<u> </u>		nora			1150						
			0				0 (0) (0)	BUR	Non-		7		
Model		BM	BM-H	BM-D	BD	BK	BSV	BDV	BKV	EHS	EHV	EWHS	FV-127JP
Page No			162		164	166	176	178	180		22	168	182
	DC12V												
	DC24V				Ŏ	Ŏ		Ŏ	Ŏ	Ŏ	Ŏ	Ŭ	
	AC24V	Ó	Ŏ										
Voltage	DC48V												
	AC100V											\bullet	
	AC120V												
	AC200V												
	AC220V												
	Ivory White										\bullet	\bullet	
Body	Red											\bullet	
Color	Yellow											\bullet	
	Black												
	Silver												
Sound	dB (at 1m)	80	90	80	90	95	87	87	95	110	105/110	105	
Function	Melody/Alarm											\bullet	
	MP3												
Channel		2	2	2	4	8	4(15)	4(15)	5(31)	8(32)	8(63)	1	7(127)
	Sounds (sec)				32	32	63	63	63	31	63		480
Sound R													
Transistor	PNP								_	-			
Input	NPN												
IP Rating	l	-	-	34	54	54	54	54	54	54	54	53(65)	-

Contraction in the local division in the loc

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Hybri	d Annuncia	tors		1	1 The			
Model		LKEH-FE	LKEH-FV	RFT	RFV	RT-FE	RT-FV	KJT
Page No	Page No.		186		190	192		194
	DC24V							
	AC24V							\bullet
Voltage	AC100V							\bullet
	AC200V							\bullet
	AC220V							
Coursel	dB (at 1m)	1(05	90	90	105	105	95
Sound Function	Melody/Chimes							
	MP3							
Channel	Inputs		32		15		8	4
Playback	Duration (sec.)		63		63		32	16
Transistor	PNP							
Input	NPN							
IP Rating		53	53	54	54	23 (65)	23 (65)	23

Symbols Used in this Catalog



AUTION

For more details on these products, refer to the Instruction Manuals and specification sheets prior to use. Follow all safeguards to prevent fire, electric shock or other accidents. Specifications are subject to change without prior notice.

New Products





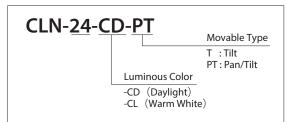
Water and Oil resistant high-power LED Work Light with an illuminance of 820 lx.

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).

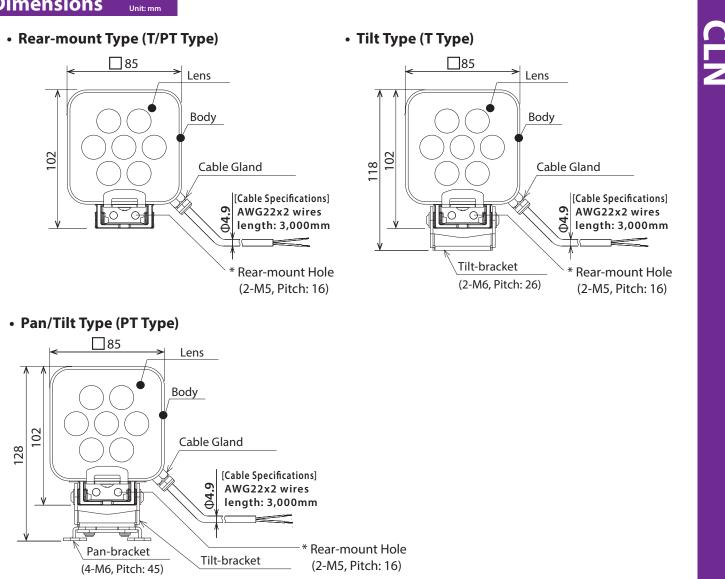
How to Order



Specifications

Model		CLN-2	24-[_]-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)	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				

Dimensions



Features



tilt Has 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 (T Type)



Adjusts to 120° Has tilt adjustment of 180° with a pan angle of 120°, and can be folded up to a width of 43mm. any application.

Floor Mount Example

Wall Mount Example Ceiling Mount Example





Horizontal wall-mounting and free adjustment for The tilt & pan/tilt brackets can also be removed for Rear Attachment applications.

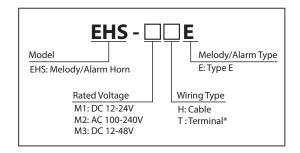
>4	EHS/EHV	
HS/F	MP3 Alert/Melody/Alarm Horn	
	110 _{dB at 1m} EHV 63 Channels (Binary) 220 Seconds	IS PARLIER
	IP65 NPN/PNP Open-collector	
	Cable 🕞 Terminal m	

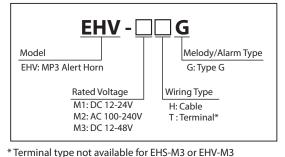
Exceptional Sound Quality Field Programmable MP3 Melody/Alarm Horn

FEATURES

- EHS comes with 32 preloaded melody and alarm sounds with adjustable volume up to 110dB (@ 1m).
- EHV comes with 63 preloaded crisp and clear melody and alarm sounds with adjustable volume up to 110dB (@ 1m).
- EHV offers a field-programmable MP3 function with a maximum of 220 sec. of recording time (@ 64bps) and an adjustable volume up to 105dB (@ 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 and EHV-M1 Only).

How to Order



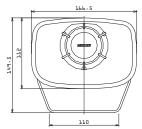


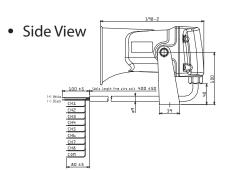
EHS vs EHV (Functionality Comparisons)

LIIS VS	Ens vs Env (runctionancy compansions)										
Model	Onboard Sounds	MP3 Playback	Playback Modes	No. of Playback Channels							
EHS 32 Sounds No 1 Mode 8 ch Bit Input/ 32 ch Binary Inp											
EHV	EHV 63 Sounds Yes* 4 Modes 8 ch Bit Input/ 63 ch Binary Input										
* Internal M	* Internal Memory size of 2 Mbytes, maximum playback of 220 seconds at a 64kbit/sec rate										

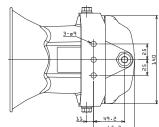
Dimensions

Front View





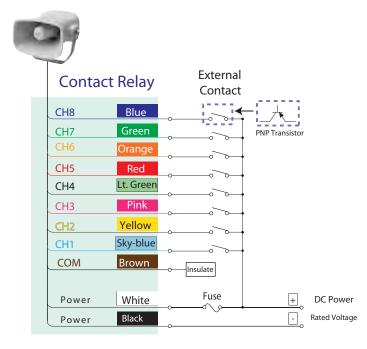




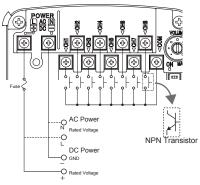
Wiring

• Non-voltage (NPN) Wiring

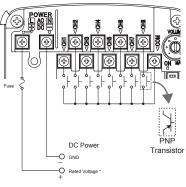
0	29					
	Conta	ct Relay		External Contact		
	СН8	Blue	_0			
	CH7 CH6	Green	-0		NPN Transistor	
	CH5	Orange Red	0	\rightarrow		
	CH4	Lt. Green				
	СНЗ	Pink	-0			AC Power
	CH2 CH1	Yellow Sky-blue	-0			Rated Voltage
	СОМ	Brown	-o			
				-		
	Power	White	-0	Fuse		DC Power
	Power	Black	-0	-	o	Rated Voltage



• Terminal (NPN)



• Terminal (PNP)



PNP Wiring

Transistor Capacity (NPN & PNP)							
Current Capacity	$I_c \ge 15mA$						
Current Leakage	$I_{L} \leq 0.1 \text{mA}$						
Withstand Voltage	$V_{c} \geq 35V$						
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						
ЕНмз	45.0A						

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 26.4V	5.0W (DC24V NPN, Non-voltage Contact)					Cable	1.25kg
EHS- M1T	DC 12 - 24V	DC 10.8V to 20.4V	5.9W (DC24V PNP, Voltage Contact)		aala			Terminal	1.25ку
EHS- M3H	DC 12 - 48V	DC 10V to 60V	5.1W (DC48V NPN, Non-voltage Contact)	Alarm: Max. 110dB (at 1m)	-20°C to +50°C (85% RH or less)	Bit Input: 8 Binary Input: 32	IP65	Cable	1.15kg
EHS- M2H	AC 100 - 240V	AC 90V to 264V	6.9W (AC240V NPN, Non-voltage Contact)					Cable	1.25kg
EHS- M2T	AC 100-240V	AC 90V 10 204V	0.5W (AC240V NEW, NOIPVOItage Contact)					Terminal	1.23Kg

EHV

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 20.4V	5.0W (DC24V PNP, Voltage Contact)	Alarm: Max. 110dB (at 1m)				Terminal	т.25ку
EHV- M3H	DC 12 - 48V	DC 10V to 60V	5.6W (DC48V NPN, Non-voltage Contact)		-20°C to +50°C (85% RH or less)	Bit Input: 8 Binary Input: 63	IP65	Cable	1.15kg
EHV- M2H	AC 100 - 240V	AC 001/4- 2041		MP3: Max. 105dB (at 1m)		binary input ob		Cable	1.251.5
EHV- M2T	AC 100 - 240V	AC 90V to 264V	5.3W (AC240V NPN, Non-voltage Contact)	Max. 1050b (at 111)				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.

Note 2: Even when starting two or more units simultaneously, a lag will occur during message playback.

EHS/EHV

4 Playback Modes

Normal

Memory Playback

Designated audio message is played back by distinctive signal input. Audio message is played back Playback 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 is finished, the next memorized audio message will be played back. The inputs exceeding the limit will not be memorized.

<u>Get the Playlist Editor 2 (free from PATLITE)</u>

- 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	Voc	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		This product is not compatible with the 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		
PATLITE Playlist Editor	No			

Type-F	Гуре-F (For Japan Only)						
Beep (slow intermittent)	Spring Melody	A Maiden's Prayer	Itsy Bitsy Spider	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)	Galactic 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	MURANO KAJIYA	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	ype-G (All Countries)					
Beep (slow intermittent)	Galloping Hi-Lo	Galactic 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			

Latest Input Priority Playback	When a sig the curren and the m instead.
	Audio mes

gnal is input during a message playback, t message playing back will be stopped, essage of the signal input will be played

Momentary Playback

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

Type-A (For 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	lch bin ein Musikante		
Spanish Romance	Katyusha	Grandfather's Clock	Ave Maria		

Type-C	rpe-C (For Japan Onl				
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")		
l don't Wanna Miss a Thing	Yozorano Mukou	Aiwa Katsu	Haruyo Koi		
Gattsudaze	Odoru Ponpokorin	Imasugu Kisu Mi	Truth		

Type-D		(For 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	

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

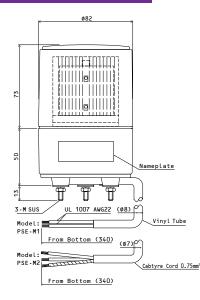
Use of Copyrighted Material

PATLITE Corporation has not applied for permission to use certain copyrighted music or songs recorded for Type-A, Type-C, Type-D and Type-F 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 and Type-G are recommended for use outside of Japan as this playlist does not include copyrighted music or songs, and permission is not required.



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

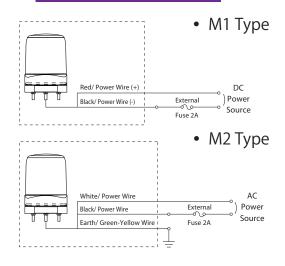
Dimensions



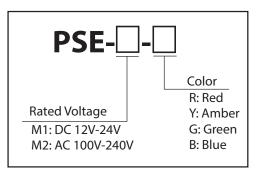
Specifications

Model	PSE-M1	PSE-M2		
Rated Voltage	DC 12V - 24V	AC 100V-240V		
Power Consumption	2.4W (max.)	3.2W (max.)		
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			

Wiring

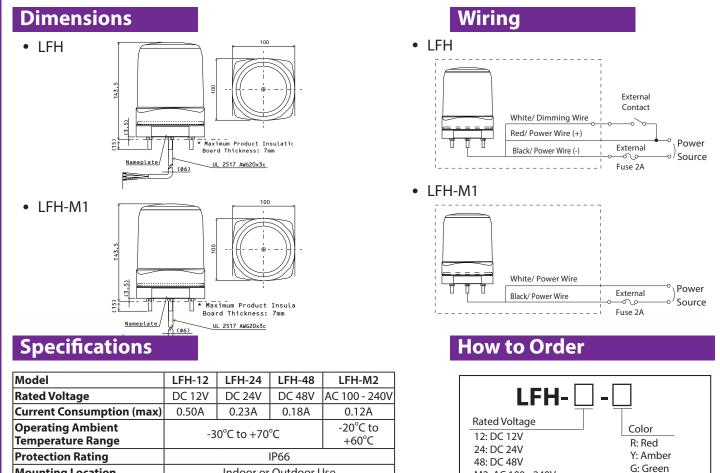


How to Order





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



Mass *1 LFH-48 not CE certified.

Flash Rate

Certifications

Mounting Location

Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

0.61kg

M2: AC 100 - 240V

B: Blue

C: Clear/White

Indoor or Outdoor Use

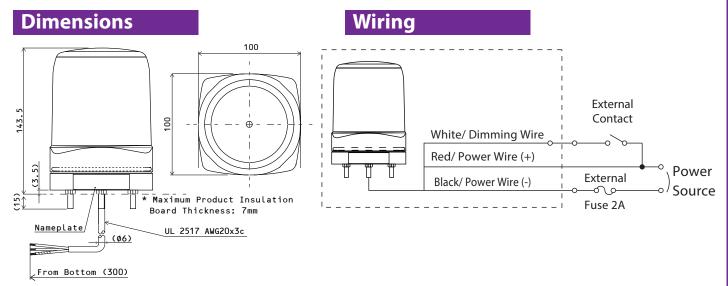
110 ±10fpm (Triple-flash)

UL, CE^{*1}, RoHS, FCC

0.57kg



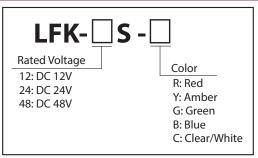
New LED flashing beacon! So bright, it has a dimming input.



Specifications

Model	LFK-12S	LFK-24S	LFK-48S	
Rated Voltage	DC 12V	DC 24V	DC 48V	
Current Consumption (max)	0.49A 0.19A 0.17A			
Operating Ambient Temperature Range	-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			
Mass	0.5kg			

How to Order



*1 LFK-48 not CE certified.



New LED flashing beacon! Available in four LED Colors.

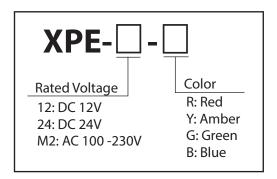
FEATURES

- 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.

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 - 28V		AC 90 - 250V	
Current Consumption	0.50A 0.23A		0.12A	
Operating Ambient Temperature	-30°C to +70°C		-20° C to $+60^{\circ}$ C	
Protection Rating	IP23			
Mounting Location	Indoor or Outdoor Use			
Flash Rate	110 ±10fpm (Triple-flash Pattern)			
Certifications	RoHS			

How to Order





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

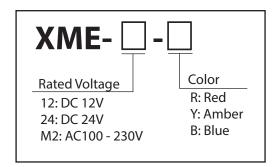
FEATURES

- 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.

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	
Operating Ambient Temperature	-30°C to +70°C		-20°C to +60°C	
Protection Rating	IP23			
Mounting Location	Indoor or Outdoor Use			
Flash Rate	110 ±10fpm (Triple-flash Pattern)			
Certifications	RoHS			

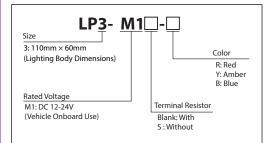
How to Order



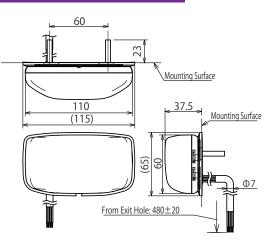


How to Order

L P3



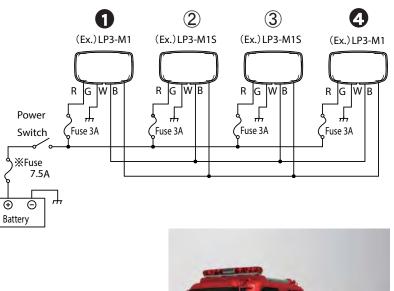
Dimensions



Specifications

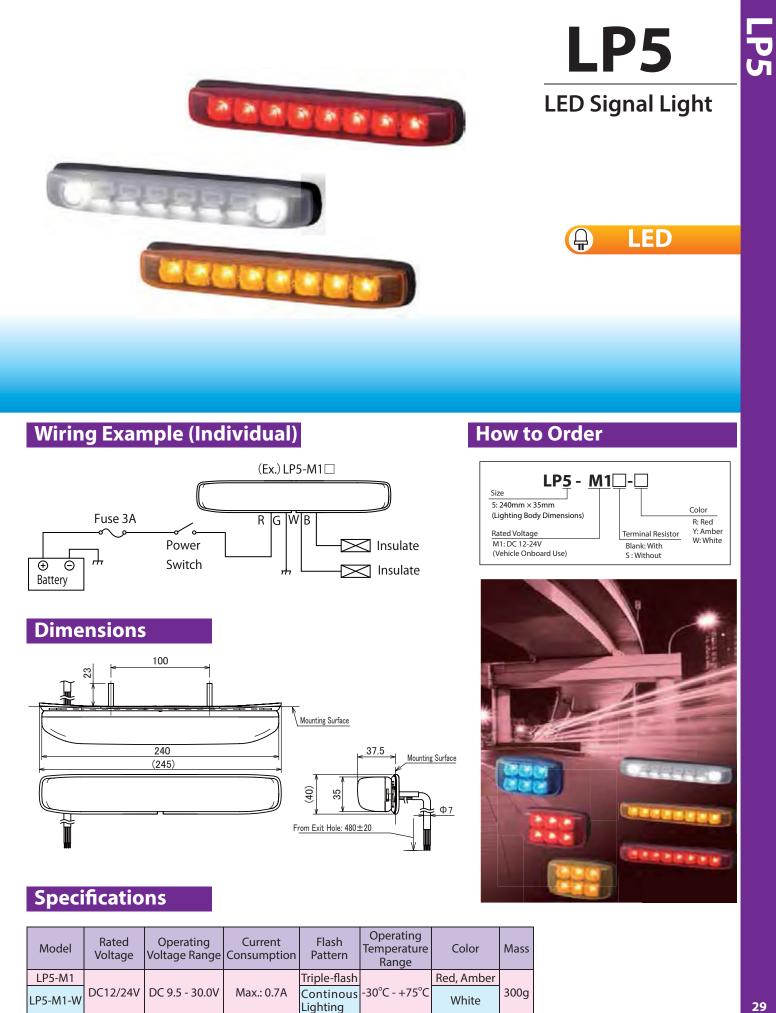
Model	Rated Voltage	Operating Voltage Range	Current Consumption	Flash Pattern	Operating Temperature Range	Color	Mass
LP3-M1	DC12/24V	DC 9.5 - 30.0V	Max.: 0.7A	Triple-flash	-30°C - +75°C	Red, Amber, Blue	250g

Wiring Example (Cascading)





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MEMO

For more details, visit our website at http://www.patlite.com

Network Products

AlirGR



WD

Wireless Data Acquisition System



Monitor remotely and collect data wirelessly from a PATLITE Signal Tower

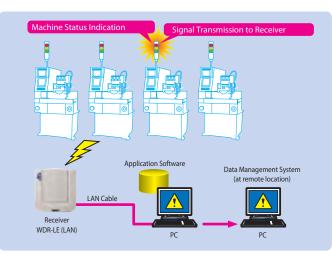
PATLITE wireless add-on modules and receivers make PATLITE Signal Towers capable of sending electrical signals over a wireless network to a data center. PATLITE wireless add-on modules and receivers are a uniquely practical and economical solution for data acquisition, machine status remote monitoring,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

- 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.
- 2) Wireless technology of today eliminates tedious wire installation The "AirGrid" 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.
- 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.

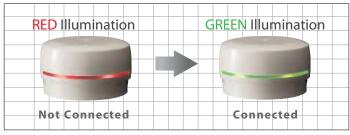
Dimensions		+ =	
WDR-LE		Signal	Wireless
Altrando		Tower	Transmission
<u>< 125</u> →	WDT-6M	WDT-5E	
(Unit: mm)	φ65 φ60 (Unit: mm)	φ65 φ50 (Unit: mm)	

Typical Applications

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



Network Connection Condition



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

Specifications

Transmitters

Model	WDT-6M WDT-5E				
Applicable Signal Tower	Φ60 LME Series Φ50 LE Seri				
Rated Voltage	DC 24V (No Polarity)				
Voltage Range	20.4V - 26.4V DC				
Current Consumption	35mA				
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 (Indoors Only)				
Protection Rating	Determined by PATLITE Signal Tower IP Ratings				
Dimensions (mm)	Φ65 x 36.9 Φ65 x 38.5				
Mass	55g				

Ask your PATLITE Sales Representative for AirGrid compatable PATLITE Signal Towers

Features

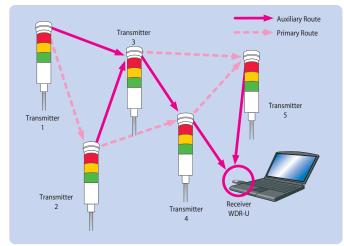
Wireless Standard	IEEE 802.15.4 for Zigbee 2.4GHz		
Frequency Bandwidth	2,400MHz - 2,483.5MHz (16 Channels at 5MHz Step starting from 2,405MHz)		
Networking Connections	up to 20 Units (*1)		
Antenna Output	Maximum 1mW		
Compliances	FCC, CD (R&TTE), RoHS		
(*1) Number of possible Units to connect is based on the wireless environment and installation location			

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

Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

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 AirGRID is stored in a file format CSV which any off-theshelf data management software e,g, SCADA can handle.



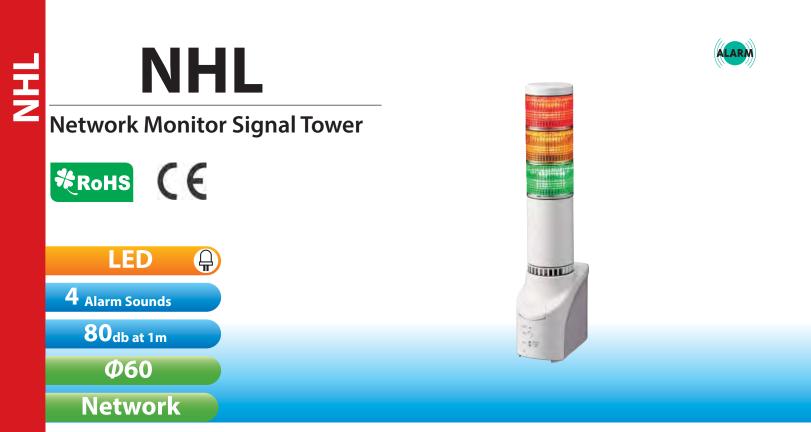
Transmitter Installation



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.)

Receiver

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



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

Specifications

	Model	odel			NHL-3FB1U-RYG				NHL-3FB1N-RYG			
NHL-3FB1 -RYG			Rated Voltage	AC 100V to 240V				-				
		AC Adaptor	Operating Voltage Range	AC 90V to 264V -								
	R: Red		Rated Voltage	DC 24V								
Tiers AC Adap	otor Y: Amber G: Green	Main Unit	Power	Unit	Red	Amber	Green	Blue	White	Buzzer		
3 U: Incluc	biblac		Consumption	2.0W	1.5W	1.5W	0.8W	0.8W	0.8W	2.0W		
N: Not Ir	ncluded C: Clear/White (Top to bottom)	Operating Temp	Operating Temperature Range			0°C - +40°C						
		Storage Tempe	Storage Temperature Range			-10°C - +60°C						
		Relative H	lumidity	RH of 20 to 80% (No Condensatio				ion)				
		Vibration F	esistance	19.6m/s ²								
Dimensions		Protectio	n Rating			•	lot Wate	,				
	Alarm Sound -	Audio Level	Three-position switch for "HIGH", "LOW", "OFF" "HIGH": 80dB or more "LOW": 70dB or less (Tested at 1m from diaphram in upright position)						n)			
NHL-3FB1U-RYG NHL-3FB1N-RYG		Tone Pattern	Four distinctive patterns: (Slow Intermittent), (Fast Intermittent),(Fast Burst), (Continuous)									
		"CLEAR"	Pushbutton Switch									
φ60		Switches	"TEST"	Pushbutton Switch								
		Switches	"RESET"	Pushbutton Switch								
			"BUZZER"	Slide Switch								
	Upright Base (Standard Item)		Ethernet	Physical Layer: 10BASE-T/100BASE-TX (Auto-negotiation/Full Duplex/ Half Duplex)								
	(,			Data Link Layer: CSMA/CD								
	125.5	Communication Method		Network Link Layer: IP / ARP / ICMP								
	125.5			Transport Layer: TCP / UDP								
	74			Application Layer: HTTP / RSH / SMTP / SNTP / POP / DNS / NTP / DHCP / Socket								
		Mounting	Location	Indoors Only								
			Direction	Desktop or Wall-mount in the Upright Position								
		Mass (AC Adapto	800g									
	N94.5	Acces	ories	AC Adaptor, Rubber Feet, Adhesive Tape, Support Base Support Base								

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

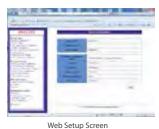
Many network devices (UPS, printers, routers, switches, etc.) generate SNMP TRAP messages when a failure occurs. The NHL tower can trigger a light and sound signal based on these SNMP TRAP messages to alert the administrator.



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.



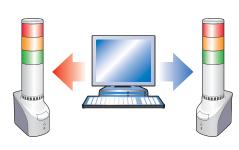
Communication Commands for many customized applications

RSH

Options

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 sound alarm

Event Occurence: Command Tier to light, alarm to sound. RSH Example Code: rsh 192.168.10.1 - I root alert 111001

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 v2c

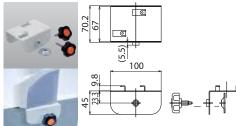
SNMP TRAP Transmission

Can transmit from a maximum of eight network devices.

Self-diagnosis



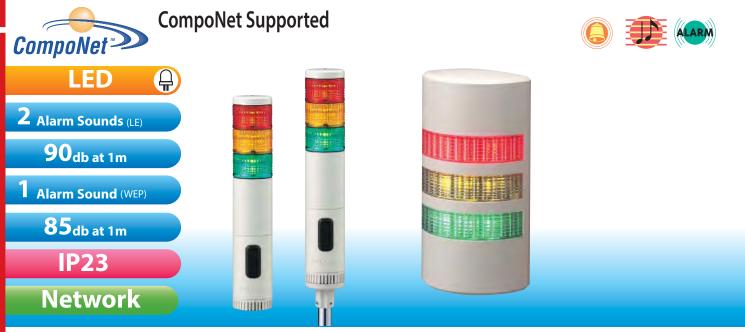
The test switch on the front of the Body can check the Signal Tower and alarm operation functions easily without it being controlled through the network.



Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

35

LE-K3/WEP-K3



DeviceNet Supported Signal Tower for Open-field Network

FEATURES

- Single cable uses CompoNet cable only, which transfers power and signals for control.
- · Easy connection directly to 64 linkable CompoNet units with DeviceNet cable, without I/O terminals.
- Requires a CompoNet controller (i.e. CompoNet Master).
- Address Data Storage setting with the internal DIP switch.
- Light Pattern is continuous only, no flashing available.
- Built-in alarm for B-type models such as; LE: 85dB at 1m (adjustable), WEP: 90dB at 1m.
- Sound Patterns available are; LE: Intermittent tone, Alarm 1: short beep, Alarm 2: long beep. WEP: 1 alarm, continuous tone only.
- Models include interchangeable modules*, no re-wiring necessary, even after installation (except for WEP type).

*Refer to the standard models for details.

DIRECT MOUNT

LE-K3W LE-K3BW POLE MOUNT LE-K3P LE-K3BP

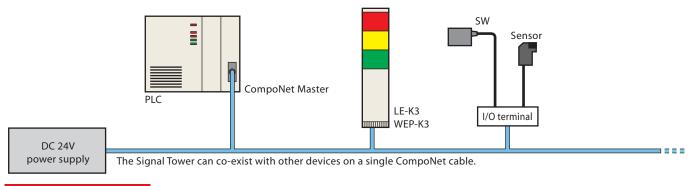
- PATLITE's exclusive Prism-Cut Lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Direct or pole mount installation.
- Main body is constructed of ABS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

WEP-K3 WEP-K3B

- Clear vertical-cut lens for enhanced illumination over a wide perspective.
- Installation can be vertical and horizontal (Alarm type must have buzzer installed face-down).
- Lens made of superior impact and heat resistant polycarbonate resin for superior durability and enhanced illumination.

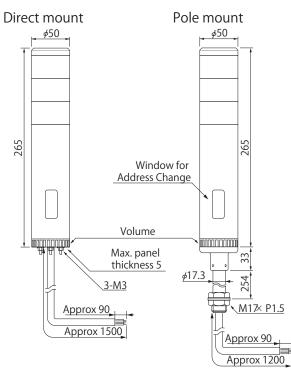


Application Example

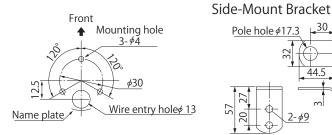


Dimensions

LE-K3

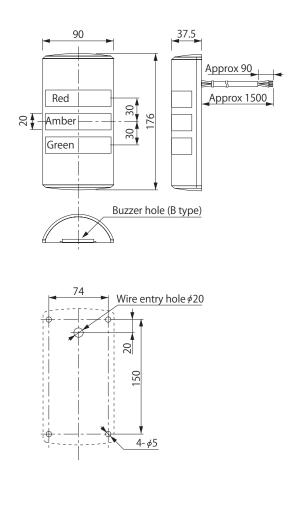


Mounting Dimension



Pole hole #17.3 t 44.5 m

WEP-K3



(Unit: mm)

Wire Color	Signal	
BROWN	BS+ (24VDC)	
BLACK	BS- (0V)	
WHITE	BDH (H) Line	
BLUE	BDL (L) Line	

	Stack		Audible	Signal					Current Consum	ption																															
Series	Number	Model	Alarm Option	Line	Power Line	CompoNet PCB (Max)	LED Unit (Max)	Audible Alarm																																
LE		LE-K3W/LE-K3P	N/A			60mA	25mA (Red, Amber) 20r	20	N/A																																
	- 3 Tiers	LE-K3BW/LE-K3BP	Available	BDH				20mA (Green)	40mA																																
WED	S Tiers WEP-K3 N/A BDL B WEP-K3B Available Available B	BS- (0V)	BS- (0V)	BS- (0V)		BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	BS- (0V)	OUTTA	30mA (Red, Amber)	25mA (Green)	N/A
WEP		WEP-K3B	Available				SUTTA (Red, ATTDET)	ZJIIA (Gleen)	40mA																																

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CC-Link supported Signal Tower for Open-field Network

FEATURES

- Single cable uses CompoNet cable only, which transfers power and signals for control.
- Easy connection directly to 64 linkable CompoNet units with DeviceNet cable, without I/O terminals.
- Requires a CompoNet controller (i.e. CompoNet Master).
- Address Data Storage setting with the internal DIP switch.
- Light Pattern is continuous only, no flashing available.
- Built-in alarm for B-type models such as; LHE: 90dB at 1m (adjustable), LE: 85dB at 1m (adjustable), WEP: 90dB at 1m.
- Sound Patterns available are; LHE / LE: Intermittent tone, Alarm 1: short beep, Alarm 2: long beep. WEP: 1 alarm, continuous tone only.
- Models include interchangeable modules*, no re-wiring necessary, even after installation (except for WEP type).

*Refer to the standard models for details.

LHE-C3 LHE-C3B

- Original LED reflection system to improve brightness and provide maintenance-free operation.
- Direct mount installation is standard; pole-mount is available with the optional mounting pole.
- Lens is made of superior impact and heat resistant AS resin for superior durability and light transmission.

DIRECT MOUNT

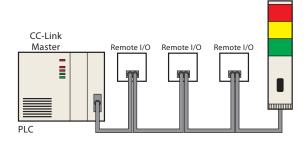
LE-C3W LE-C3BW POLE MOUNT LE-C3P LE-C3BP

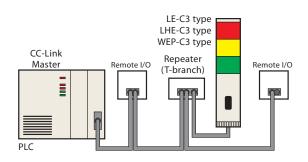
- PATLITE's exclusive Prism-Cut Lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Direct or pole mount installation.
- Main body is constructed of ABS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

WEP-C3 WEP-C3B

- Clear vertical-cut lens for enhanced illumination over a wide perspective.
- Installation can be vertical and horizontal (Alarm type must have buzzer installed face-down).
- Lens made of superior impact and heat resistant polycarbonate resin for superior durability and enhanced illumination.

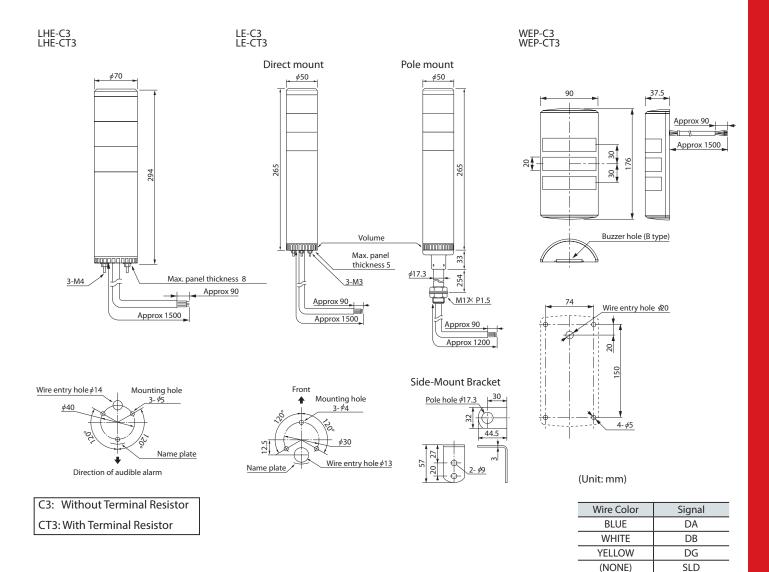
Application Example





CC-Link Signal Towers without Terminal Resistors can be branched via terminal blocks when Repeaters are not used.

Dimensions



<i>c</i> .	Stack		Audible	C: 11:	Current Consumption					
Series	Number	Model	Alarm Option	Signal Line	CC-Link PCB (Max)	LED Unit (Max)		Audible Alarm		
LHE		LHE-C(T)3	N/A				40	N/A		
LUC	LHE-C(T)3B Available			50mA (Red, Amber)	40mA (Green)	40mA				
LE	3 Tiers	LE-C(T)3W/LE-C(T)3P	N/A			50mA	Eam (Red Amber)	40mA (Green)	N/A	
	STIERS	LE-C(T)3BW/LE-C(T)3BP	Available	DA, B, DG, SDL	JUIIA	50mA (Red, Amber)	40mA (Green)	40mA		
WEP		WEP-C(T)3	N/A					20mA (Red Amber)	2EmA(Croop)	N/A
WEP		WEP-C(T)3B	Available			30mA (Red, Amber)	25mA (Green)	40mA		

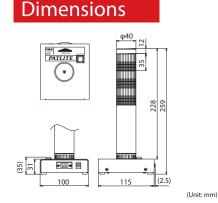


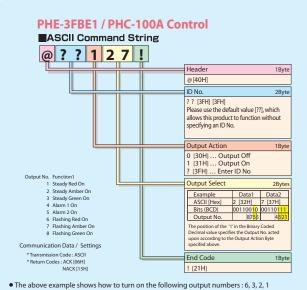
 This product requres the knowledge to program with ASCII commands to output through an RS-232C port.

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

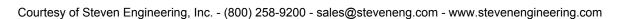
FEATURES

- 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.





1	Nodel	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		
Signal Tower	Flashing Rate	60 flashes per minute		
Specifications	Sound Level	Adjustable from 70dB to 85dB (at 1m)		
	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)		



PHC-100A

Interface Converter



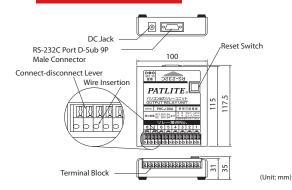
Network
Terminal

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

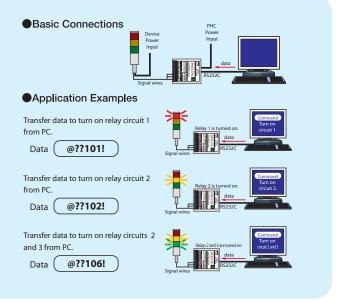
The PHC-100A Interface Converter can be connected to the RS-232C port on your programmed PC to control most PATLITE products, both visual and audible.

• 16 terminals provide 8 isolated non-voltage contact outputs.

• Reset pushbutton provided to reset all outputs to the off state.



Dimensions



Model		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	Output Load	AC 125V 3A / DC 30V 3A		
Terminal Buss	Capacity			
Specifications	Connector	Screwless Terminal		
	Applicable Wire Size	Solid Wire: AWG18 - 26 (0.4 - 1.2mm ²) Stranded Wire: AWG20 - 22 (0.3 - 0.75mm ²)		
	Dimensions (mm)	100(W) x 31(H) x 115(D)		
	Power Supply Source	AC Adaptor (Sold Separately)		
PHE Base	Power Consumption	4.0W		
Specifications	Operating Temperature Range	0°C to +40°C		
	Humidity	20 to 80% RH (No Condensation)		

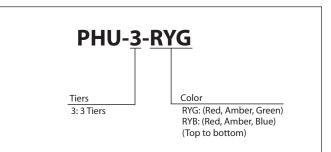


Signal Tower can be controlled directly by PC through the USB Port.

FEATURES

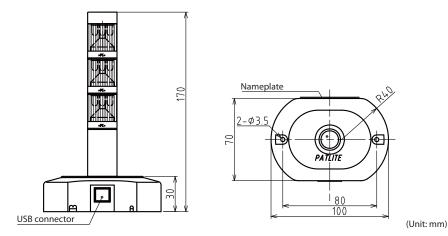
- Bright LED available as RYG or RYB three-tiered Signal Tower.
- PATLITE's original double reflection system with its exclusive hybrid prism-cut lens and 3 color LED modules create distinctive illumination that is bright and even.
- Power source supplied by USB Buss Power.

How to Order



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 tc	9 +55°C	
	Relative Ambient Temperature	RH 90% or less (No Condensation)		
	Electric Noise Intensity Level	VCCI Class-B Equivalent		
	Installation	Upright Position Only		
	Protection Rating	IP20		
Signal Tower	Insulation Resistance	More than 1M Ω at DC500V between the terminals and Chassis		
	Withstand Voltage	AC 500V applied for 1 minute between the terminals and chassis without breaking insu		
	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)		
esy of St	even Engineering, Inc (80	0) 258-9200 - sales@steveneng.com -	www.stevenengineering.com	

Dimensions



Logic Specifications	Action	Bit Data			
	"Red" Light On	0000 0001			
	"Amber" Light On	0000 0010			
	"Green" Light On	0000 0100			
	"Blue" Light On	0000 1000			
	"Red", "Amber" Light On; "Green", "Blue" Light Off	0000 0011			
	"Red", "Green" Light On; "Amber" , "Blue" Light Off	0000 0101			
	"Amber", "Green" Light On; "Red", "Blue" Light Off	0000 0110			
	"Amber", "Blue" Light On; "Red", "Green" Light Off	0000 1010			
	"Red", "Amber", "Green", "Blue" Light On	0000 111			
	"Red", "Amber", "Green", "Blue" Light Off	0000 0000			
Transfer Mode	Bulk Transfer				
Data Error Detection Criteria	CPC (Cualia Daduadan au Chaalu)				
Jala Error Delection Chiena	CRC (Cyclic Redundancy Check)				
Packet Commands	Token Packet (SOF. SETUP, OUT, IN)				
Packet Commands	Token Packet (SOF, SETUP, OUT, IN) Data Packet				
Packet Commands					
	Data Packet Handshake Packet				
Transmission Setting (Virtual COM)	Data Packet				
Transmission Setting (Virtual COM) Bit Rate : 19,200bps	Data Packet Handshake Packet	0 1			
Transmission Setting (Virtual COM) Bit Rate : 19,200bps Data Length : 8 bits	Data Packet Handshake Packet HEX 0 5 Binary 0 0 0 0 1	0 			
Transmission Setting (Virtual COM) Bit Rate : 19,200bps Data Length : 8 bits Parity : None	Data Packet Handshake Packet HEX 0 5	0 1			
Transmission Setting (Virtual COM)Bit Rate:19,200bpsData Length:8 bitsParity:NoneStop Bit:1 bit	Data Packet Handshake Packet HEX 0 5 Binary 0 0 0 0 1	0 1			
Transmission Setting (Virtual COM) Bit Rate : 19,200bps Data Length : 8 bits Parity : None	Data Packet Handshake Packet HEX 0 5 Binary 0 0 0 0 1	0 1			
Transmission Setting (Virtual COM)Bit Rate:19,200bpsData Length:8 bitsParity:NoneStop Bit:1 bit	Data Packet Handshake Packet HEX 0 5 Binary 0 0 0 0 0 1 Not Used Blue LED 0: Off /1: On	0 1			
Transmission Setting (Virtual COM)Bit Rate:19,200bpsData Length:8 bitsParity:NoneStop Bit:1 bit	Data Packet Handshake Packet HEX 0 5 Binary 0 0 0 0 0 1 Not Used Blue LED 0: Off /1: On	0 1			
Transmission Setting (Virtual COM)Bit Rate:19,200bpsData Length:8 bitsParity:NoneStop Bit:1 bit	Data Packet Handshake Packet HEX 0 5 Binary 0 0 0 0 0 1 Not Used Blue LED 0: Off /1: On	0 1			
Transmission Setting (Virtual COM)Bit Rate:19,200bpsData Length:8 bitsParity:NoneStop Bit:1 bit	Data Packet Handshake Packet HEX 0 5 Binary 0 0 0 0 0 1 Not Used Blue LED 0: Off /1: On	0 1			

*1 Drivers for Windows OS may have to be installed prior to use. Refer to the Instruction Manual on how to get the latest downloads.

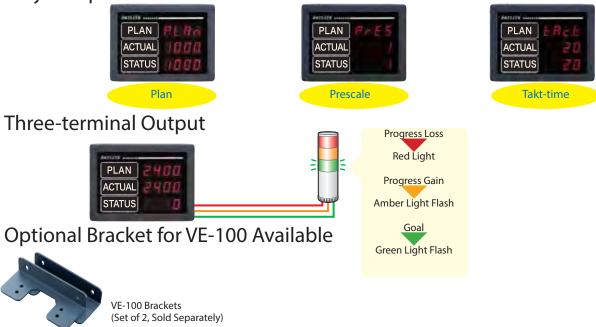
*2 This product does not include a Flashing function but it can be controlled by programming it through the USB output.

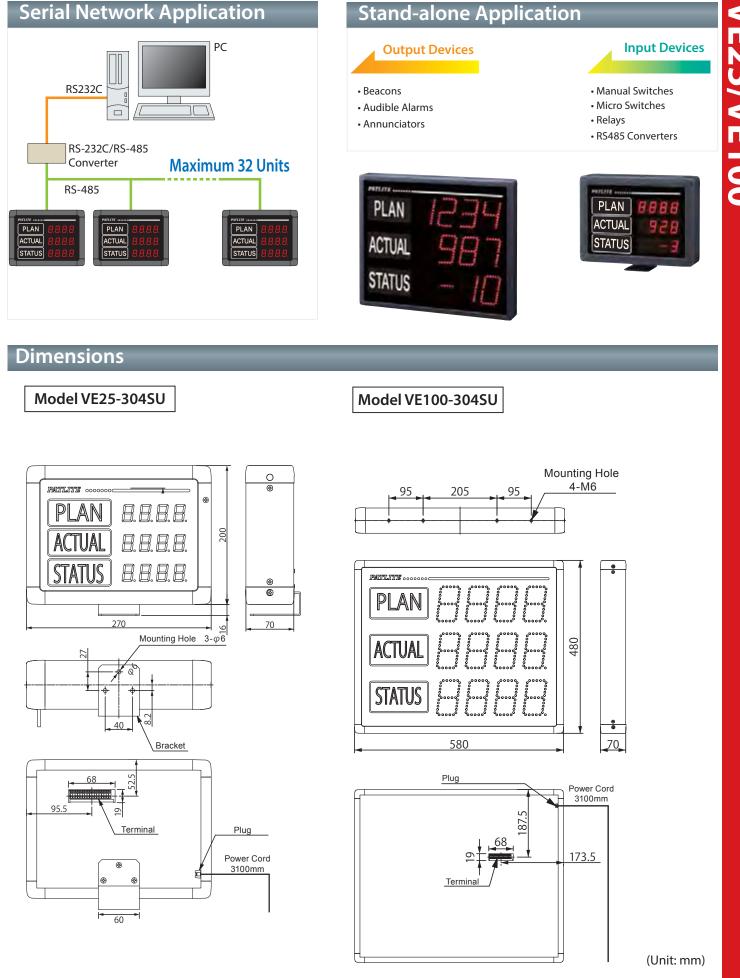
*3 The control commands for the Green LED and Blue LED for the PHU-3-RYG and PHU-3-RYB are controlled seperately.

- This Unit is designed to be controlled by one computer, improper operation may occur with two or more units connected.



- 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





VE25/VE100

MEMO

For more details, visit our website at http://www.patlite.com

Explosion-Safe Products



EDLM / EDWM

Explosion-Safe Signal Tower



Wall Mount



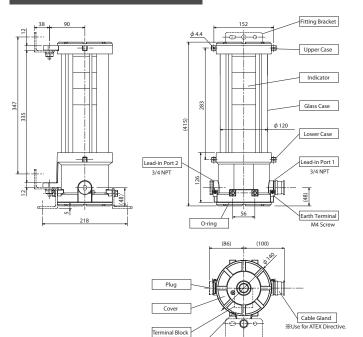
Innovative maintenance-free Explosion-safe LED Signal Towers with pressure and flame-proof housing, ideal for potentially flammable and hazardously explosive environments.

CENELEC (ATEX Directive	2)						
Туре	EDLM-302FE	EDLM-312FE	EDLM-323FE	EDWM-502FE	EDWM-5M2FE		
Rated Voltage	AC/DC24V	AC 120V	AC 230V	AC/DC 24V	AC 90V - 250V		
Signal Line Current (Per LED)	Red/Amb	Red/Amber: 52.5mA Green: 20.0mA Red: 22.6mA Amber: 26.6mA Green: 17.5mA Blue/White: 38.9m					
Explosion Protection Ratings		🐼 ll2G Ex d llC T6 (Zone 1,2) 🛛 🐼 ll2D EX tD A21 lP66 T80°C (Zone 21, 22)					
Operating Temperature Range		-20°C - +50°C (no ice)					
Operating Humidity Range			45% - 85% RH	(No dew or condensation)			
Ambient Pressure Range				80 - 110kpa			
Lighting Pattern		Flash	ning (60 ±12 flashe	s per minute) / Continuous Lighti	ng		
Protection rating				IP66			
Vibration Reistance				9.8m/s ²			
Mounting	Out	door & Indoor: Up	right	Outdoor & Indoor: U	pright and Sideways		
Luminosity	Red: 350mcd	Amber: 580mcd (Green: 1300mcd	Red/ Amber/ Green: 1000	mcd Blue/White: 300mcd		
Mass (Main Body)		4.3kg		4.7	'kg		
Material		Upper/Lower Housing: Aluminum Alloy (Melamine Baked Finish) Glass Case: Borosilicate Glass Fitting Bracket: Stainless Steel (SUS316) Cable Gland: Brass					
CENELEC (ATEX Directive				1			
Туре	EDLM-302FA	EDLM-312FA	EDLM-323FA	EDWM-502FA	EDWM-5M2FA		
Rated Voltage	AC/DC24V	AC 120V	AC 230V	AC/DC 24V	AC 90V - 250V		
Signal Line Current (Per LED)	Red/Amb	er: 52.5mA Gree		Red: 22.6mA Amber: 26.6mA Gr			
Explosion Protection Ratings		🔛 ll2G Ex c		😣 II2D EX tD A21 IP66 T80°C (Zo	one 21, 22)		
Operating Temperature Range				C - +50ºC (no ice)			
Operating Humidity Range			45% - 85% R⊦	(No dew or condensation)			
Ambient Pressure Range				80 - 110kpa			
Lighting Pattern		Flash	ing (60 ±12 flashe	s per minute) / Continuous Lighti	ng		
Protection rating				IP66			
Vibration Reistance				9.8m/s ²			
Mounting		door & Indoor: Up	5		pright and Sideways		
Luminosity	Red: 350mcd	Amber: 580mcd C	Green: 1300mcd	Red/ Amber/ Green: 1000	mcd Blue/White: 300mcd		
Mass (Main Body)		4.3kg			'kg		
Material		Upper/l	Glass Ca Fitting Bracke	uminum Alloy (Melamine Baked F ase: Borosilicate Glass et: Stainless Steel (SUS316) ble Gland: Brass	inish)		

EDLM & EDWM are covered by the specifications shown in the shaded areas below:

Common Standard	Common Standards for Europe • The ATEX directive is a CENELEC Standard					
Classification Standard		PATLITE Models	Constant Exposure	Occasional Exposure	Rare & Temporary	
ATEX, IEC/EU Directive 94/9/EC	IEC 60079-10 EN 60079-10	EDLM, EDWM	Zone 0	Zone 1	Zone 2	
Common Standard	s for the USA		• NEC is a National Electr	ical Code Standard for Nort	th America	
Classification	Standard	PATLITE Models	Constant Exposure	Occasional Exposure	Rare & Temporary	
NEC Article 505	ANSI/NFPA 71	EDLM, EDWM	Zone 0	Zone 1	Zone 2	
NEC Article 500	ANSI/NFPA 70	_	Divis	ion 1	Division 2	

Dimensions

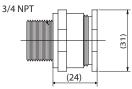


Set Screw



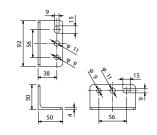
218





*ATEX Model ... Included *NEC Model Not Included

Flush-mount Bracket



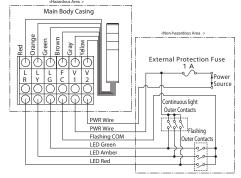
(Unit: mm)

LM/EDWM

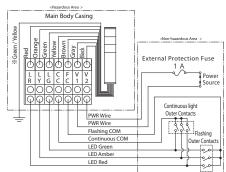
Wiring

EDLM (3 Color LED)

· EDLM-302FE/ EDLM-302FA

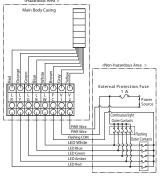


EDLM-312FE/ EDLM-312FA EDLM-323FE/ EDLM-323FA

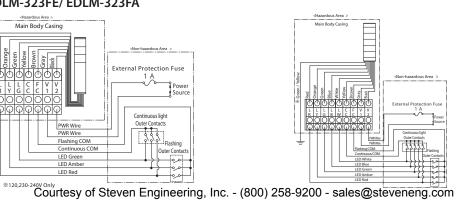


EDWM (5 Color LED)

EDWM-502FE/ EDWM-502FA



EDWM-5M2FE/ EDWM-5M2FA



AR-070 II 3GD Ex nA IIC T4 Gc, Ex tc IIIC T85°C Dc IP65 9



Explosion-Safe Signal Tower





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



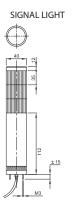


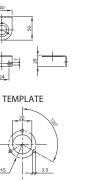
Side-mount Bracket

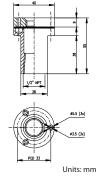
Explosion-Safe Signal Tower ϕ 40mm with sealed cable

SIDE MOUNT BRACKET

Dimensions







1/2" NPT ADAPTER TYPE

Specifications

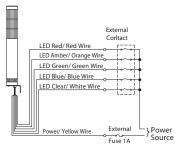
1/2" NPT *1/2 NPT Adaptor also available

-				
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			

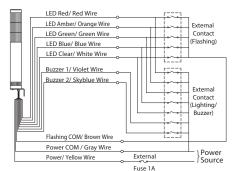
CURRENT RATINGS						
LED BUZZER						
Signal	Line Current	Signal Line Current	Inruch Curront			
Red, Amber Green, Blue, Clear		Signal Line Current	Infusit Current			
ab. 30mA ab. 25mA		ab. 40mA	ab. 250mA			

Wiring

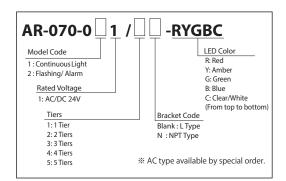
Lighting AC/DC 24V



Lighting/Flashing/Alarm AC/DC 24V



How to Order

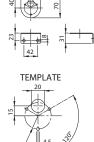




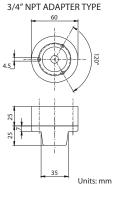
Explosion-Safe Signal Tower φ60mm with sealed cable

Dimensions





SIDE MOUNT BRACKET

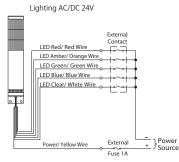


Specifications

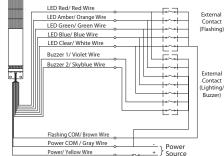
-	
Explosion-safety	CE Ex II3 GD; Ex nA IIC T4 Gc: Ex tc IIIC T85°C Dc IP65
CE Conformities	EN 60079-0, EN 60079-15, EN 60079-31
Certification	EC Declaration of Conformity
Ambient Temperature	-30°C - +60°C
Ingress Protection	IP65 to EN 60529
Material	ABS Tower Body
Lighting Source	Multiple LED's with 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	R			
Signal	Line Current	Signal Line Current	Inruch Curront			
Red, Amber	Green, Blue, Clear	Signal Line Current	Infusit Current			
ab. 30mA ab. 25mA		ab. 40mA	ab. 250mA			

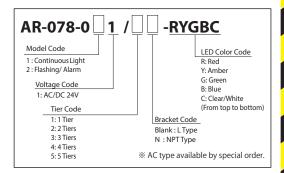
Wiring



Lighting/Flashing/Alarm AC/DC 24V



How to Order







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

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

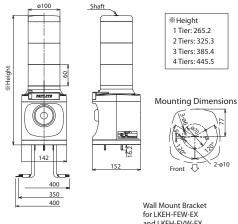
CE

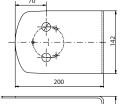
32 Channels (Binary)

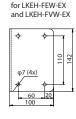
105db at 1m

Explosion-Safe

63 Seconds

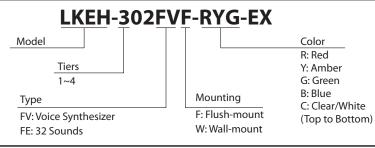






(Unit: mm)

How to Order



Model	MP3	Power	SD Card (SDV-128) for models
LKEH-FEF-EX/LKEH-FEW-EX	—	14.2W	LKEH-FVF-EX and LKEH-FVW-EX
LKEH-FVF-EX/LKEH-FVW-EX	Supports	14.2W	is sold separately.

Sound Selection Chart

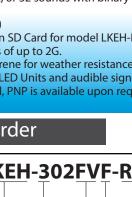
Beep (slow intermittent)	Stutter + Bell	Inverted Reveille	Annie Laurie
Stutter (rapid intermittent)	Melody Chime	Galactic Motor	London Bridge is falling down
Bell (clear high-pitch)	Chime	Ringing Phone	Mary had a little Lamb
Yelp (rapid siren)	Call Sign	Two Tone	Camptown Races
Rapid Hi-Lo	Rapid Hi-Lo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

Specifications

52

Model	Rated Voltage	MP3, Melody	Operating Temperature Range	Recordable Duration	Mounting Brackets	Channels	Mass					
LKEH-FEF-EX		Type-E	1	-10°C to +50°C					Pre-recorded	Flush-mount	8ch bit input, 32ch binary input	2.8kg
LKEH-FEW-EX	DC 24V	Type-E			Pre-recorded	Wall-mount	8ch bit input, 32ch binary input	3.2kg				
LKEH-FVF-EX	DC 24V	MPEG1-Audio Layer III, 64kbit/s		(2 accorde	Flush-mount	5ch bit input, 32ch binary input	2.8kg					
LKEH-FVW-EX		MPEG1-Audio Layer III, 64kbit/s		63 seconds	Wall-mount	5ch bit input, 32ch binary input	3.2kg					

The mass is based on a 3-tiered LED Model LKEH. The mass will change in accordance to the number of tiers.
 Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com





LKEH-FV-EX, LKEH-FE-EX



EHS-EX/EHV-EX

CE 😔 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 Melody/Alarm Horn



IP65

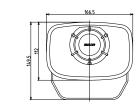
Explosion-Safe

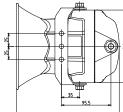
EHS-EX/-E

FEATURES

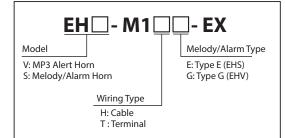
- Protection Rating of IP65.
- Explosion-Safe for gas and dust
- Suitable for Zone 2 and Zone 22
- CE Compliance in accordance to ATEX
- EHS-EX comes with 32 preloaded melody and alarm sounds with adjustable volume up to 110dB (@ 1m).
- Robust, indoor and outdoor use with vibration resistance up to 4.5G.
- EHV-EX comes with 63 preloaded crisp and clear melody and alarm sounds with adjustable volume up to 110dB (@ 1m).
- EHV-EX offers a field-programmable MP3 function with a maximum of 220 sec. of recording time (@ 64bps) and an adjustable volume up to 105dB (@ 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).

Dimensions



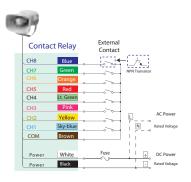


How to Order

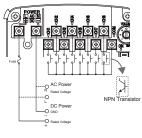


Wiring

Non-voltage (NPN) Wiring



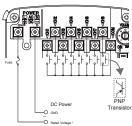
• Terminal (NPN)



• PNP Wiring

ł	Q							
		Conta	ct Relay		External Contact			
		CH8	Blue			-174	1	
		CH7	Green			PNP Trans	istor	
		CH6	Orange					
		CH5	Red					
		CH4	Lt. Green					
		CH3	Pink		~			
		CH2	Yellow					
		CH1	Sky-blue	0				
		сом	Brown		Insulate			
		Power	White		Fuse		+	DC Power
		Power	Black		~		Ξ.	Rated Voltag

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	DC 12 - 24V	DC 10.8V to 26.4V	4W (at DC24V)	450mA (max)	Alarm: 110dB (at 1m)	-20°C to +50°C	Bit Input: 8	IP65	Cable	1.25kg
EHS- M1T	DC 12 - 24V	7 DC 10.8V to 26.4V 4W (at DC24V) 450mA (max) Alarm: 110de	Aldrin: TTOUB (at Thi)	(Less than 85% RH)	Binary Input: 32	1602	Terminal	1.25ку		
EHV- M1H	DC 12 - 24V	DC 10.8V to 26.4V	4W (at DC24V)	400mA (max)	Alarm: 110dB (at 1m)	-20°C to +50°C	Bit Input: 8	IP65	Cable	1.25kg
EHV- M1T	DC 12 - 24V	DC 10.8V t0 20.4V	400 (at DC240)	400mA (max)	MP3: 105dB (at 1m)	(Less than 85% RH)	Binary Input: 63	1000	Terminal	т.25ку

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.

Note 2: Even when starting two or more units simultaneously, a lag will occur during message playback.



* Rear-mount Hole t______ (2-M5, Pitch: 16)

Tilt-bracket (2-M5, P

Specifications

Pan-bracket

(4-M6, Pitch: 45)

CLN-24-CD-PT-EX		
CD (Daylight)		
6500K		
820 lx		
550 lm		
DC 24V (Polarized)		
DC 24V ±10%		
174mA ±10% / 4.2W		
-40°C to +60°C (90% RH, no condensation)		
Body: Aluminum Alloy Lens: Tempered Glass		
IP66G/67G (JIS C 0920)/69K (DIN 40050 part 9) (excluding cable ends)		
Indoor / Any Direction		
DC 500V 5M Ω or more between power input and metallic part		
500VAC for 1 minute between power input and chassis		
30Hz total amplitude 0.3mm ^{p-p} (Back and forth, up and down, left and right for 2 hrs each) total amplitude 0.3mm ^{p-p} (10-57Hz), Acceleration 19.6m/s ²		
430g		



Specifications

CLK- [_] [_] -24- [_] [_] - [EX
Natural White (CN) / Daylight (CD)
DC 24V
DC 24V ±10%
522mA ±40mA (3S / 3C Type)
High intensity LED x 18 elements (3S / 3C Type)
1200 (3S / 3C Type)
Body: Aluminum Alloy or Stainless Steel Lens: Tempered Glass
-40°C to +60°C (90% RH, no condensation)
Indoor / Any Direction
IP66G/67G (JIS C 0920)/69K (DIN 40050 part 9) (excluding cable ends)
19.6m/s ²
1.49kg

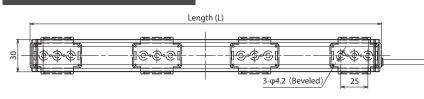


600mm (650 lx), 900mm (810 lx), 1,200mm (890 lx), 1,500mm (945 lx)

(Unit: mm)

• Temperature Range of -40°C to +60°C (RH 90% or less, no condensation)

Dimensions



How to Order



Model	Luminous Color	Length	Rated Voltage	Rated Current Consumption	Center Radiation (lx/50cm)	Mounting Direction	Vibration Resistance	Mass								
CLA1S -24-CD-EX	Daylight	100mm		104mA	140 lx			80g								
CLA1S -24-CN-EX	Natural White	TUUMIM		TU4MA	140 IX			oug								
CLA2S -24-CD-EX	Daylight	200mm	I	208mA	270 14	I		120-								
CLA2S -24-CN-EX	Natural White	200mm		208mA	270 lx			130g								
CLA3S -24-CD-EX	Daylight	300mm	l	240mA	400 lx	I		100 -								
CLA3S -24-CN-EX	Natural White	300mm		240MA	400 IX			180g								
CLA6S -24-CD-EX	Daylight	C00mmm	DC 24V	400	650 lx	Any Direction	19.6m/s^2	240 **								
CLA6S -24-CN-EX	Natural White	600mm	00011111	ooonnin	00011111	00011111	00011111	00011111	00011111	00011111	(Polarized)	480mA	XI UCO	(Indoors Only)	19.607/5	340g
CLA9S -24-CD-EX	Daylight	900mm		720mA	810 lx	I		500g								
CLA9S -24-CN-EX	Natural White	90011111		720MA	0101X			500g								
CLA12S -24-CD-EX	Daylight	1200mm		960mA	890 lx	I		(())								
CLA12S -24-CN-EX	Natural White	1200mm			890 IX			660g								
CLA15S -24-CD-EX	Daylight	1500		1 200 4	045 br	I		020-								
CLA15S -24-CN-EX	Natural White	1500mm		1,200mA	945 lx			820g								





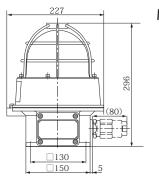
Robust Heavy Duty Revolving Warning Light.

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



Mounting Dimensions

Mounting Hole 4- ø9

130 (Unit: mm)

Specifications

Madal	Data d Valta e a			Bu	ılb		
Model	Rated Voltage	Current	Current Flash Rate (fpm)		Repl. No.	Mass	
C RES-12A	DC 12V	0.9A	0.9A		9		
O RES-24A	DC 24V	0.5A	170	24V 10W	10		
C RES-48A	DC 48V	0.3A	150	48V 10W	11		
RES-100A	AC 100V - 110V	0.1A				6.5kg	
© RES-120A	AC 115V - 120V	0.14	170	12V 5W	12		
RES-220A	AC 200 - 220V	0.05A	170	120 300	12		
© RES-240A	AC 230 - 240V	0.05A					



: G18 BA155 © Special Order Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com Bulb: G18 BA15S

For more details, visit our website at http://www.patlite.com

Signal Tower



ME-A/M Signal Towe		
ROHS CE W		
IP42 Ø25 NPN Open-collector		
	MES-A	ME-A

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

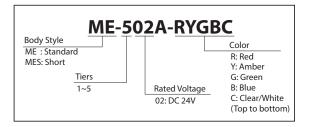
FEATURES

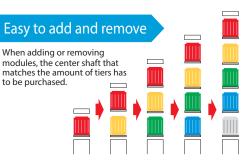
- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Lens is made of superior impact and heat resistant polycarbonate resin for superior durability and light transmission.
- Available Colors are in Red, Amber, Green, Blue, and Clear/White.
- 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)

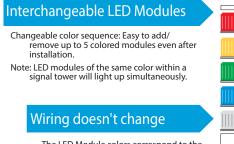
AVAILABLE BY SPECIAL ORDER

- Cable: Versatile and flexible 3m cable. •
- · IP54 (for ME/MES).
- PNP Compatible: ME and MES 24V Types.

How to Order

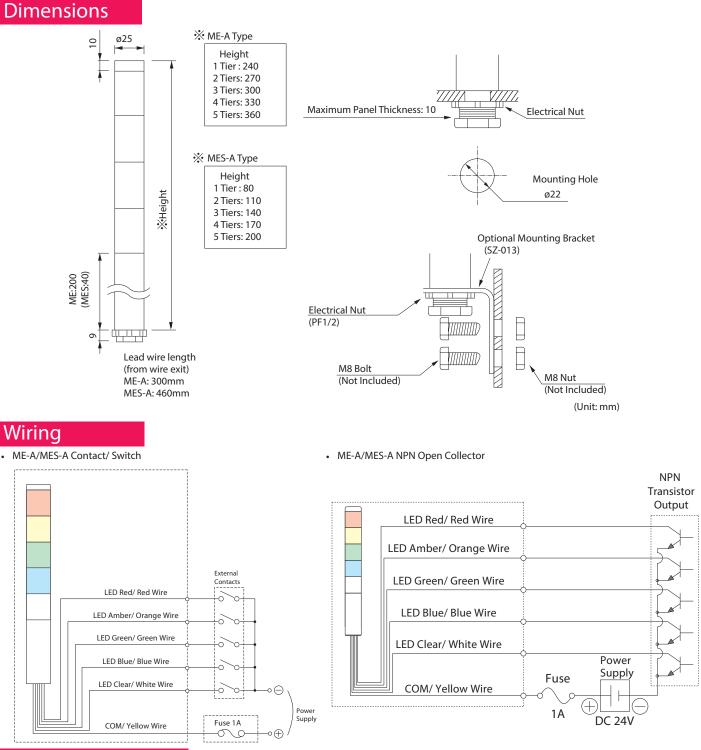






The LED Module colors correspond to the wiring, so re-wiring is not necessary.





Specifications

Stack	Model	Rated	Power	Ma	ass
Number	iber Model Voltage C		Consumption	ME	MES
	ME/MES-102A-R		0.6W		
	ME/MES-102A-Y		0.6W		
1 Tier	ME/MES-102A-G		0.5W	220g	120g
	ME/MES-102A-B		0.5W		
	ME/MES-102A-C		0.5W		
	ME/MES-202A-RY		1.2W	230g	130g
2 Tiers	ME/MES-202A-RG		1.1W		
	ME/MES-202A-RB	DC 24V	1.1W		
	ME/MES-202A-RC		1.1W		
	ME/MES-302A-RYG		1.7W		
3 Tiers	ME/MES-302A-RYB		1.7W	240g	140g
	ME/MES-302A-RYC		1.7W		
4 Tiers	ME/MES-402A-RYGB		2.3W	250-	150g
4 Hers	ME/MES-402A-RYGC		2.3W	250g	1509
5 Tiers	ME/MES-502A-RYGBC		2.8W	260g	160g

Signal Tower Rohs (E FL LED Ĥ P65 **Ø**30 Cable B NPN/PNP **Open-collector** MPS MP

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

Patented reflection system increases visibility



FEATURES

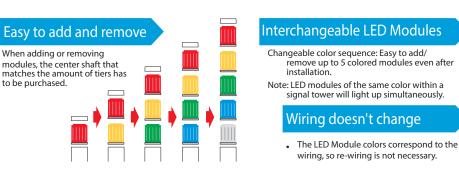
When adding or removing

to be purchased.

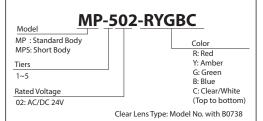
- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Double-insulated construction for enhanced durability and safety in the work environment.
- Direct mount installation with just a single hole.
- Interchangeable Modules need no re-wiring, even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



Optional MP-B Buzzer (See pg. 199)



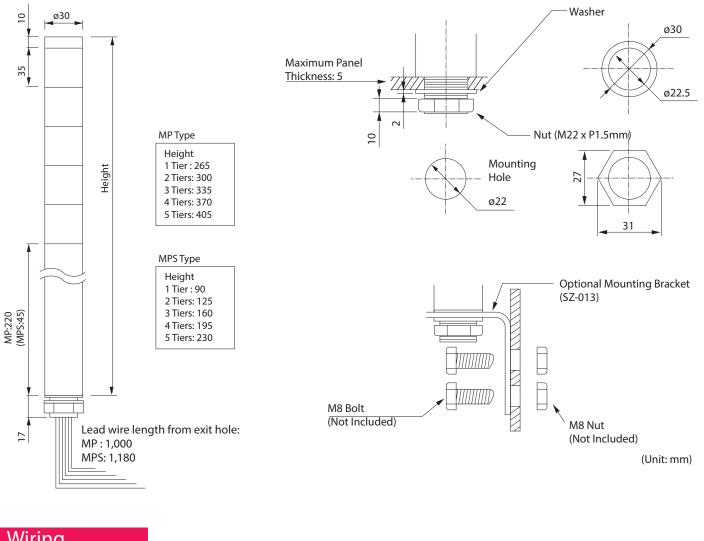
How to Order



Specifications

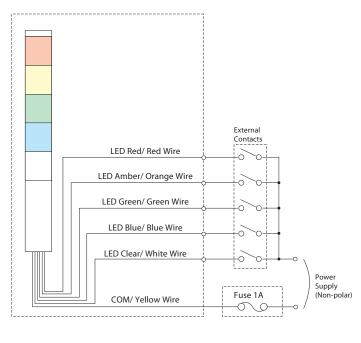
Stack			Power	Mass	
Number	Model	naleu voltage	Consumption	MP	MPS
1 Tier	MP/MPS-102		0.7W	210g	110g
2 Tiers	MP/MPS-202		1.4W	230g	130g
3 Tiers	MP/MPS-302	AC/DC 24V	2.0W	250g	150g
4 Tiers	MP/MPS-402		2.6W	270g	170g
5 Tiers	MP/MPS-502		3.2W	290g	190g

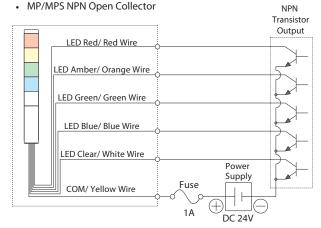
Dimensions



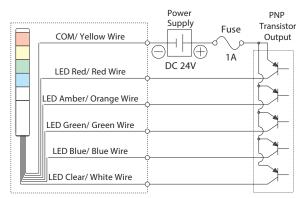
Wiring

MP/MPS Contact/ Switch





• MP/MPS PNP Open Collector



MP/MPS



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

Patented reflection system increases visibility.

High-intensity	Good visibility from any directior

FEATURES

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Whe

mod

mate

to be

- 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. 199)

sy to add and rem	ove		
en adding or removing dules, the center shaft that ches the amount of tiers has			
e purchased.	Ш		
+ #	• 📇 י	ا <mark>س</mark> (ا

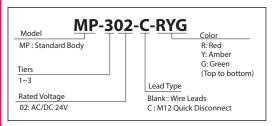
Interchangeable LED Modules Changeable color sequence: Easy to add/ remove up to 5 colored modules even after

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

Wiring doesn't change

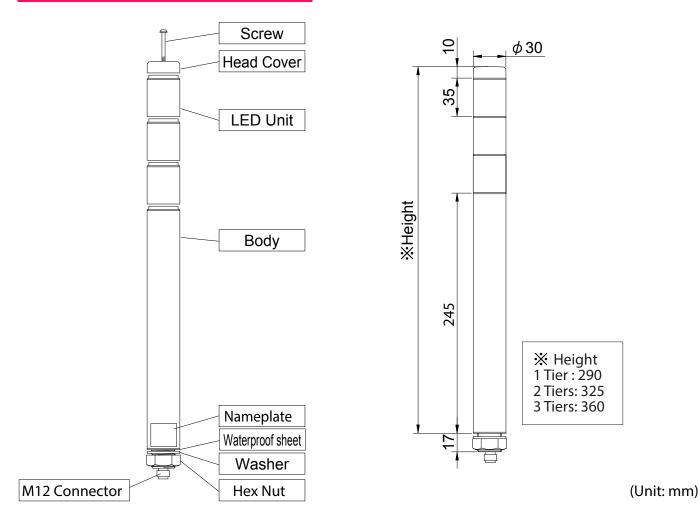
• The LED Module colors correspond to the wiring, so re-wiring is not necessary.

How to Order



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

Part Names and Dimensions



External Contact Capacity		I _s : Current Capacity		V _s : Withstand Voltage	
	Current Consumption	Red: 29.0mA Amber: 29.5mA		Green: 23.9mA	
LED Unit (1 Tier)	Capacity	l₅≥50mA		V₅≥35V DC	
Dowor Supply	Current Consumption	200mA			
Power Supply	Capacity	I₅≥200mA		V _s ≥35V DC	

M12 Connector Pin No.

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

• MP-C M12 Connector











djustable Volume Max. 85dB at 1m

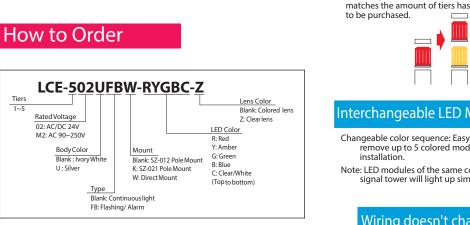


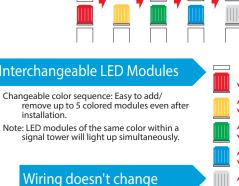
PATLITE's original dual reflection system with its exclusive hybrid prismcut lens and 5 color LED modules creates a bright, distinctive and even illumination.

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

FEATURES

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

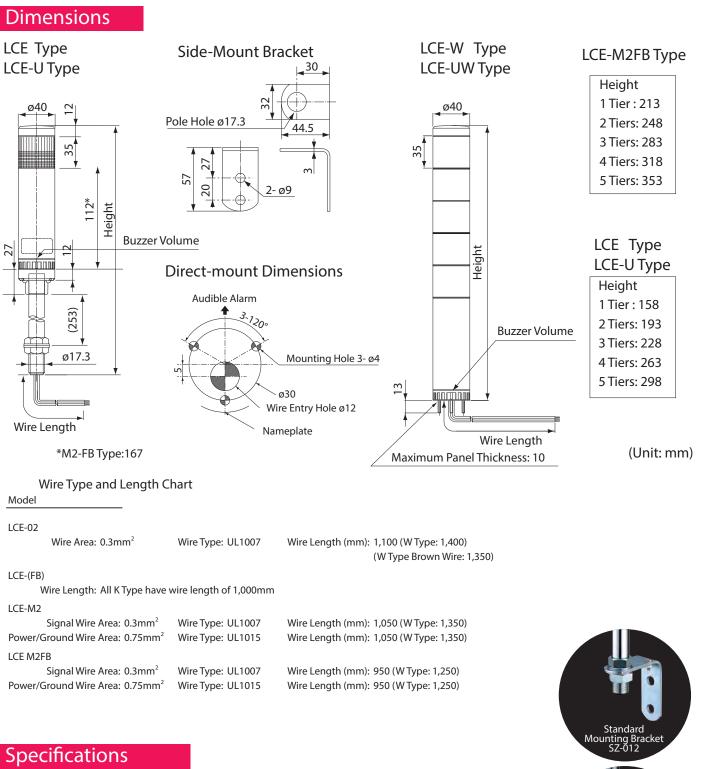




Easy to add and remove

When adding or removing modules, the center shaft that

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



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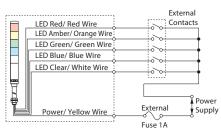
Stack	Model	Rated Voltage	Power Mass				
Number	Model	Rateu voltage	Consumption	LCE	LCE-W	LCE-FB	LCE-FBW
1 Tier	LCE-102(U)	AC/DC 24V	1.7W	520g	160g	580g	220g
The	LCE-1M2	AC 90 -250V	1.9W	600g	240g	650g	290g
2 Tiers	LCE-202(U)	AC/DC 24V	2.4W	550g	190g	610g	250g
ZTIEIS	LCE-2M2	AC 90 -250V	2.6W	630g	270g	680g	320g
3 Tiers	LCE-302(U)	AC/DC 24V	3.0W	580g	220g	640g	280g
STIELS	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
C Tions	LCE-502(U)	AC/DC 24V	4.2W	640g	280g	700g	340g
5 Tiers	LCE-5M2	AC 90 -250V	4.4W	720g	360g	770g	410g

Mounting Bracket

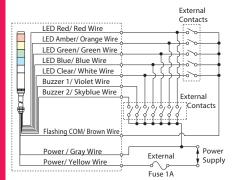
Optional Mounting Bracke CE/LCE-U

Wiring

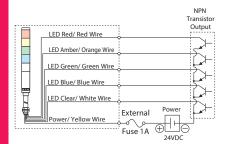
AC/DC 24V Lighting Type



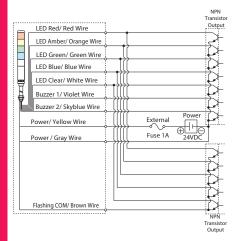
AC/DC 24V Lighting/Flashing Type



• DC 24V NPN Type



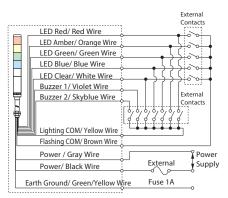
DC 24V NPN FB Type



• AC 90 - 250V Lighting Type

F		LED Red/ Red Wire	External Contacts
	- 1	LED Amber/ Orange Wire	
		LED Green/ Green Wire	
-		LED Blue/ Blue Wire	
	11	LED Clear/ White Wire	
Ę	7	COM/ Yellow Wire	
		Power / Gray Wire	Power
		Power/ Black Wire	External Supply
	Earl	th Ground/Green/Yellow Wire	Fuse 1A

• AC 90 - 250V Lighting/Flashing Type

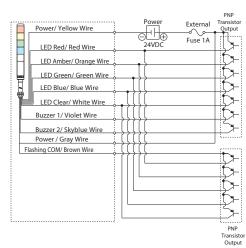


DC 24V PNP Type

A	LED Red/ Red Wire	Power	External
	LED Amber/ Orange Wire LED Green/ Green Wire	24VDC	Fuse 1A
	LED Blue/ Blue Wire		
Ē	LED Clear/ White Wire		
E	Power/ Yellow Wire		PNP

Output

• DC 24V PNP FB Type

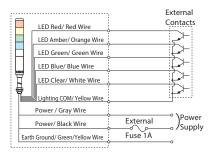


Lead-wire color coordination table

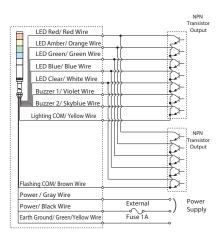
LED Unit Color	Lead Wire Color		
Red	Red		
Amber	Orange		
Green	Green		
Blue	Blue		
Clear/White	White		

Alarm Sounds	Lead Wire Color	
Buzzer 1	Purple	
Buzzer 2	Skyblue	

AC 90 - 250V NPN Type



• AC 90 - 250V NPN FB Type



Signal Line voltage and current per LED Module

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



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



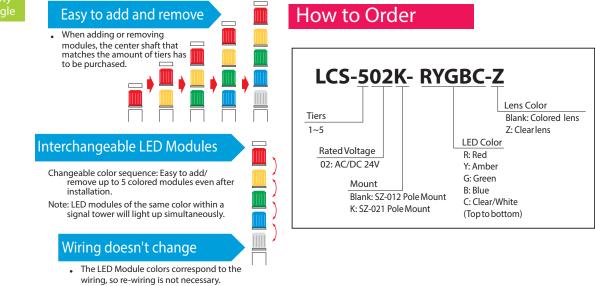


FEATURES

- 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 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.
- 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).

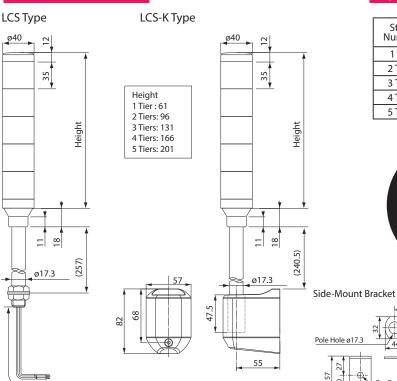
AVAILABLE BY SPECIAL ORDER

- 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



Dimensions





Specifications

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



1.30

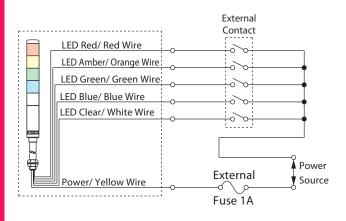
ø9



Wiring

Wire Exit: about 1,150

• AC/DC 24V Lighting Type



Lead-wire color coordination table

(Unit: mm)

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

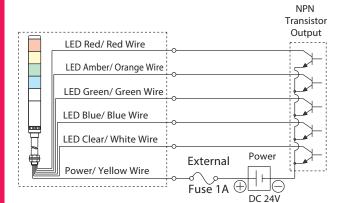
Alarm Sounds	Lead Wire Color		
Buzzer 1	Purple		
Buzzer 2	Skyblue		

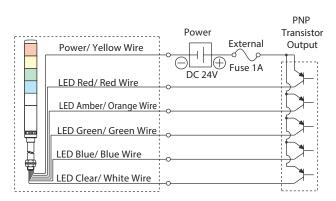
DC 24V PNP Type

Signal Line voltage and current per LED Module

			LE	D	Alarm	
Model	Voltage		orginal Enre canter		Signal Inrush	
Type Voltag	Voltage	R, Y	G, B, C	Line Current	Current	
LCS	AC/DC 24V	AC/DC 24V	30mA	25mA	40mA	250mA

• DC 24V NPN Type







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





le System PATLITE's original dual

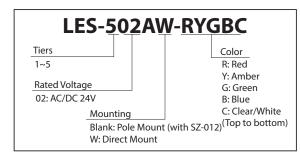
reflection system with its exclusive hybrid prismcut lens and 5 color LED modules creates a bright, distinctive and even illumination.

FEATURES

PATLITE's exclusive Prism-Cut Lens designed for enhanced visibility from any direction and distance.

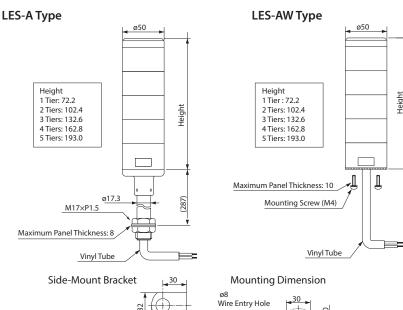
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Direct or pole mount installation.
- Main body is constructed of ABS resin with superior resistance to impact and heat.
- Lens is made of superior impact resistant and light 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.

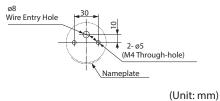
How to Order



Specifications

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



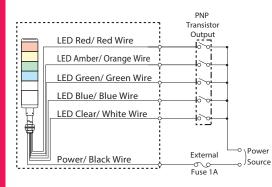


Height

LES Model

• AC/DC 24V Lighting Type

5 20



Signal Line Voltage

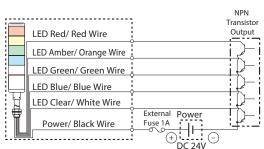
AC/DC 24V

Pole Hole ø17.

44.5

2-ø9

• DC 24V NPN Type



DC 24V PNP Type

		Power	External	PNP Transistor
	Power/ Black Wire	DC 24V	Fuse 1A	Output
	LED Red/ Red Wire	$\bigcirc \vdots \downarrow \vdots \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc $		
	LED Amber/ Orange Wire			<u>i</u> D-l
il-	LED Green/ Green Wire			[D-!
Ĭ	LED Blue/ Blue Wire			<u>ID-</u> I
Ĩ	LED Clear/ White Wire			\rightarrow
	<u></u>			L'

Standard Mounting Bracket SZ-012



В

22mA





Lead-wire color coordination table LED Unit Color Lead Wire Color Т

	Lead Thie color	
Red	Red	
Amber	Orange	
Green	Green	
Blue	Blue	
Clear/White	White	

		LED Red/ Red Wire		-
		LED Amber/ Orange Wire		i
		LED Green/ Green Wire		i
		LED Blue/ Blue Wire		ł
	H	LED Clear/ White Wire		ł
	Ĩ	Power/ Black Wire	External Power Fuse 1A	:
1			+ DC 24V	

Signal Line voltage and current per LED Module

R, Y

25mA

LED

Signal Line Current

G, C

20mA

Model

LES

Voltage Type

AC/DC 24V

Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Alarm

Inrush Current

150mA

Signal Line Current

40mA





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





Dual Reflection

PATLITE's original dual reflection system with its exclusive hybrid prismcut lens and 5 color LED modules creates a bright, distinctive

When adding or removing Changeable color sequence: Easy to add/ remove up to 5 colored modules even after modules, the center shaft that installation. and even illumination. matches the amount of tiers has to be purchased. Note: LED modules of the same color within a signal tower will light up simultaneously. How to Order Wiring doesn't change The LED Module colors correspond to the LE-502FBW-RYGBC wiring, so re-wiring is not necessary. Tiers Color 1~5 R: Red Y: Amber Rated Voltage G: Green 01: AC/DC 12V B: Blue 02: AC/DC 24V C: Clear/White 10: AC 100V (Top to bottom) 20: AC 220V Mounting P: SZ-012 Pole Mount Туре W: Direct Mount Blank: Continuous light FB: Flashing/ Alarm

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.

Easy to add and remove

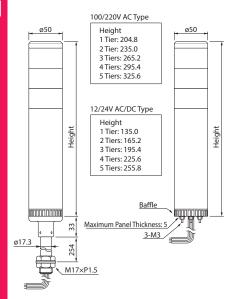
Color-coordinated wiring corresponding to the lens color for quick wiring and verification. •

Interchangeable LED Modules

- 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). •

LE Type

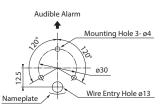
LE-FB Type



Side-Mount Bracket

20

Mounting Dimension



2-ø9

(Unit: mm)

Specifications

Stack	Madal	Rated	Power	Mass	
Number	Model	Voltage	Consumption	(FB)P	(FB)W
	LE-101	AC/DC 12V	1.1W	6400	260-
1 Tier	LE-102	AC/DC 24V	1.6W	640g	260g
i nei	LE-110	AC 100V	5.7W	780g	400g
	LE-120	AC 220V	5.7 W	700g	4009
	LE-201	AC/DC 12V	1.7W	690g	310g
2 Tiers	LE-202	AC/DC 24V	2.2W	0,00 01	Jiog
2 11013	LE-210	AC 100V	6.7W	830g	450g
	LE-220	AC 220V	0.7 W	0509	
	LE-301	AC/DC 12V	2.2W	740g	360g
3 Tiers	LE-302	AC/DC 24V	2.7W	, 10g	Joog
JICIJ	LE-310	AC 100V	7.5W	880g	500g
	LE-320	AC 220V	7.5	0009	5009
	LE-401	AC/DC 12V	2.7W	790q	410g
4 Tiers	LE-402	AC/DC 24V	3.2W	7.50g	109
4 Hers	LE-410	AC 100V	8.3W	930g	550g
	LE-420	AC 220V	0.5 W	930g	5509
	LE-501	AC/DC 12V	3.2W	040-	460-
5 Tiers	LE-502	AC/DC 24V	3.7W	840g	460g
Shers	LE-510	AC 100V	9.1W	0000	6000
	LE-520	AC 220V	9.100	980g	600g





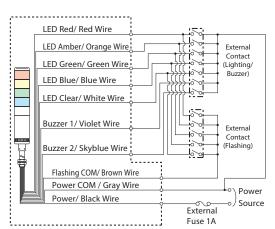




• DC 24V PNP Type

		Power/ Black Wire	Power DC 24V External Fuse 1A	PNP Transistor Output
		LED Red/ Red Wire		ī)-ļ
-		LED Amber/ Orange Wire		
ł		LED Green/ Green Wire	,	
ł		LED Blue/ Blue Wire		<u>i</u> D-i
ł	¥.	LED Clear/ White Wire		<u>)</u>
1	_	<u></u>		

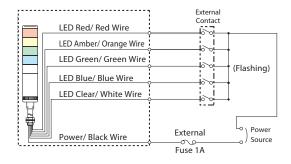
AC/DC 24V Lighting/Flashing Type



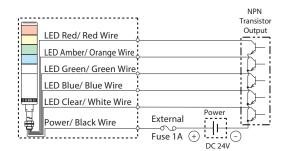
Wiring

LE Model

AC/DC 24V Lighting Type

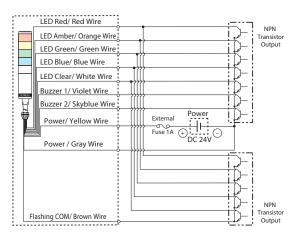


DC 24V NPN Type



<u>LE Model</u>

• DC 24V NPN FB Type



• DC 24V PNP FB Type

		Power/ Black Wire		wer 24V	External Fuse 1A		
		LED Red/ Red Wire	0:-			j]-	PNP Transistor Output
		LED Amber/ Orange Wire					
-		LED Green/ Green Wire		•		j)-	
		LED Blue/ Blue Wire		•	$\downarrow \downarrow \downarrow$	j)-	
		LED Clear/ White Wire					
	į	Buzzer 1/ Violet Wire		[[\square	
1	7	Buzzer 2/ Skyblue Wire					
		Power / Gray Wire				_	
i L		Flashing COM/ Brown Wire					
			Í	ÍÍ		j)-	
						<u> </u>	
						D-	
						Th-	
				L		Ťζ_	PNP Transistor
1						<u> </u>	Output

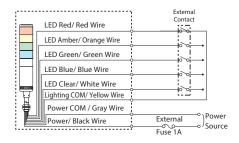
Signal Line Voltage and Current per LED Module							
			LED	Alaı	m		
Voltage Type	Signal Line Voltage	Sign	al Line Cui	rrent	Signal Line	Inrush Current	
	voltage	R, Y	G, C	В	Čurrent		
AC/DC 12V	AC/DC12V	50mA	40mA	44mA			
AC/DC24V	AC/DC 24V	25mA	20mA	22mA	40mA	150mA	
AC 100V, 220V	DC 24V	25mA	20mA	22mA			

Lead-wire color coordination table

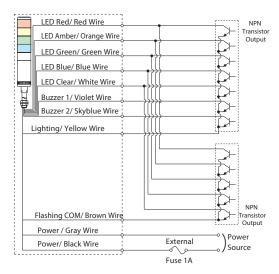
LED Unit Color	Lead Wire Color
Red	Red
Amber	Orange
Green	Green
Blue	Blue
Clear/White	White
Alarm Sounds	Lead Wire Color

Alarm Sounds	Lead Wire Color
Buzzer 1	Purple
Buzzer 2	Skyblue

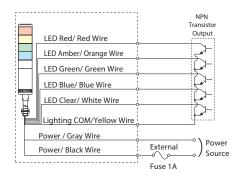
AC Power Lighting Type



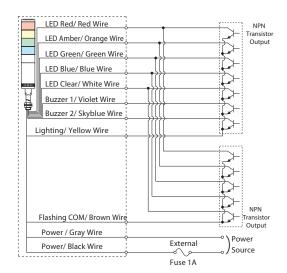
AC Power Lighting/Flashing Type



• AC Power NPN Type



AC Power NPN FB Type





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

FEATURES

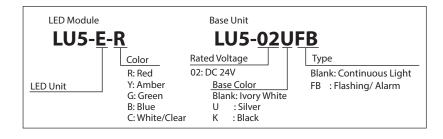
- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Two built-in alarms (FB Type) with selectable sound patterns.
- Maximum volume of up to 85dB (at 1m).
- Direct or pole* mount installation.
- Color-coordinated Terminal block corresponding 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.



Specifications (Module)

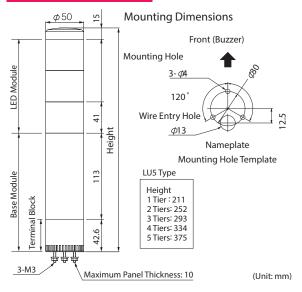
Module Color	Model	Rated Voltage	Operating Voltage Range	Current/ Power Consumption	Mass
RED	LU5-E-R		DC 24V 21.6V - 26.4V	52mA/1.25W	
AMBER	LU5-E-Y			52111A/ 1.25W	
GREEN	LU5-E-G	DC 24V			44g
BLUE	LU5-E-B			42mA/1.25W	
CLEAR	LU5-E-C				

How to Order

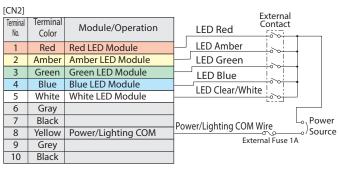


Specifications (Base)

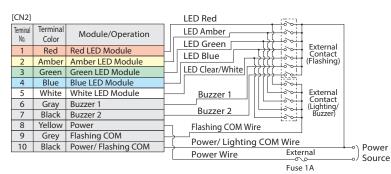
	Model	Options	Rated Voltage	Operating Voltage Range	Open Collector	Mass
Γ	LU5-02	Continuous	DC 24V	21.6V - 26.4V	NPN/PNP	182g
	LU5-02FB	2 Sounds/Flash	DC 24V	21.00 - 20.40	INFIN/PINP	200g



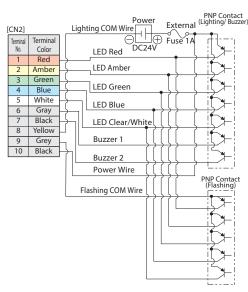
• AC/DC 24V Lighting Type



AC/DC 24V Lighting/Flashing Type

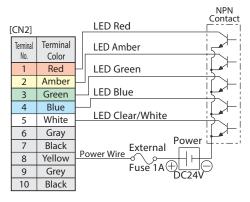


• DC 24V PNP FB Type

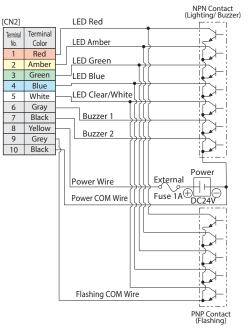


Wiring

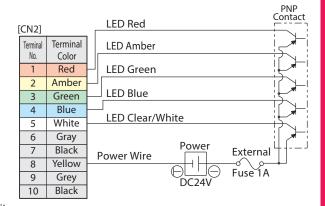
• DC 24V NPN Type



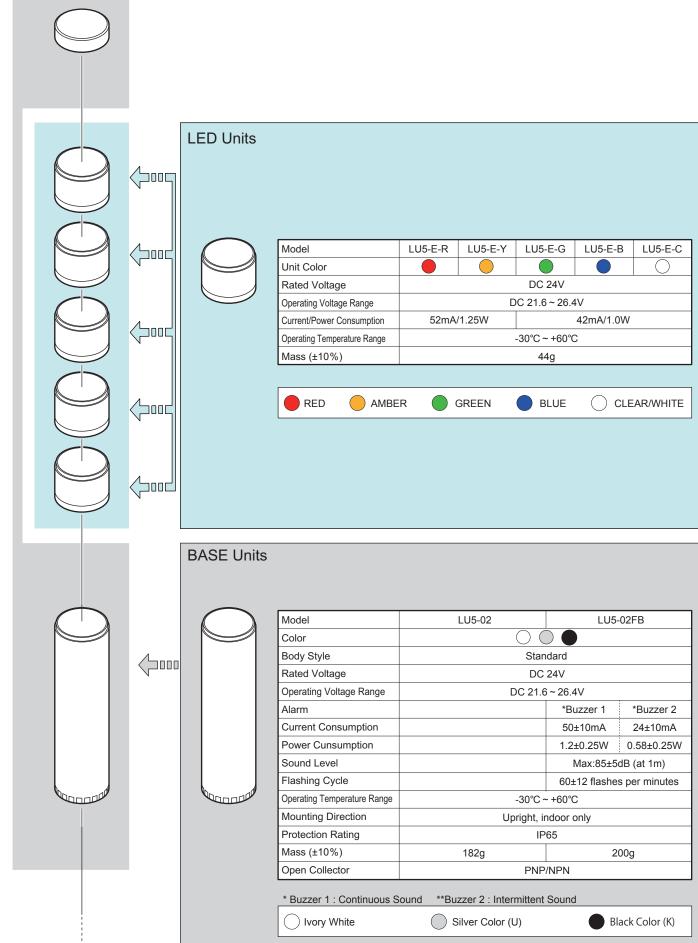
• DC 24V NPN FB Type



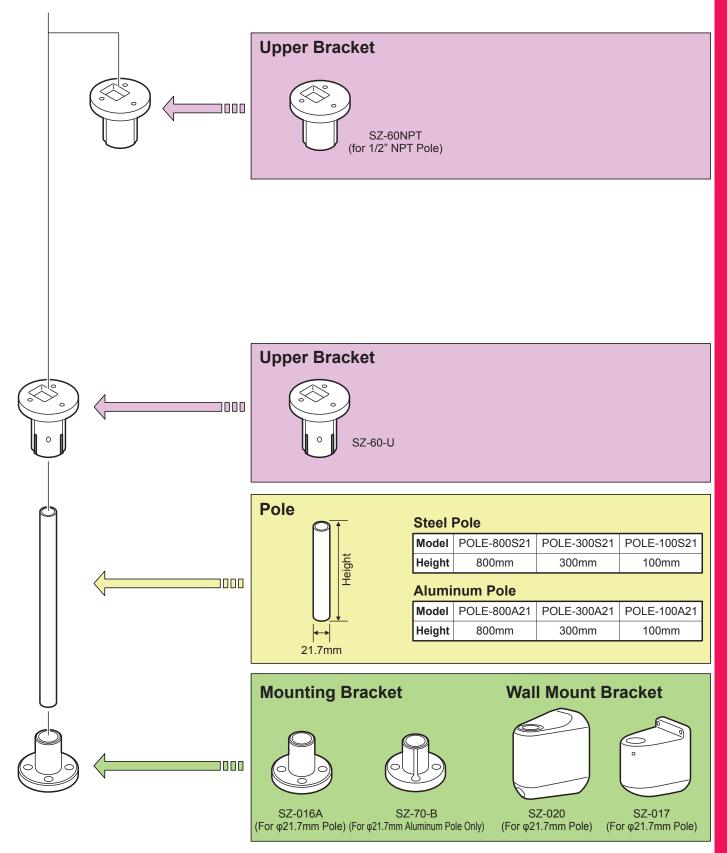
• DC 24V PNP Type



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

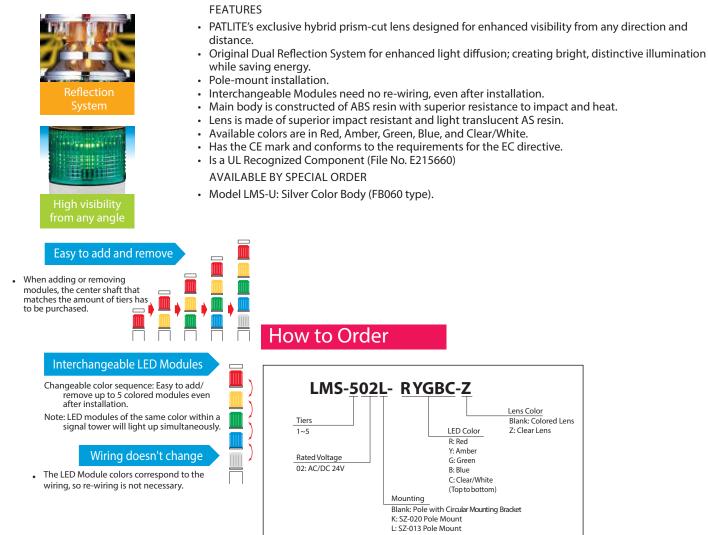


Optional Parts

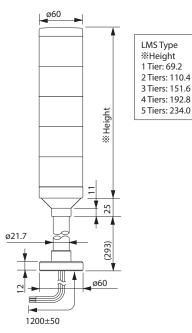




Versatile, cost and energy efficient LED Signal Tower for every need.







Mounting Dimensions

Wiring

DC 24V NPN Type

LED Red/ Red Wire

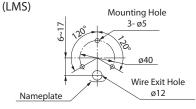
LED Blue/ Blue Wire

Power/ Yellow Wire

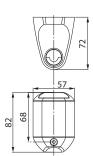
LED Clear/ White Wire

LED Amber/ Orange Wire

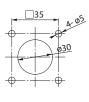
LED Green/ Green Wire



LMS-K



Mounting Dimensions (LMS-K)



NPN

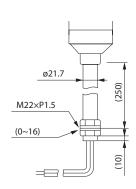
Transistor

Output

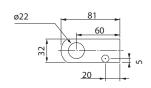
Power

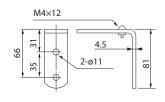
External

Fuse 1A



LMS-L



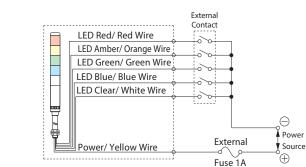




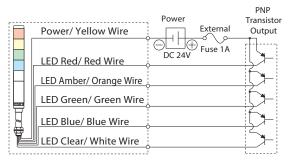
Standard Mounting Bracket

(Unit: mm)

• AC/DC 24V Lighting Type



• DC 24V NPN FB Type



Specifications

Stack	Model	Rated Voltage	Power	Mass		
Number	Model		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
Courtony of Stoven Engineering Inc. (200) 252 020						

Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

81



Lens Color

Z: Clear Lens

Blank: Colored Lens



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





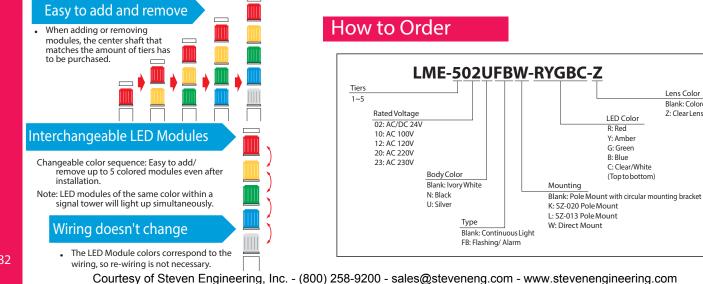
Max. 85dB at 1m

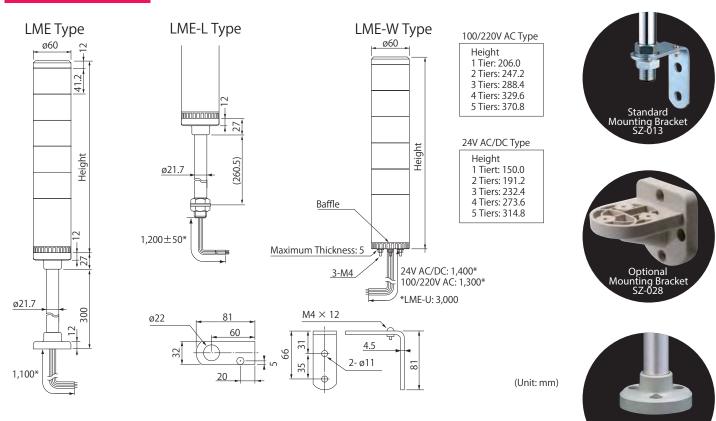


PATLITE's original dual reflection system with its exclusive hybrid prismcut lens and 5 color LED modules creates a bright, distinctive and even illumination



- 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)





Specifications

Stack		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 Tier	LME-112	AC 120V	5.1W	0.0010	1.06kg	0.521/2	
	LME-120	AC 220V	5.100	0.68kg		0.52kg	
	LME-123	AC 230V	1		_		
	LME-202	AC/DC 24V	3.4W	0.48kg	0.78kg	0.32kg	
	LME-210	AC 100V			1 101/0		
2 Tiers	LME-212	AC 120V		0.721/0	1.10kg	0.5740	
	LME-220	AC 220V	7.1W	0.73kg		0.57kg	
	LME-223	AC 230V			_		
	LME-302	AC/DC 24V	3.8W	0.53kg	0.83kg	0.37kg	
	LME-310	AC 100V		0.78kg	1.14kg	0.62kg	
3 Tiers	LME-312	AC 120V	7.9W				
	LME-320	AC 220V	7.5W 0.70Kg		0.02Kg		
	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	Т.Току	0.67kg	
	LME-420	AC 220V	0.83Kg		0.07 kg		
	LME-423	AC 230V					
	LME-502	AC/DC 24V	4.6W	0.63kg	0.93kg	0.47kg	
	LME-510	AC 100V			1.22kg		
5 Tiers	LME-512	AC 120V	0.5\//	9.5W 0.8	0.86kg	1.22kg	0.72kg
	LME-520	AC 220V	9.500	0.86kg		0.72Kg	
	LME-523	AC 230V					

Lead-wire color coordination table

Standard Mounting Bracket

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	l current per LED Module
-------------------------	--------------------------

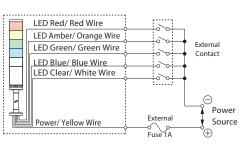
		LED		Alarm		
Rated Voltage	Signal Line Voltage	Signal Line Current		Signal Line	Inrush	
vonage	voltage	R, Y	G, B, C	Ćurrent	Current	
AC/DC 24V	AC/DC 24V					
AC 100V	DC 24V	50mA	20mA	40mA	250mA	
AC 200V	DC 24V					

Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

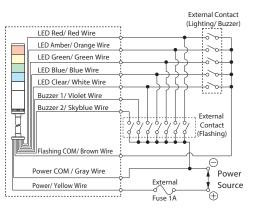
ME/LME-U/LME-N

Wiring

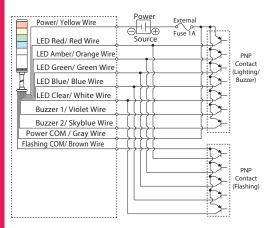
AC/DC 24V Lighting Type



AC/DC 24V Lighting/Flashing Type



• DC 24V NPN FB Type



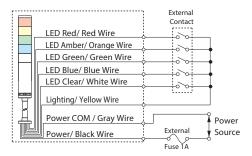
• DC 24V NPN Type

LED Red/ Red Wire	External Contact
LED Amber/ Orange Wire	
LED Green/ Green Wire	<u>i</u> p-
LED Blue/ Blue Wire	P
LED Clear/ White Wire	
Power/Yellow Wire Fuse 1A + C	₩ P

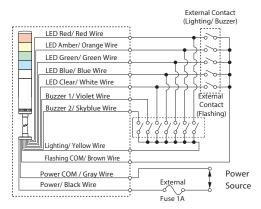
• DC 24V PNP Type

[Power/ Yellow Wire	Power DC 24V	External Fuse 1A	PNP Contac
		LED Red/ Red Wire	⊕Ш⊕		5
		LED Amber/ Orange Wire			it)-
		LED Green/ Green Wire			Б-
	8	LED Blue/ Blue Wire			16-
	Ē	LED Clear/ White Wire			15-

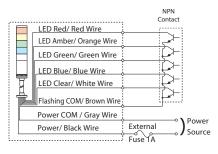
• AC Power Lighting Type



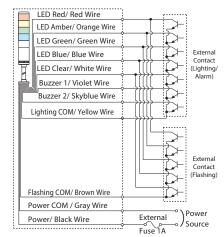
• AC Power Lighting/Flashing Type



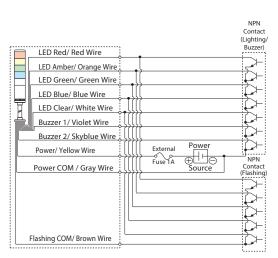
AC Power NPN Type



AC Power NPN FB Type



• DC 24V PNP FB Type



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For more details, visit our website at http://www.patlite.com





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





Adjustable Volume

(Max. 85dB at 1m)

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.
- PATLITE's single-tiered triple or quadruple colored unit is ideal for applications with limited vertical space.
- 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

PATLITE's original dual reflection

system with its exclusive hybrid

prism-cut lens and 5 color

LED modules creates a bright,

distinctive and even illumination.

Rated Voltage		Color Combinations
02: DC 24V		S1: Red, Amber, Green
10: AC 100V		S4: Red, Green, Blue
12: AC 120V		S7: Amber, Green, Blue
20: AC 220V		Q1: Red, Amber, Green, Blue
23: AC 230V		Q2: Red, Amber, Green, Clear/White
	Body Color	Q4: Amber, Green, Blue, Clear/White
	Blank: Ivory White	
	U: Silver	
		Mount
Гуре		Blank: Pole Mount with circular mounting bracket
Blank: Continuo	us light	W: Direct Mount

Specifications

Series	Stack	Model	Rated Voltage	Power	Ma	ass
Series	Number	Model	Rated voltage Consumption		LME	LME-W
		LME-102	DC 24V	2.2W	430g	270g
		LME-110	AC 100V			
LME-S 1	1 Tier	LME-112	AC 120V	5.1W	860g	520g
		LME-120	AC 220V			
		LME-123	AC 230V			
		LME-102	DC 24V	2.2W	430g	270g
		LME-110	AC 100V			
LME-Q	1 Tier	LME-112	AC 120V	5.1W	680g	500
		LME-120	AC 220V			520g
		LME-123	AC 230V			

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







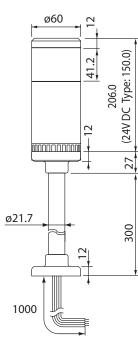
S7: Amber, Green, Blue

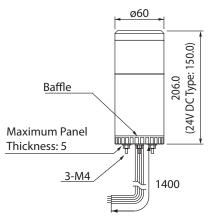


Dimensions

LME Type







Q1: Red, Amber, Green, Blue

Q1: Red, Amber, Green, Clear/White

Q1: Amber, Green, Blue, Clear/White

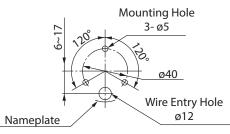
Mounting Dimensions (LME-W)

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

equipment it is attached to.



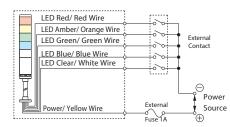
(Unit: mm)



Wiring

LME-S/LME-Q

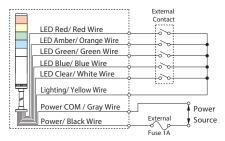
• DC 24V Lighting Type



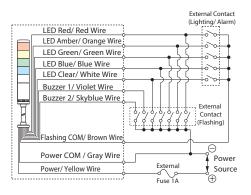
• DC 24V NPN Type

			External
	LED Red/ Red Wire		Contact
	LED Amber/ Orange Wire		\rightarrow
	LED Green/ Green Wire		
	LED Blue/ Blue Wire		\square
Ţ	LED Clear/ White Wire		\square
i	Power/ Yellow Wire	External F	Power
		Fuse IA 🕀	Source

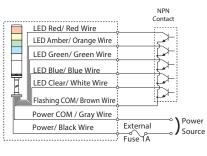
• AC Power Lighting Type



• DC 24V Lighting/Flashing Type



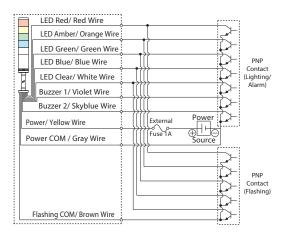
AC Power NPN Type



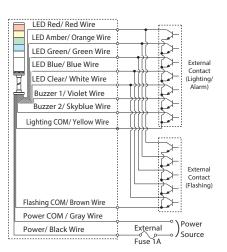
AC Power Lighting/Flashing Type

LED Red/Red Wire LED Amber/ Orange Wire LED Green / Green Wire LED Blue/ Blue Wire	External Contact (Lighting/ Alarm)
LED Clear/ White Wire Buzzer 1/ Violet Wire Buzzer 2/ Skyblue Wire	
Lighting/Yellow Wire	(Flashing)
Flashing COM/ Brown Wire	
Power COM / Gray Wire Power/ Black Wire	External Source
	' Fuse 1A

• DC 24V NPN FB Type



AC Power NPN FB Type



LME-S/Q Lead-wire Color Table

	LED Unit Color	Lead Wire Color
S1	Red, Amber, Green	Red, Orange, Green
S4	Red, Green, Blue	Red, Green, Blue
S7	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

	c: 11:	LED		Alaı	m		
Rated Voltage	Signal Line Voltage	Signal Lin	Signal Line Current		Inrush		
voltage	voltage	R, Y	G, B, C	Čurrent	Current		
DC 24V	DC 24V						
AC 100V							
AC 120V		50mA	20mA	40mA	250mA		
AC 200V	DC 24V	SUMA	JUIIA	SUMA 20M	2011A	4011A	ZJUIIA
AC 220V							
AC 230V							

Lead-wire color coordination table

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

tion table	Alarm Sounds	Lead Wire Color
Vire Color	Buzzer 1	Purple
Red	Buzzer 2	Skyblue
range		
ireen		
Blue		
Vhite		

L









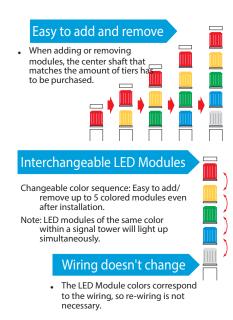
The Signal Tower with a water resistant design for wet environments.



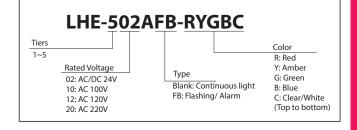
PATLITE's original dual reflection system with its exclusive hybrid prism-cut lens and 5 color LED modules creates a bright, distinctive and even illumination.

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).



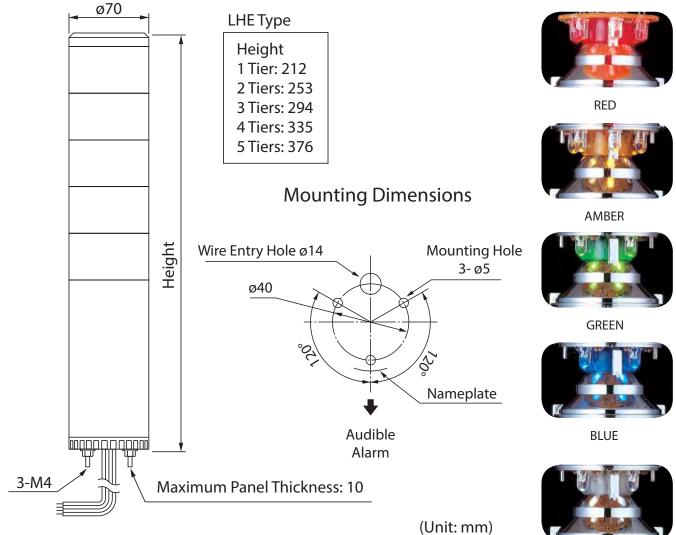
How to Order





LHE-A

"Super Bright" LED provides the Highest level of visibility.

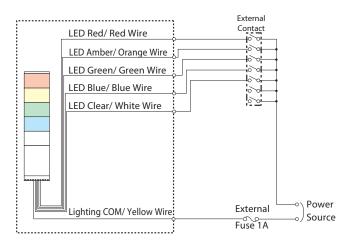


CLEAR/WHITE

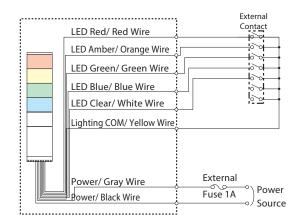
Specifications

Stack Number	Model	Rated Voltage	Power Consumption	Mass	
	LHE -102A/AFB	AC/DC 24V	2.2W	400g	
	LHE -110A/AFB	AC 100V			
1 Tier	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		750g	
5 Hers	LHE -312A/AFB	AC 120V	7.9W		
	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			
2 11613	LHE -512A/AFB	AC 120V	10.9W	850g	
	LHE -520A/AFB	AC 220V			

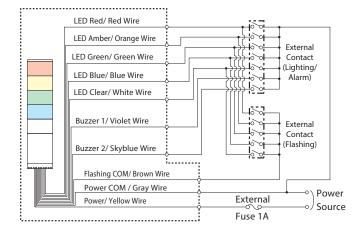
• AC/DC 24V Lighting Type



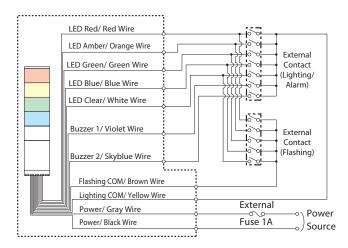
• AC Power Lighting Type



• AC/DC 24V Lighting/Flashing Type



AC Power Lighting/Flashing Type



		LE	D	Alarm		
Rated Voltage Signal Line Voltage		Signal Line Current		Signal Line	Inrush	
	voltage	R, Y	G, C, B	Čurrent	Current	
AC/DC 24V	AC/DC 24V	50mA	40mA			
AC 100V				40mA	150mA	
AC 120V	DC 24V	50mA	40mA	40MA	TSUIIA	
AC 220V						

Signal Line voltage and current per LED Module

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

LHE-A



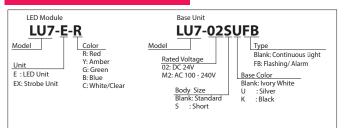
Versatile modular Signal Tower featuring easy assembly and wiring designed for every need.

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.



How to Order



THE LU7 Series Advantage

Innovative LED Modular Style Signal Tower

Ultra-bright LEDs combined with an Innovative prism-cut lens design

With the innovative prism-cut lens, a small diameter can emit enough light to be seen from great distances while reducing costs of the Signal Tower.



Ultra-bright LED

Two selectable alarms integrated in the Base Module

Adding sound to a visual signal enhances the critical nature of the status, bringing more attention to certain conditions while still allowing up to five LED modules to be used because the alarms are built into the base.



Delivers Sound of up to 90 dB (at 1m)

Alarm can be easily heard over ambient noises.

Modular Design

shipping crate material.

LU2



With a modular design, freely configuring and assembling a Signal Tower is easy and the modules can be put away for when

the machine has to be shipped to reduce shipping costs and

Modular Construction

Color-coded & spring-loaded Terminal Block

Easier wiring and more reliable in comparison to screw-type connections with each terminal block color corresponding to the LED module color.



Wiring Terminals

O-rings

The O-rings seal the tower from liquids so that an IP-65 rating can be achieved to allow the tower to be used in wet environments.



IP65 Protection

IP65 & IP66 with Optional Cable Gland

The new LU7 is designed to add a cable gland so that a rating of IP-65 can be achieved to be used in harsher environments. (Cable Gland is to be supplied by the user.)

Specifications (Base)

LU7 Base Units

E

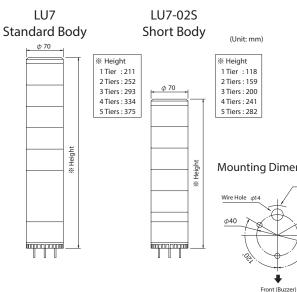
Lov buse offics										
Model	LU7-02S LU7-02 LU7-02FB		LU7-02M2	LU7-02M2FB		Unit Color Variation				
Rated Voltage		DC	24V		AC 100 to 240V (50/60Hz)		Short Body			
Operating Voltage Range		DC 21.	6 - 26.4V		AC 90	to 250V (50/6	50Hz)	Ivory White	Silver	Black
Alarm	_	_	Buzzer 1*	Buzzer 2**	—	Buzzer 1*	Buzzer 2**			
Current Consumption	_	_	50±10mA	24±10mA	—	50±10mA	24±10mA	-2		
Power Consumption	_	_	1.2±0.25W	0.58±0.25W	_	1.8±0.25W	1.3±0.25W		No.	
Sound Level			Max: 90±5	0±5dB (at 1m)		Max: 90±5dB (at 1m)		LU7-02S	LU7-02SU	LU7-02SK
			Min: 70dB or less (at 1m)			Min: 70dB or less (at 1m)		Standard Body		
Flash Cycle	-	_	60±12 flashe	es per minute	—	60±12 flashe	s per minute		0	0
Operating Temperature Range		-30°C to +60°C -25°C to +55°C				-				
Mounting Direction			Up	oright, Indoor	ndoor Only					
Protection Rating			IP65 (IP	66 with Cable	e Gland***)					
Mass (±10%)	150g	250g	280g 310g		310g	34	0g	ALL ALL ALL ALL ALL ALL ALL ALL ALL ALL	And a state of the	
Open Collector		PNF	PNP/NPN NPN			1				
*Buzzer 1: Continuous **Buzzer 2	*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*							
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

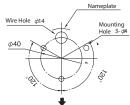
Dimensions





	Contact Capacity				
	Specifications	DC 24V	AC 100 - 240V		
LED Unit	Current Consumption	Red,Amber: 52	mA Green,Blue,White/Clear: 42mA		
(1 Unit)	Contact Capacity	ls	s≥100mA, Vs≥AC 35V		
	Current Consumption	50mA			
Alarm	Inrush Current	100mA			
	Contact Capacity	ls≥100mA, Vs≥AC 35V			
Douvor	Current Consumption	360mA	40mA (250VAC) - 110mA (90VAC)		
Power Supply	Contact Capacity	ls≥500mA Vs≥AC 35V	9A (90V) - 25A (250V) Vs≥AC 250V		
External Contact Fuse					
	Voltage	Fuse Amperage Rating			
	All Models	250V, 1A			

Mounting Dimensions

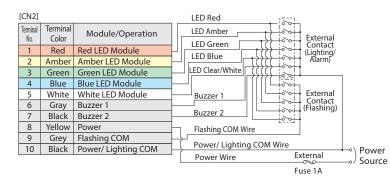


Wiring (cont.)

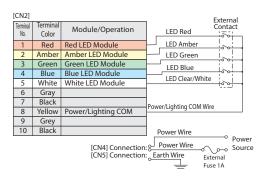
AC/DC 24V Lighting Type

[CN2]			External
Terminal No.	Terminal Color	Module/Operation	LED Red
1	Red	Red LED Module	LED Amber
2	Amber	Amber LED Module	LED Green
3	Green	Green LED Module	
4	Blue	Blue LED Module	LED Dide LED Clear/White
5	White	White LED Module	
6	Gray		
7	Black		Power/Lighting COM Wire
8	Yellow	Power/Lighting COM	Source
9	Grey		External Fuse 1A
10	Black		

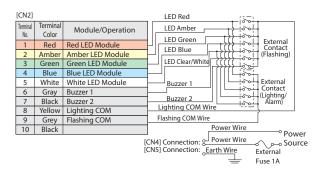
AC/DC 24V Lighting/Flashing Type



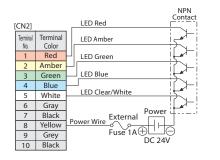
• AC Power Lighting Type



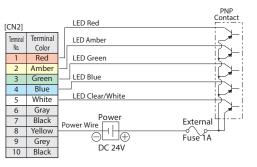
• AC Power Lighting/Flashing Type



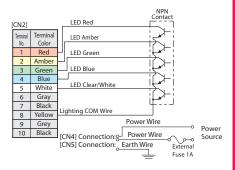
• DC 24V NPN Type



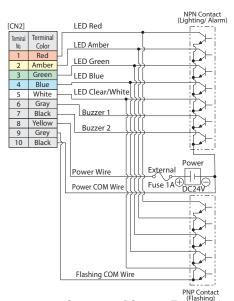
DC 24V PNP Type



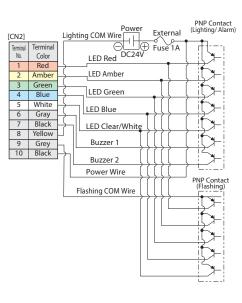
AC Power NPN Type



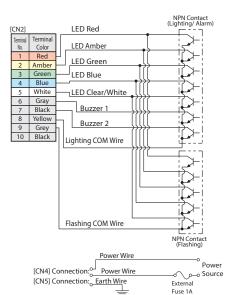
• DC 24V NPN FB Type



• DC 24V PNP FB Type



• AC Power NPN FB Type

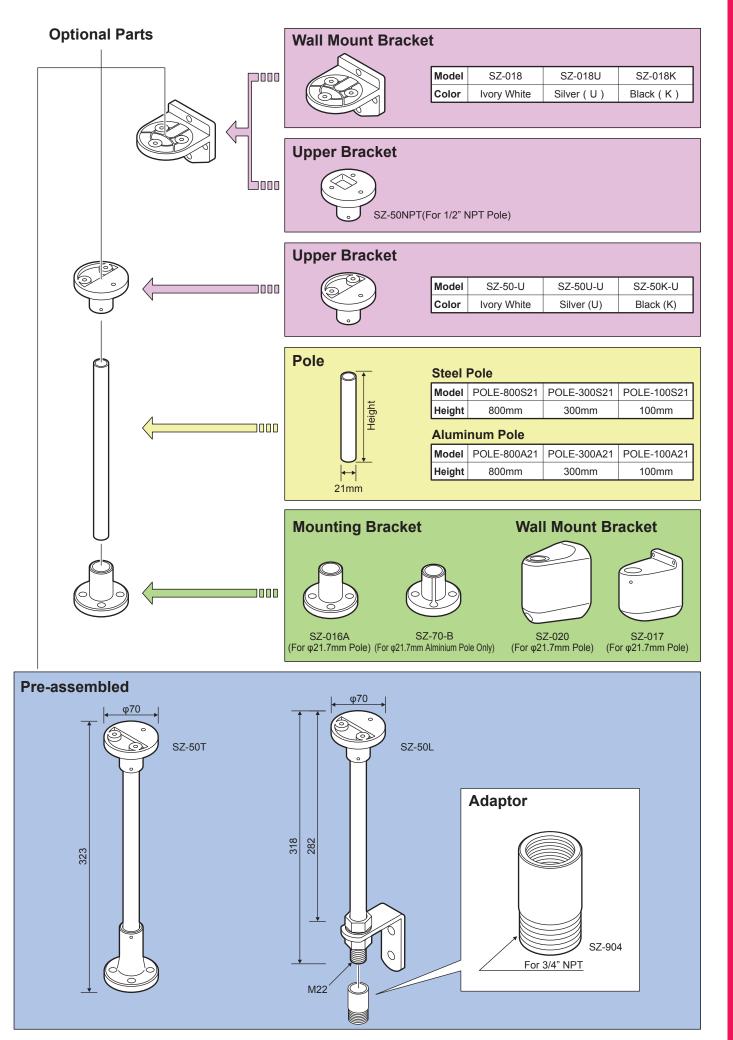


Voice and Sound Module		
Model	LU7-V1	
Туре	Voice Synthesizer	
Rated Voltage	DC 24V	
Power Consumption	on 3.5W	
Mass (±10%)	170g	
LED Units		
	LU7-E-R LU7-E-Y LU7-E-G LU7-E-B LU7-E-C	
Unit Color		
Rated Voltage	DC 24V	
Operating Voltage Ran		
Current/Power Consum		
Operating Temperature Mass (±10%)		
	60g	
LED Strobe Module		
Model	LU7-XE-R LU7-XE-Y LU7-XE-G LU7-XE-B LU7-XE-C	
Unit Color		
Rated Voltage	DC 24V	
Power Consumption	on 290mA 290mA 140mA 270mA 280mA	
Mass (±10%)	70g	
	AMBER GREEN BLUE CLEAR/WHITE	
BASE Units	AMBER GREEN BLUE CLEAR/WHITE	
BASE Units		
BASE Units Model	AMBER GREEN BLUE CLEAR/WHITE	
BASE Units Model Color	LU7-02S LU7-02 LU7-02FB LU7-M2 LU7-M2FE	
BASE Units Model Color Standard Body/Short	LU7-02S LU7-02 LU7-02FB LU7-M2 LU7-M2FE Body Short Standard Standard	
BASE Units Model Color Standard Body/Short Rated Voltage	LU7-02S LU7-02 LU7-02FB LU7-M2 LU7-M2FB Body Short Standard Standard DC 24V AC 100~240V (50/60Hz	
BASE Units Model Color Standard Body/Short	LU7-02S LU7-02 LU7-02FB LU7-M2 LU7-M2FB Body Short Standard Standard DC 24V AC 100~240V (50/60Hz ange DC 21.6 ~ 26.4V AC 90~250V (50/60Hz	
BASE Units Model Color Standard Body/Short Rated Voltage Operating Voltage R	LU7-02S LU7-02 LU7-02FB LU7-M2 LU7-M2FE Body Short Standard Standard DC 24V AC 100~240V (50/60Hz ange DC 21.6 ~ 26.4V AC 90~250V (50/60Hz - "Buzzer 1"Buzzer 2 - "Buzzer 1"Buzzer BASE Units Model Color Standard Body/Short Rated Voltage Operating Voltage R Alarm Current Consumption Power Consumption	LU7-02S LU7-02 LU7-02FB LU7-M2 LU7-M2FB Body Short Standard Standard DC 24V AC 100~240V (50/60Hz) ange DC 21.6 ~ 26.4V AC 90~250V (50/60Hz) - *Buzzer 1 *Buzzer 2 - *Buzzer 1 *Buzzer 1 *ion - 50±10mÅ 24±10mÅ - 50±10mÅ 24±10m
BASE Units Model Color Standard Body/Short Rated Voltage Operating Voltage R Alarm Current Consumpting Power Consumpting	LU7-02S LU7-02 LU7-02FB LU7-M2 LU7-M2FB Body Short Standard Standard Body Short Standard AC 100~240V (50/60Hz) ange DC 21.6 ~ 26.4V AC 90~250V (50/60Hz) - *Buzzer 1 *Buzzer 2 - *Buzzer 1 *Buzzer 1 tion - 50±10mÅ 24±10mÅ - 50±10mÅ 24±10mÅ	
BASE Units Model Color Standard Body/Short Rated Voltage Operating Voltage R Alarm Current Consumption Power Consumption	LU7-02S LU7-02 LU7-02FB LU7-M2 LU7-M2FE Body Short Standard Standard DC 24V AC 100~240V (50/60Hz ange DC 21.6 ~ 26.4V AC 90~250V (50/60Hz - 'Buzzer 1 'Buzzer 2 'Buzzer 1 'Buzzer 1 ion - 50±10mA 24±10mA - 50±10mA 24±10m on - 12±025W 0.53±025W - 13±0.25W 13±0.25W	
BASE Units Model Color Standard Body/Short Rated Voltage Operating Voltage R Alarm Current Consumpti Standard Body Standard Body Flashing Cycle	LU7-02S LU7-02 LU7-02FB LU7-M2 LU7-M2FE Body Short Standard Standard Body Short Standard AC 100~240V (50/60Hz ange DC 21.6 ~ 26.4∨ AC 90~250V (50/60Hz ion - *Buzzer 1 *Buzzer 2 - *Buzzer 1 *Buzzer 1 *Buzzer 1 ion - 50±10mÅ 24±10mÅ - 50±10mÅ 24±10mÅ on - 12±025W 0.58±025W - 18±025W 1.3±025W - Max.90±5dB (at 1m) - Max.90±5dB (at 1m) - Max.90±5dB (at 1m) - - 60±12 flashes per minut - 60±12 flashes per minut - 60±12 flashes per minut	
BASE Units Model Color Standard Body/Short Rated Voltage Operating Voltage R Alarm Current Consumpti Standard Body Ower Consumpti Sound Level Flashing Cycle Operating Temperature	LU7-02S LU7-02 LU7-02FB LU7-M2 LU7-M2FE Body Short Standard Standard DC 24V AC 100~240V (50/60Hz ange DC 21.6 ~ 26.4V AC 90~250V (50/60Hz - *Buzzer 1 *Buzzer 2 - *Buzzer 1 *Buzzer ition - 50±10mÅ 24±10m - 50±10mÅ 24±10m pon - 12±025W 038±025W - 18±025W 13±025 - Max90±5dB (at 1m) - Max90±5dB (at 1m) - 0±12 ftashes per minute - 0±12 ftashes per minute - 0±12 ftashes per minute - 0±12 ftashes per minute	
BASE Units BASE Units Model Color Standard Body/Short Rated Voltage Operating Voltage R Alarm Current Consumption Standard Body Nower Consumption Standard Body Devel Flashing Cycle Operating Temperature Mounting Direction	LU7-02SLU7-02LU7-02FBLU7-M2LU7-M2FEBodyShortStandardStandardBodyShortStandardStandardBodyShortStandardStandardBodyShortStandardStandardBodyShortStandardStandardBodyDC 21.6 ~ 26.4VAC 100~240V (50/60HzangeDC 21.6 ~ 26.4VAC 90~250V (50/60Hzion-*Buzzer 1 *Buzzer 2*Buzzer 1 *Buzzer 1 *Buzzer 1ion-12t025W 0.58t025W-18t025W 1.3t025ion-12t025W 0.58t025W-18t025W 1.3t025-Max90±5dB (at 1m)-Max90±5dB (at 1m)-Max90±5dB (at 1m)-Max90±5dB (at 1m)60±12 flastes per minute-60±12 flastes per minute60±12 flastes per minute-25°C ~ +55°CnUpright, Indoor onlyUpright, Indoor onlyUpright, Indoor only	
BASE Units Model Color Standard Body/Short Rated Voltage Operating Voltage R Alarm Current Consumpti Power Consumpti Standard Body Flashing Cycle Operating Temperature Mounting Direction Protection Rating	LU7-02S LU7-02 LU7-02FB LU7-M2 LU7-M2FE Body Short Standard Standard Body Short Standard AC 100~240V (50/60Hz ange DC 21.6 ~ 26.4V AC 90~250V (50/60Hz - *Buzzer 1 *Buzzer 2 - *Buzzer 1 *Buzzer 1 - *Buzzer 1 *Buzzer 2 - *Buzzer 1 *Buzzer 1 - 12±025W 0.8±0.25W - 18±0.25W - 12±025W 0.8±0.25W - 18±0.25W 13±0.25W - 0±12 flashes per minut - 0±12 flashes per minut - 0±12 flashes per minut - 0±12 flashes per minut - 0±12 flashes per minut - 0±12 flashes per minut - 0±12 flashes per minut - 0±12 flashes per minut - 0±12 flashes per minut - 0±12 flashes per minut - 0±12 flashes per minut - 0±12 flashes per minut - 0±12 flashes per minut - 0±12 flashes per minut - 0±12 flashes per minut <t< th=""></t<>	
BASE Units Model Color Standard Body/Short Rated Voltage Operating Voltage R Alarm Current Consumptiv Standard Body Standard Body Flashing Cycle Operating Temperature Mounting Direction Protection Rating Mass (±10%) Desce Optimate Text	LU7-02S LU7-02 LU7-02FB LU7-M2 LU7-M2FE Body Short Standard Standard Body Short Standard AC 100~240V (50/60Hz ange DC 21.6 ~ 26.4V AC 90~250V (50/60Hz - 'Buzzer 1 'Buzzer 2 'Buzzer 1 'Buzzer 1 - 'Buzzer 1 'Buzzer 2 'Buzzer 1 'Buzzer 1 - 50±10mÅ 24±10mÅ - 50±10mÅ 24±10mÅ - 12±025W 038±025W - 18±025W 13±025 - 12±025W 038±025W - 18±025W 13±025 - - 10±12 flashes per minute - 0±12 flashes per minute - - 0±12 flashes per minute - 0±12 flashes per minute - - 0±12 flashes per minute - 0±12 flashes per minute - - 0±12 flashes per minute - 0±12 flashes per minute - - 0±12 flashes per minute - 0±12 flashes per minute - - - 0±12 flashes per minute - -	
BASE Units Image: Standard Body	LU7-02S LU7-02 LU7-02FB LU7-M2 LU7-M2FE Body Short Standard Standard Body Short Standard AC 100~240V (50/60Hz ange DC 21.6 ~ 26.4V AC 90~250V (50/60Hz - *Buzzer 1 *Buzzer 2 - *Buzzer 1 *Buzzer 1 *Buzzer 1 - *50±10mÅ 24±10mÅ - 50±10mÅ 24±10mÅ pon - 12±025W 05±025W - 18±025W 13±025W - Max90±5dB (at 1m) - Max90±5dB (at 1m) - - W1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute -	
BASE Units	LU7-02S LU7-02 LU7-02FB LU7-M2 LU7-M2FE Body Short Standard Standard Body Short Standard AC 100~240V (50/60Hz ange DC 21.6 ~ 26.4V AC 90~250V (50/60Hz - *Buzzer 1 *Buzzer 2 - *Buzzer 1 *Buzzer 1 *Buzzer 1 - *50±10mÅ 24±10mÅ - 50±10mÅ 24±10mÅ pon - 12±025W 05±025W - 18±025W 13±025W - Max90±5dB (at 1m) - Max90±5dB (at 1m) - - W1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute -	
BASE Units Image: Standard Body	LU7-02S LU7-02 LU7-02FB LU7-M2 LU7-M2FE Body Short Standard Standard Body Short Standard AC 100~240V (50/60Hz ange DC 21.6 ~ 26.4V AC 90~250V (50/60Hz - *Buzzer 1 *Buzzer 2 - *Buzzer 1 *Buzzer 1 *Buzzer 1 - *50±10mÅ 24±10mÅ - 50±10mÅ 24±10mÅ pon - 12±025W 05±025W - 18±025W 13±025W - Max90±5dB (at 1m) - Max90±5dB (at 1m) - - W1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute - 0±1218abs per minute -	

Optional Parts

Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

LU7



Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

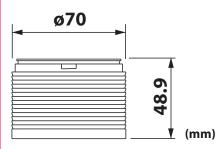


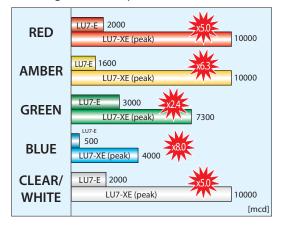
Stackable LED strobe module saves energy and requires low maintenance.

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





Brightness Comparison

Specifications

LU7 LED Strobe Units**

Model	LU7-XE-R	LU7-XE-Y	LU7-XE-G	LU7-XE-B	LU7-XE-C			
Unit Color	LED Unit Re	LED Unit A	LED Unit Gr	LED Unit Bl	LED Unit Cle			
Rated Voltage			DC 24V					
Current Consumption	29	90mA	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.

/O
For more details, visit our website at http://www.patlite.com



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

How to Order

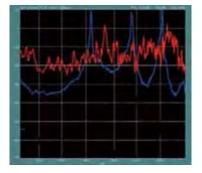
LE	D Signal Tower	1 02 2 3	(4) W (5) -	(6)	@ N _ (I		② Body Color	③ Liahtina		A ME -	6 LED Color
				\sim	() NO. OF L	lighting Units	2 Body Color	3 Lighting	④ Alarm	⑤ Wiring	6 LED Color
					3:3 Tiers	5:5 Tiers	Blank: Off-white	Blank: Illumination Only	Blank: No Alarm	C: M12 Connector	R: Red
							D: Dark Gray	B: Illumination/Flashing	B: Alarm	H: Lead Wires*	Y: Amber
		Body Color: Off-white	Lighting: Illumination				S: Silver				G:Green
	Ex.: LS7-302WC-RYGNN	Alarm: None	Wiring: M12 Connector								B:Blue
		LED Colors: Red, Amber,	Green, (Blank), (Blank)		* F type mo	dels come wit	h two alarms and	are only available with Lea	d Wire and require	s an 'FBWH' part no.	C: Clear/White
					* C type m	odels (M12 Co	nnector type) are	only available with a conti	inous sound alarm		N:Blank

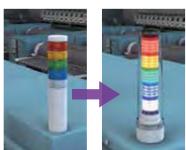
Specifications

	Number of		Rated		Rated Current	Maximum	Maximum Sound	Operating	Protection	Mass: Lead-	wire Type (H)	Mass: M12 Conn	ector Type (C)
Model	Lighting Units	Body Color	Voltage	Mounting	Consumption	Rated Current		Temperature Range	Rating	Illumination (No Mark)	Illumination/Flash/ 2 Alarms (FB)	Illumination (No Mark)	1 Alarm (B)
LS7-302	3 Tiers	Off-white (Blank) Dark Grey	DC 24V	Direct	Red: 20mA Amber, Green, Blue,	Red: 35mA Amber, Green, Blue,	Buzzer1 ab. 82dB Lead-wireType (Intermittent Beep1) M12 ConnectorType (Continuous Beep)	-30⁰Cto+60⁰C	Illumination Type: IP65*	280g	370g	260g	320g
LS7-502	5 Tiers	(D) Silver (S)	(±10%)	(Indoors Only)	Clear/White 30mA Alarm 40mA	Clear/White 40mA Alarm 55mA	Buzzer2 ab. 85dB Lead-wireType (Intermittent Beep2) M12 ConnectorType (None)	(Less than 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

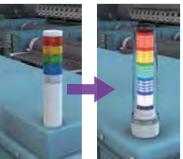
In addition to the existing lead wire, M12 connector quick disconnect is also available. Moreover, when moving to carry and to go out of the device, it is possible

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 twobolt 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.



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.

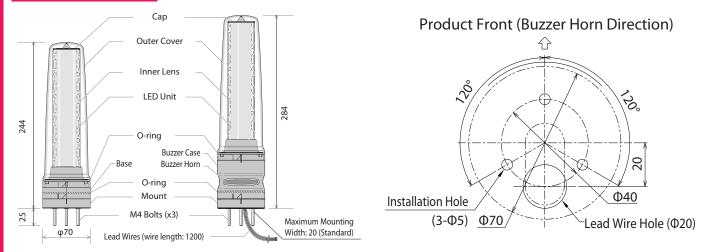


All-plastic Bracket

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.

.....

......



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.









Wall Mounting Bracket SZ-110



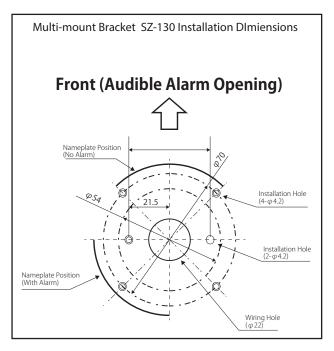


Multi-mount Bracket SZ-130







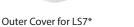


M12 Connector & Cable (Manufactured by the OMRON Corp.) SZ-120-02 Cable Length 2m (XS2F-D821-DH0-R) SZ-120-05 Cable Length 5m (XS2F-D821-GH0-R) SZ-120-10 Cable Length 10m (XS2F-D821-JH0-R)

* Only for connecting to the LS7.



Replacement Parts



Material: Polycarbonate

O-ring for LS7 Material: Silicone



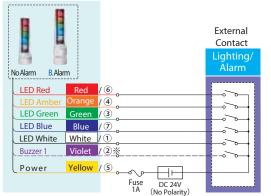
Mount Cover for LS7 (Accessory)

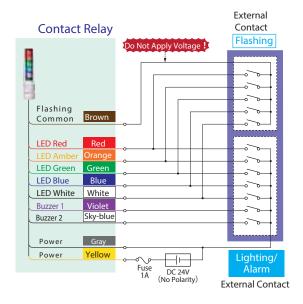
Material: Silicone

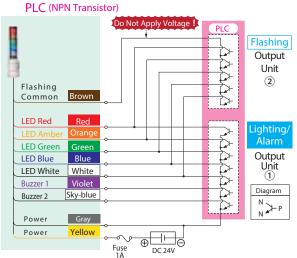


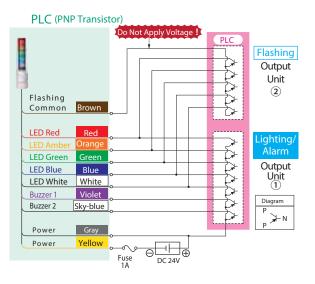
Wiring

Contact Relay



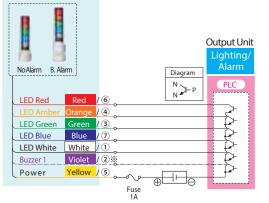




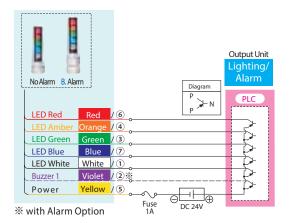


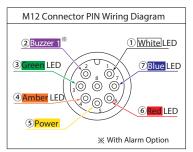
Note: When connecting the PLC outputs for illumination and flashing functions, the wiring (Common Wires) has to be separate between the flashing and non-flashing circuits.

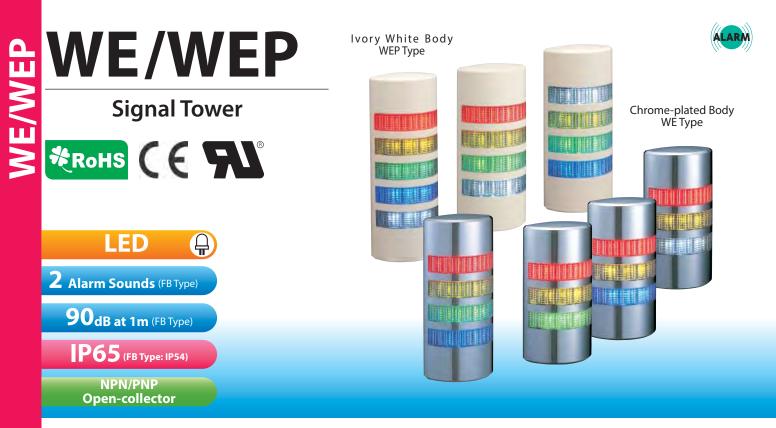
PLC (NPN Transistor)



PLC (PNP Transistor)





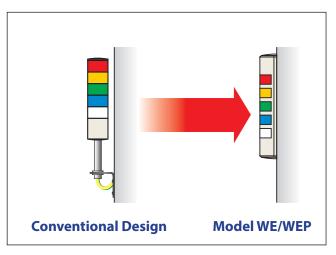


Ultra slim half-moon shaped Signal Tower offers seamless integration with most equipment.

FEATURES

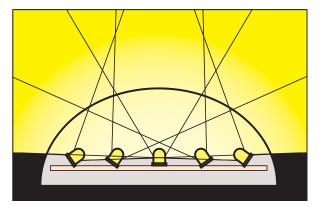
- · Clear vertical-cut lens for enhanced illumination over a wide perspective.
- Has an optional built-in audible alarm (FB type) with an output of 90dB (at 1m).
- Installation can be vertical or horizontal.
- Two body color selections of chrome plated or ivory white.
- · Lens made of superior impact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

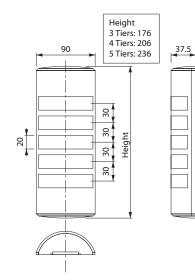


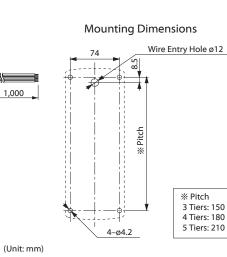
Patlite has perfected a 37.5mm-thin design that significantly enhances integration with the equipment as a built-in signal system.

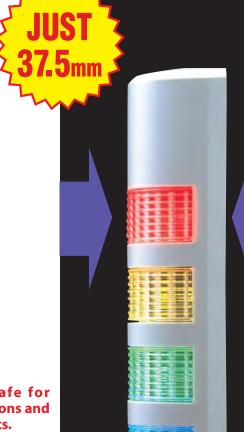
Exclusively New LED Lighting Design



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.



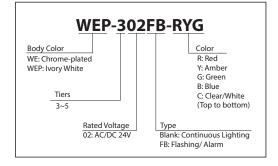






IP65 construction is safe for installation in damp locations and dusty factory environments.

How to Order



Specifications

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

Alarm Sounds	Lead Wire Color
Buzzer 1	Purple
Buzzer 2	Skyblue

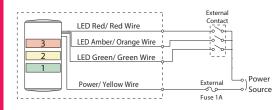
Signal Line voltage and current per LED Module

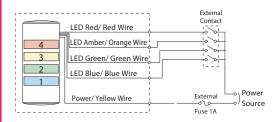
			LE	D	Alarm			
Model	Rated Voltage	Signal Line Voltage	Signal Lin	e Current	Signal Line	Inrush		
	Voltage	voltage	R, Y	G, B, C	Čurrent	Current		
WE/WEP	AC/DC 24V	AC/DC 24V	30mA	25mA	40mA	250mA		

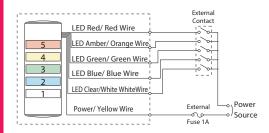
WE/WEP

Wiring

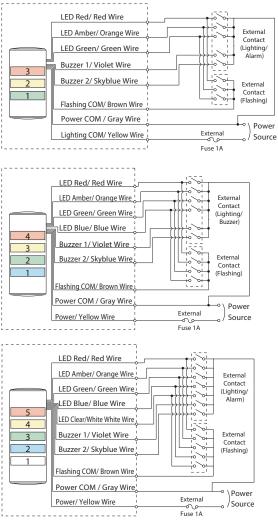
• AC/DC 24V Lighting Type



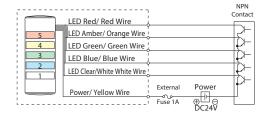




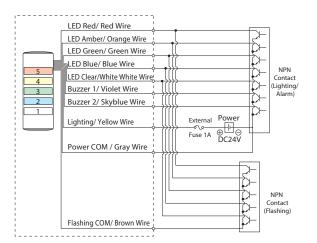
• AC/DC 24V Lighting/Flashing Type



• DC 24V NPN Type



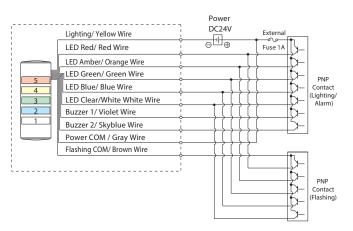
DC 24V NPN FB Type



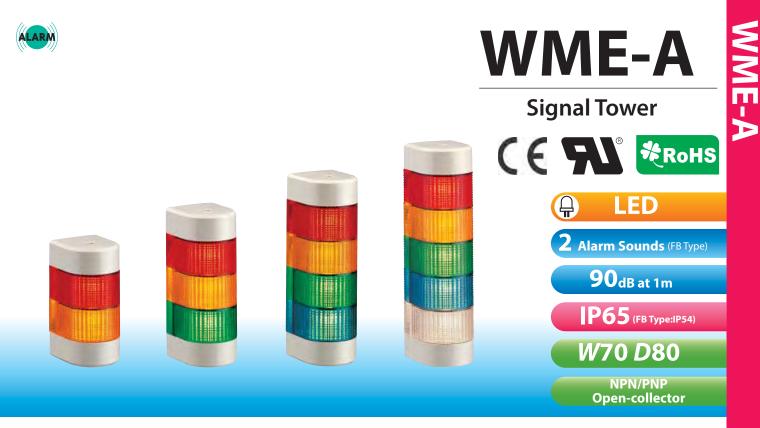
• DC 24V PNP Type

,		Power		PNP
	Power/ Yellow Wire	DC24V	External	Contact
5	LED Red/ Red Wire	ĭ_⊖Ш⊕	Fuse 1A	
4	LED Amber/ Orange Wire	ř]		tb
3	LED Green/ Green Wire	, ,		fb
	LED Blue/ Blue Wire	ĭ		t5–
	LED Clear/ White Wire	Y I		5
		1		

• DC 24V PNP FB Type



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

Interchangeable LED Modules

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	\Box			\Box

LED Tiers are changeable, even after installation.

However, the Center Shaft 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

Exclusively New LED Lighting Design



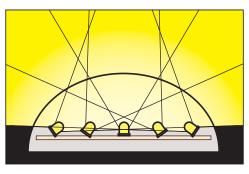
Red

Amber

Green

Blue

Clear/White



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

WME-A

	WME- <u>40</u>	2AF	<u>B-RY</u>	GB	
<u>Tier</u> 2~5			Type Blank: Cont FB: Flashing	tinuous Lighting g / Alarm	Color R: Red Y: Amber G: Green B: Blue C: Clear/White (Top to bottom)

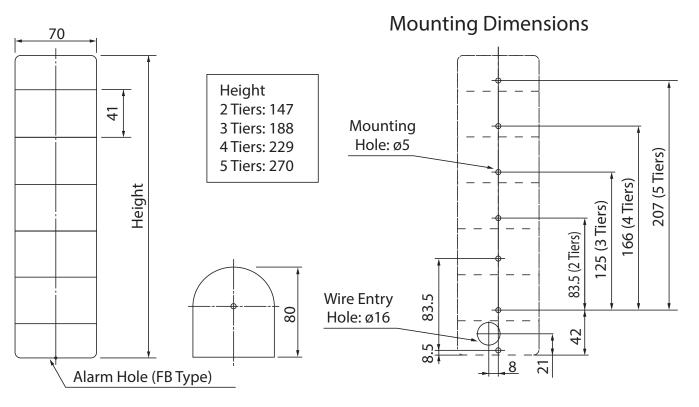
Specifications

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

Signal Line voltage and current per LED Module

				LE	D	Alarm		
Model		Rated Voltage	Signal Line Voltage	Signal Line Current		Signal Line	Inrush	
			voltage	R, Y	G, B, C	Čurrent	Current	
		AC/DC 24V	AC/DC 24V	25 m A	50mA	40mA	250m A	
WME-A	AC 100V - 240V	DC 24V	35mA	SUMA	40mA	250mA		

Dimensions



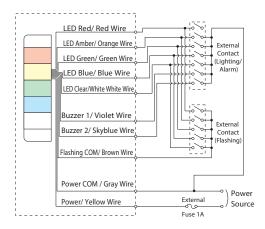
(Unit: mm)

 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 downard direction in order to preserve the IP54 rating.

Wiring

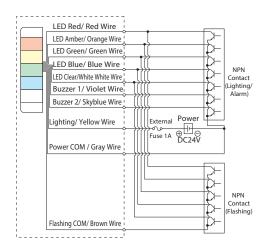
AC/DC 24V Lighting/Flashing Type



• DC 24V NPN Type

 	NPN Contact
LED Red/ Red Wire	- <u>-</u>
LED Amber/ Orange Wire	R
LED Green/ Green Wire	<u>P</u> -I
LED Blue/ Blue Wire	<u>P</u> -I
LED Clear/White White Wire	
Power/ Yellow Wire External Power Fuse 1A DC24V	

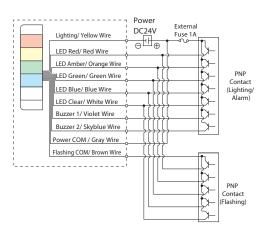
• DC 24V NPN FB Type



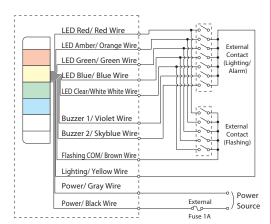
DC 24V PNP Type

Power/ Yellow Wire	Power DC24V	External	PNP Contact
LED Red/ Red Wire	⊖⊡⊕	Fuse 1A	
LED Amber/ Orange Wire			t)-
LED Green/ Green Wire			b-
LED Blue/ Blue Wire			b–
LED Clear/White White Wire			5

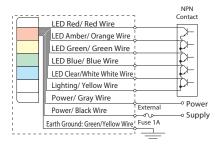
• DC 24V PNP FB Type



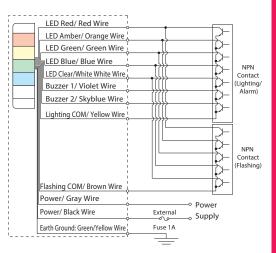
• AC Power Lighting/Flashing Type



AC Power NPN Type



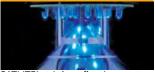
AC Power NPN FB Type





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

Triple Reflection System



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

LED Tiers are changeable, even after installation.

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

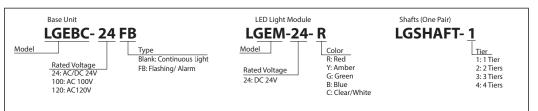
FEATURES

- PATLITE's large prism cut lens to enhance illumination in the downward direction. (Lens Size: $\phi 100mm\ x\ 60mm\ high)$
- 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)

LGE-402FB-RYGB Color Tiers R: Red 1~4 Y: Ambei Rated Voltage G: Green Type 02: AC/DC 24\ B: Blue Blank: Continuous Lighting 10: AC 100V C: Clear/White 20: AC 220V FB: Flashing/ Alarm (Top to bottom)

How to Order (Module)



5 "Super Bright" LED Colors to choose from!

Red 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	5.200	1.0kg			
	LGE-202	AC/DC 24V	4.0W	0.6kg			
2 Tiers	ers LGE-210	AC 100V	7.7W	1.2kg			
	LGE-220	AC 220V	7.7 VV	1.2KY			
	LGE-302	AC/DC 24V	6.0W	0.8kg			
3 Tiers	LGE-310	AC 100V	10.2W	1.4kg			
	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	12.700	1.5kg			

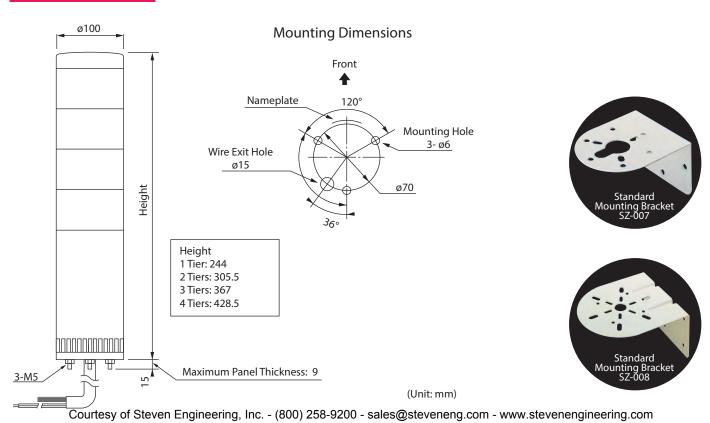
Light System	Model	Rated Voltage	Power Consumption	Mass	
	LGE-102FB	AC/DC 24V	2.5W	0.4kg	
1 Tier	LGE-112FB	AC 100V	5.7W	1.01/0	
	LGE-120FB	AC 220V	5.7 VV	1.0kg	
	LGE-202FB	AC/DC 24V	4.5W	0.6kg	
2 Tiers	LGE-212FB	AC 100V	8.2W	1.2kg	
	LGE-220FB	AC 220V	0.200	1.2Kg	
	LGE-302FB	AC/DC 24V	6.5W	0.8kg	
3 Tiers	LGE-312FB	AC 100V	10.7W	1.41	
	LGE-320FB	AC 220V	10.7 W	1.4kg	
	LGE-402FB	AC/DC 24V	8.5W	0.9kg	
4 Tiers	LGE-412FB	AC 100V	13.2W	1.5kg	
	LGE-420FB	AC 220V	13.200	т.эку	

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

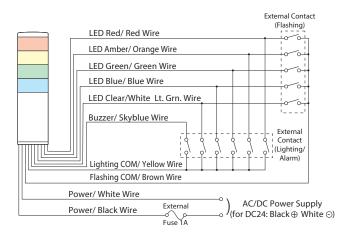
Specifications (Modules)

Light Unit	Color	Rated Voltage	Power Consumption	Power Unit	Rated Voltage	Operation	Part No.	Light Units per Base		
LGEM24-R	RED	AC/DC 24V	AC/DC 24V	AC/DC 24V		LGEBC-120	AC 120V	Continuous	LGSHAFT-1	1
LGEM24-Y	AMBER					LGEBC-24	AC/DC 24V		LGSHAFT-2	2
LGEM24-G	GREEN				AC/DC 24V	C 24V 2.0W	LGEBC-120FB	AC 120V	Continuous/	LGSHAFT-3
LGEM24-B	BLUE				LGEBC-24FB	AC/DC 24V	Flashing/Alarm	LGSHAFT-4	4	
LGEM24-C	CLEAR]								

Dimensions



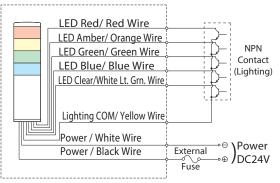
AC/DC 24V Lighting/Flashing Type



Signal Line voltage and current per LED Module

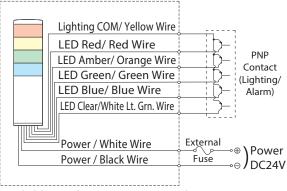
			LED	Alarm		
Model	Rated Voltage	Signal Line Voltage	Signal Line Current	Signal Line Current	Inrush Current	
LGE-A	AC/DC 24V	AC/DC 24V				
LGE-A	AC 100	DC 24V	90mA	20mA	250mA	
LGE-A	AC 220V	DC 24V				

DC 24V NPN Type



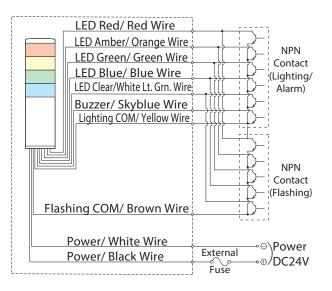
Skyblue and Brown Wire not used

DC 24V PNP Type

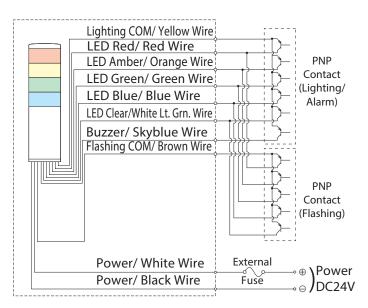


Skyblue and Brown Wire not used

• DC 24V NPN FB Type



• DC 24V PNP FB Type



MEMO

For more details, visit our website at http://www.patlite.com



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

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



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

APPLICATIONS

Assembly workstations

How to Order

- 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.

now to order
UCCT 212
HSST- <u>312</u>
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

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

ME	EMO
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For more details, visit our website at http://www.patlite.com

Signal Lights



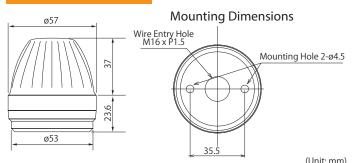


NE Series LED Dome Indicator Light; The dome-shaped globe provides increased visibility while the LEDs provide years of maintenance-free operation.

FEATURES

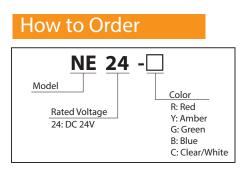
- Enhanced Illumination with the use of long-life, super bright LEDs.
- Low power consumption increases energy efficiency.
- · High vibration-resistance and unnecessary bulb replacement makes it maintenance-free.
- Uses a terminal block for easy wiring.
- Applications are suitable for small tooling machines, 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



Specifications

Model	Color	Rated Voltage	Power Consumption	Operating Temperature Range	Mass
NE-24-R	RED		0.63W		
NE-24-Y	AMBER		0.6377		
NE-24-G	GREEN	DC 24V	0.56W	-30 C - +50 C	55g
NE-24-B	BLUE		0.53W		
NE-24-C	CLEAR/WHITE		0.45W		





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KHE features three flashing patterns for diverse applications.

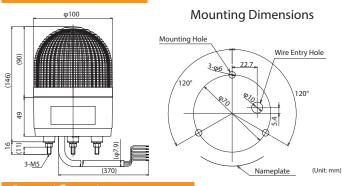
FEATURES

- 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

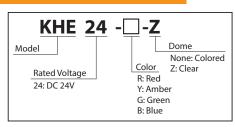
Dimensions



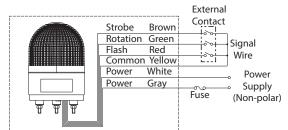
Specifications

Model	Color	Rated	Power	Flash Patterns			Mass
Model	COIOI	Voltage	Consumption	Flash	Rotation	Strobe	IVIdSS
	RED		0.214/				
KHE-24	AMBER		DC 24V 8.2W	55 ±10%		75 ±10% fps (double-flash)	450g
KHE-24	GREEN	DC 24V		fps			
	BLUE		21.6W				

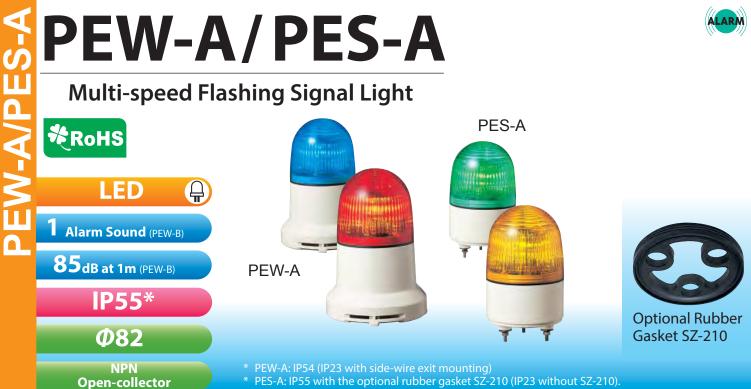
How to Order









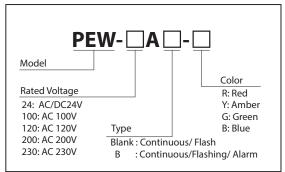


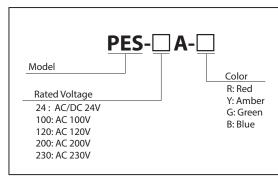
Dome shape LED Signal Light featuring enhanced visibility and maintenance-free operation.

FFATURES

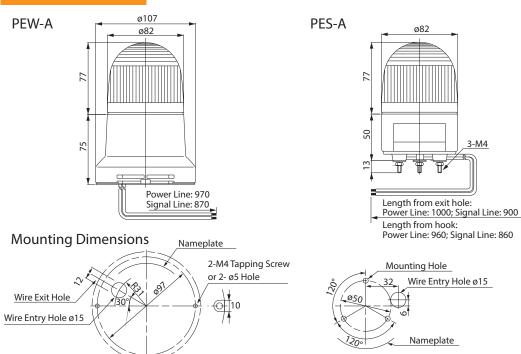
- Has maintenance-free LED's that consume nearly half the power incandescent bulb models (AC100V/200V) do.
- Newly-developed triple-reflection system for enhanced visibility and low power consumption.
- PEW-B type has a built-in adjustable audible alarm with a volume of up to 85dB (at 1m).
- Indoor installation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

How to Order

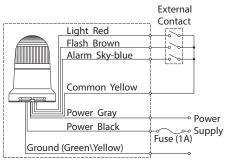


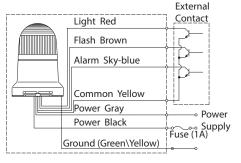


Dimensions



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 Voltage	Power Consumption	Inrush Current	Mass
PFW-24A	R/Y		1.2W		2200
PEW-24A	G/B		1.5W	2.54	320g
PEW-24AB	R/Y	AC/DC 24V	2.2W	2.5A	240a
FEW-24AD	G/B		2.5W		340g
PEW-100A	R/Y		2.8W		5200
PEW-100A	G/B	AC 100V	3.3W		520g
	R/Y		5.3W	1.0A	540g
PEW-100AB	G/B		5.8W		
PEW-120A	R/Y	AC 120V	3.0W		520g
PEVV-120A	G/B		3.5W		
PEW-120AB	R/Y		5.7W		540g
PEVV-120AD	G/B		6.2W		
PEW-200A	R/Y		2.5W	0.5A	520g
PEVV-200A	G/B	AC 200V	3.2W		
PEW-200AB	R/Y	AC 200V	4.9W		F 40 m
PEW-200AB	G/B		5.6W		540g
PEW-230A	R/Y		3.1W		5200
PEW-230A	G/B	AC 230V	3.8W		520g
	R/Y	AC 230V	5.9W		5400
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	2.40
PES-24A	G/B	AC/DC 24V	1.5W	2.5A	240g
PES-100A	R/Y	AC 100V	4.2W		
PES-TOUA	G/B	ACTOOV	4.7W	1.0A	430g
PES-120A	R/Y	AC 120V	4.4W	1.0A	
PE5-120A	G/B		4.9W		
PES-200A	R/Y	AC 200V	4.0W		430g
PES-200A	G/B	AC 2007	4.7W	0.5A	
PES-230A	R/Y	AC 230V	4.6W	0.5A	
FE3-230A	G/B	AC 250V	5.3W		



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

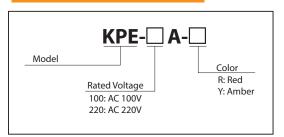
FEATURES

- 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.

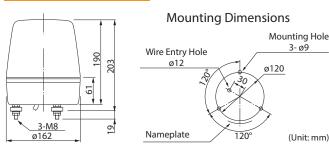
Specifications

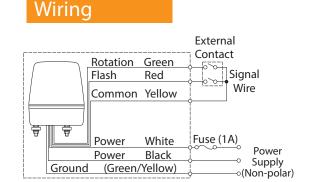
Model	Rated Voltage	Power Consumption	Flash Rate	Mass
KPE-100A	AC 100V	Continuous: 4W	50 - 200 rpm	1.5kg
KPE-220A	AC 220V	Flashing: 9W	60 fpm	т.эку

How to Order



Dimensions





3-ø9

(Unit: mm)

MEMO

For more details, visit our website at http://www.patlite.com

MEMO	

For more details, visit our website at http://www.patlite.com

Revolving Warning Light





SKHE/SKHEB Super-bright LED Revolving Warning Li Super-bright LED Revolving Warning Light A LED 90dB at 1m (SKHEB) **IP23 Ø118**

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

SKHE - A-

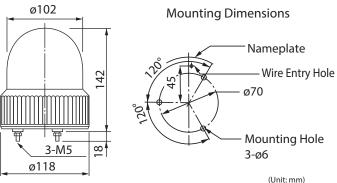
Color R: Red

Y: Amber

G: Green B: Blue



Dimensions



Specifications

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

Model

Alarm

B: With

None: Without

Rated Voltage

12 : DC 12V 24 : DC 24V 100: AC 100V 200: AC 200V

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.





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

FEATURES

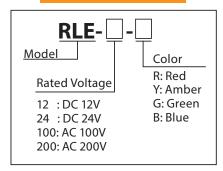
- · Indoors allows upright, inverted, and horizontal installation; outdoors allows upright installation only.
- Dome lens is made of superior impact and heat resistant polycarbonate resin.
- · Compact motor with high durability and energy-efficient characteristics.
- LED integrated reflection system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

pecifications

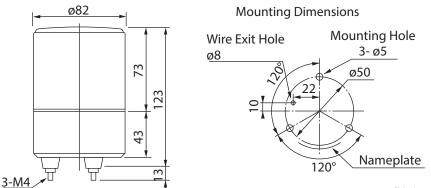
	Model	Rated Voltage	Power Consumption	Flash Rate (fpm)	Mass
\bigcirc	RLE-12	DC 12V	1.7W		400 ~
	RLE-24	DC 24V	3.9W	120	400g
	RLE-100	AC 100V	2W	120	(00-
	RLE-220	AC 220V	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		600g

O Available by Special Order

How to Order



Dimensions



(Unit: mm)

RKE/RKEB/RHE/RHEB



Super-bright LED Revolving Warning Light



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

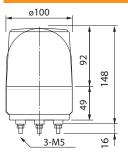
FEATURES

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

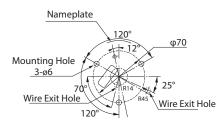
Specifications

			_	
Model	Rated Voltage	Current Consumption	Flash Rate	Mass
RKE/RKEB-12	DC 12V	0.25A		400 -
RKE/RKEB-24	DC 24V	0.16A		400g
RKE/RKEB-100	AC 100V	0.04A	1	(00-
RKE/RKEB-200	AC 200V	0.02A	120 6	600g
RHE/RHEB-12	DC 12V	0.25A	120 fpm	100~
RHE/RHEB-24	DC 24V	0.16A		400g
RHE/RHEB-100	AC 100V	0.04A		6000
RHE/RHEB-200	AC 200V	0.02A		600g

Dimensions



Mounting Dimensions



(Unit: mm)

RKE R: Red RHE Y: Amb

Model

Newly developed reflector for LED revolving warning light

E Y: Amber <u>Alarm</u> None: Without B: With 12 : DC 12V 24 : DC 24V 100: AC 100V 200: AC 200V

How to Order

Color

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.

RKEM/ RHEM

Super-bright LED Revolving Warning Light

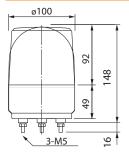


Compact LED revolving warning light featuring one superbright LED chip with an enhanced dispersion reflection system and brushless motor.

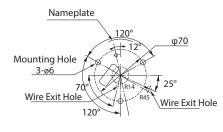
FEATURES

- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- Brushless compact motor with high durability and long-lasting 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.

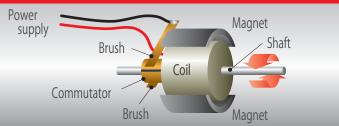
Dimensions



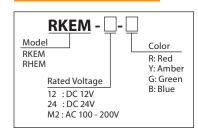
Mounting Dimensions



Conventional Motor Construction



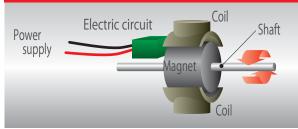
How to Order



Specifications

Model	Rated Voltage	Current Consumption	Flash Rate	Mass	
RKEM-12	DC 12V	0.20A			
RKEM-24	DC 24V	0.14A		400g	
RKEM-M2	AC 100-200V	0.20A-0.06A			
RHEM-12	DC 12V	0.20A	120 fpm		
RHEM-24	DC 24V	0.14A			
RHEM-M2	AC 100-200V	0.20A-0.06A			

Brushless Motor Construction



Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

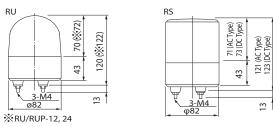
(Unit: mm)



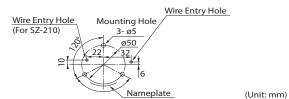
Compact Revolving Warning Light perfectly designed for small devices. FEATURES

- 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.
- Rotating parabolic reflector to enhance visibility from a distance.
- · Vibration-resistant automobile bulb for extended bulb life.
- · Available Colors are Red, Amber, Green, and Blue.
- AVAILABLE BY SPECIAL ORDER
- Body Color: Silver
- Mounting Pole and Bracket: Standard with RUP Series.

Dimensions



Mounting Dimensions



Specifications

Madal			Flash Rate	В	ulb	Mass	
Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	RU/RS	RUP
RU/RS-12	DC 12V	0.5A		12V 6W	18	0.4kg	0.01.0
RU/RS-24	DC 24V	0.3A		24V 6W	19		0.8kg
RU/RS-100	AC 100V	0.1A			18	0.6kg	1.0kg
RU/RS-120	AC 120V	0.1A	120	12V 6W			
RU/RS-220	AC 220V	0.054		120 000	10		
RU/RS-240	AC 240V	0.05A					
O RU/RS-24AC	AC 24V	0.3A		24V 6W	19	0.4kg	0.8kg

How to Order

RU

Rated Voltage

12 : DC 12V

24 : DC 24V 100: AC 100V 120: AC 120V

220: AC 220V 240: AC 240V

24AC: AC 24V (Special Order)

Color

R: Red

B: Blue

Y: Amber

G: Green

Model

RU

RS RUP

Available by Special Order

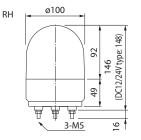


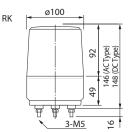
Compact Revolving Warning Light featuring high durability and easy wiring with terminal block.

FEATURES

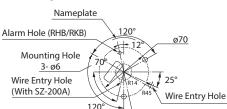
- · Indoors allows upright, inverted, and sideways installation; Outdoors allows upright installation only.
- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- Dome is made from superior impact and heat resistant polycarbonate resin.
- Main body is made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

Dimensions





Mounting Dimensions

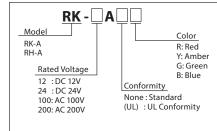




Model	Rated	Current	Flash Rate	Bu	ılb	Mass
Woder	Voltage	Consumption	(fpm)	Ratings	Repl. No.	IVIdSS
RH/RHB-12A	DC 12V	0.8A		12V 10W	9	400g
RH/RHB-24A (UL)	DC 24V	0.5A		24V 10W	10	400g
RH/RHB-120A (UL)	AC 120V	0.1A				
RH/RHB-200A	AC 200V	0.03A	1	12V 5W	12	600g
RH/RHB-240A (UL)	AC 240V	0.05A	170			
RK/RKB-24A (UL)	DC 24V	0.5A	1	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				

120 - (Unit: mm) Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

How to Order





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

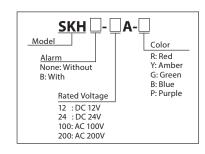
FEATURES

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

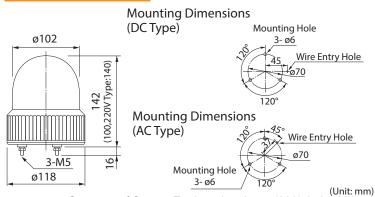
Specifications

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

How to Order



Dimensions





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

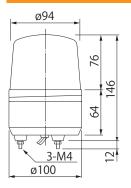
FEATURES

- · 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

Carries	Model	Rated	Current	Flash Rate	Bulb		Mass
Series	Model	Voltage Consumption		(fpm)	Ratings	Repl. No.	Mass
	SKH-12EA	DC 12V	0.8A		12V 10W	9	100 ~
USA Version	SKH-24EA	DC 24V	0.5A		24V 10W	10	400g
	SKH-120EA	AC 120V	0.07A]	12V 5W	12	600g
	SKH-12EA	DC 12V	0.8A	170	12V 10W	9	100 ~
Standard	SKH-24EA	DC 24V	0.5A]	24V 10W	10	400g
Version	SKH-100EA	AC 120V	0.065A		12V 5W	12	(00m
	SKH-200EA	AC 200V	0.03A		120 200		600g

Dimensions

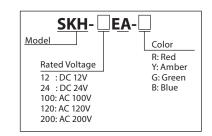


Mounting Dimensions

Mounting Hole <u>3- ø5</u> <u>8</u> Wire Entry Hole <u>070</u> Nameplate 120° (Unit: mm

(Unit: mm)

How to Order





A Revolving Warning Light featuring corrosion-resistance and a stable and silent rotation.

FEATURES

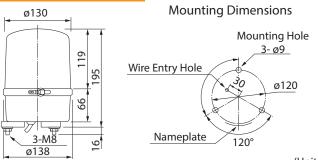
- Main body is made of a melamine baked finish with a corrosion-proof stainless steel (SUS 304) lens mounting fixture.
- Has the CE mark and conforms to the requirements (for 12V, 24V, 48V DC types only) for the EC directive.
- · Indoors allows upright, inverted, and sideways installation; outdoors allows 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	Voltage Consumption		Ratings	Repl. No.	IVIASS
SKP-101A	DC 12V	2.6A		12V 35W	1	0.8kg
SKP-102A	DC 24V	1.2A		24V 35W	2	0.6ку
SKP-104A	DC 48V	0.8A	140	48V 35W	5	0.9kg
SKP-110ADC	DC 100V	0.35A		120V 40W 36	36	0.9Kg
SKP-110A	AC 100V	0.3A		1200 4000	50	1.01/0
SKP-120A	AC 200V	0.13A	120	220V 30W	37	1.0kg

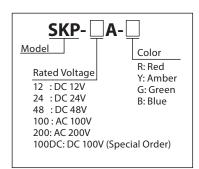
O Available by Special Order

Dimensions



(Unit: mm)

How to Order





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

FEATURES

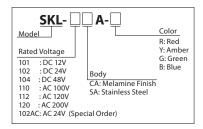
- Main body for the SKL-CA has a scratch-free melamine baked finish, and the SKL-SA is of corrosion-proof stainless steel.
- Has the CE mark and conforms to the requirements (for 12V, 24V, 48V DC type only) for the EC directive.
- Indoors allows upright, inverted, and sideways installation; outdoors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

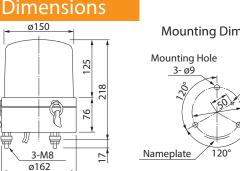
Specifications

Model	Rated			Bu	Mass	
Model	Voltage Consumption (fp		(fpm)	Ratings	Repl. No.	Mass
SKL-101CA/101SA	12V DC	2.6A		12V 35W	1	
SKL-102CA/102SA	24V DC	1.2A		24V 35W	2	1.3kg
SKL-102ACSA	24V AC		140	240 3300	2	
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	120	1200 4000	50	1.5kg
SKL-120CA/120SA	200V AC	0.13A		220V 30W	37	

O Available by Special Order

How to Order





Mounting Dimensions

(Unit: mm)

Wire Entry Hole

ø140



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

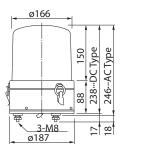
FEATURES

- Extended product lifespan by using vibration-resistance and reliable operation, even under a severely cold environment (-30°C).
- Main body is made of a melamine baked finish with a corrosion-proof stainless steel (SUS 304) lens mounting fixture.
- · Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- Dome lens is made of superior weather-resistant and light-translucent acrylic resin.
- The rotary mechanism is belt-driven for an extremely quiet 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.	wass
SKC-201A	12V DC	2.6A		12V 35W	1	1 (1.0
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	50	1.8kg
SKC-220A	200V AC	0.13A	160	220V 30W	37	

Dimensions

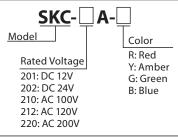


Mounting Dimensions Mounting Hole <u>Wire Entry Hole</u> <u>3- 09</u> 0140

120

Nameplate

How to Order



(Unit: mm)



Corrosion-resistant Revolving Warning Light.

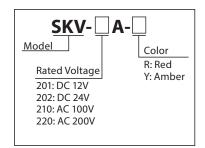
FEATURES

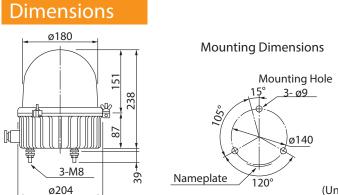
- Main body is made of corrosion-resistant aluminum alloy die-cast with a metal cable gland.
- Dome lens is made of superior impact and heat resistant polycarbonate resin.
- Operating Temperature Range is from -30°C to +80°C.
- Allows upright, inverted, and sideways installation.
- Available Colors are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

Specifications

Model	Rated Current		Flash Rate	Bu	Mass	
Model	Voltage	Consumption (fp		Ratings	Repl. No.	IVIASS
SKV-101A	12V DC	2.6A		12V 35W	1	2 Char
SKV-102A	24V DC	1.2A	140	24V 35W	2	2.6kg
SKV-110A	100V AC	0.3A		120V 40W	36	2.8kg
SKV-120A	200V AC	0.13A	120	220V 30W	37	2.0KY

How to Order









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.

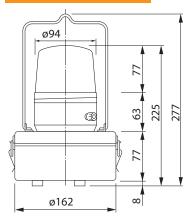
Specifications

Model		Power	Flash Rate (fpm)	Bulb		Mass
		Consumption		Ratings	Repl. No.	Mass
SKHB-1006D	DC6V (SUM-1x5)	214/	170	6V 3W	8	2.0kg
SKHB-1006MD		(SUM-1x5) 3W				2.1kg

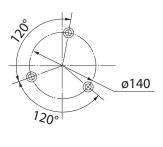
	<u> </u>		
How t	\sim ()	rol	ar
	0		-

	<u>SKHB</u> -1006	_D
<u>Model</u>	Magnet Base None: Without M: With	Color R: Red Y: Amber

Dimensions



Mounting Dimensions



(Unit: mm)



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

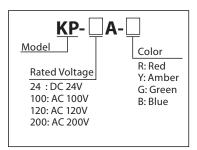
FEATURES

- 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.

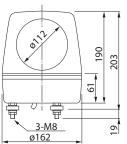
Specifications

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

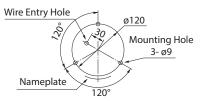
How to Order



Dimensions



Mounting Dimensions





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



Install in various directions when using for indoor applications.

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

Upside-down

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

FEATURES

- 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.

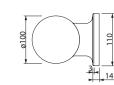
*WHB installation is upright only for outdoor use.

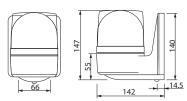
Specifications

Model	Rated	Current Flash Rate Bulb		lb	Mass	
Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	IVIdSS
WK-12A	DC 12V	0.8A		12V 10W	9	
WH-24A	DC 24V	0.5A		24V 10W	10	550g
WK-24A	DC 24V	0.57				
WH-100A	AC 100V	0.07A				
WK-100A	AC 100V	0.07A				750g
WH-120A	AC 120V	0.08A	1	12V 5W	12	
WK-120A	AC 120V			120 500		
WH-200A		0.044				
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	0.5A		240 1000	10	
WHB-100A	AC 100V				12	750g
WKB-100A		0.074				
WHB-120A	4.6.1001	0.07A		12V 5W		
WKB-120A	AC 120V					
WHB-200A	AC 2001	0.044				
WKB-200A	AC 200V	0.04A				

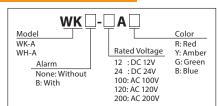
Dimensions

Sideways



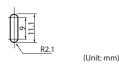


How to Order



B0 A C A A

Mounting Dimensions



A



Large Revolving Warning Light with a solid design.

FEATURES

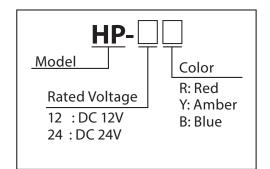
- Dome is made from superior weather-resistant and light-translucent acrylic resin.
- Main body is made of impact and heat resistant ABS resin.
- Available Voltages are DC 12V and DC 24V.
- Available Colors are Red, Amber, and Blue.
- Utilizes a Halogen Bulb (Sold Separately).

Specifications

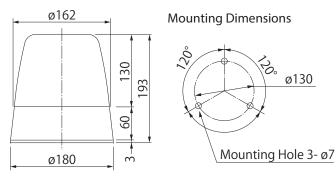
Model		Rated	Halogen Bulb	Flash Rate	Mass
		Voltage	Bulb sold seperately	(fpm)	
\bigcirc	HP-12	12V/24 DC	0.5A	160	1.01/0
0	HP-24	12V/24 DC	0.5A	100	1.0kg

O Available by Special Order

How to Order



Dimensions





Large lightweight Revolving Warning Light with dual-face reflector.

FEATURES

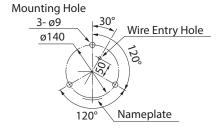
- · Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Main Body is made of a black resin for resistance against harsh weather and UV rays.
- Compact motor with high durability and energy-efficient characteristics.
- The red dome is made of AS resin; 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	Rated Current oltage Consumption	Flash Rate (fpm)	Bulb		Mass
Model	Voltage			Ratings	Repl. No.	IVIDSS
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

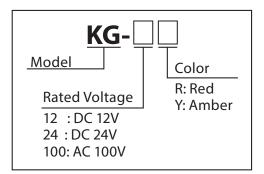
Dimensions

Mounting Dimensions



(Unit: mm)

How to Order





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

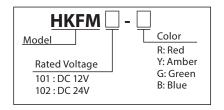
FEATURES

- · 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.

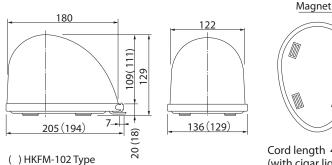
Specifications

Model	Rated Voltage	Current Consumption	Flash Rate (fpm)	Bulb	Mass
HKFM-101	DC 12V	2.9A	230	12V 35W	800 a
HKFM-102	DC 24V	1.9A	250	24V 55W	800g

How to Order



Dimensions





(with cigar lighter plug)



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.

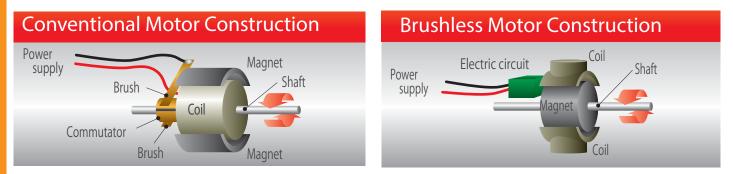
LED + Brushless Motor + Bearing Mechanism



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



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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-04-P-R	Color R : Red G : Green Y : Amber B : Blue	Mounting Dimensions Blank∶¢140 P∶¢120
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Passenger Car

4.5G (44.1m/s²)

Construction Machinery

7G (68.6m/s²)



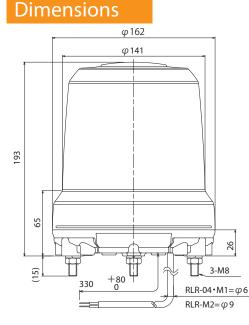
Emergency Vehicle

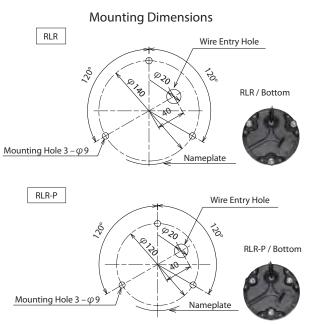


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Dump Trucks





(Unit: mm)

Specifications

Model	Rated Voltage	Operating Voltage Range	Vibration Resistance	Operating Temperature Range		Dome	Mass
RLR-M1	DC 12-24V	DC 9.5V - 15V	110m/s ²	-30 C - +70 C	-R	(Red)	1.0kg
RLR-04	DC 48V	DC 20V - 30V	(11G)	-30 C - +70 C	-Y -G	(Amber) (Green)	т.окд
RLR-M2	AC 90-250V	AC 90V - 250V	45m/s ² (4.5G)	-10 C - +50 C	-B	(Blue)	1.06kg

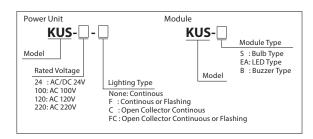


The KUS Series cube tower; uses advanced technology with a modular design to combine two different lights on one unit.

FEATURES

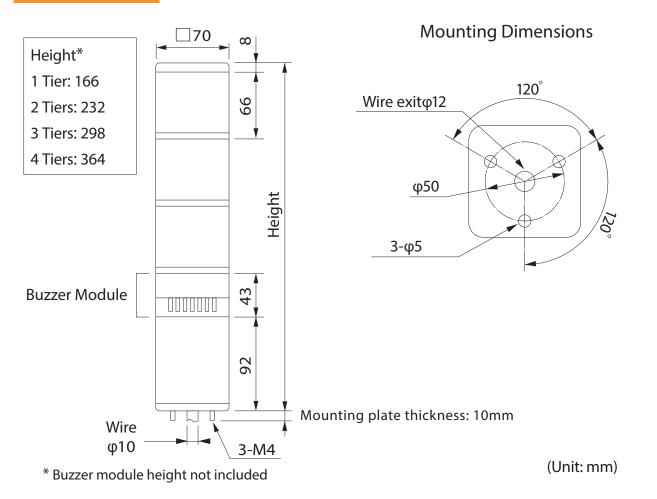
- Light modules can be stacked up to 4 tiers in any color combination.
- RoHS Compliance for Models KUS-24, KUS24F, KUS-EA-R/Y/G/B/C.
- Lenses are made of heat and shock resistant polycarbonate resin.
- Each light has a built-in dip switch to control the light on or off.
- Maximum power consumption of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

How to Order



Specifications

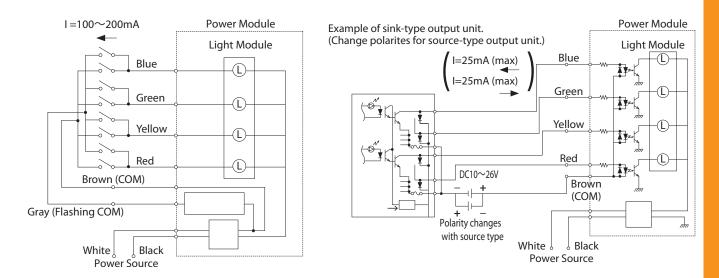
Power Unit	Model	Model Rated Voltage Power (Image) Model		Model	Rated	Power Consumption		ılb		
			Consumption	(model	Voltage		Ratings	Repl. No.
	KUS -24	AC/DC 24V				KUS-S (Bulb)		6W	24V 6W	19
Continuous	KUS -100	AC 100V		KUS-EA (LED)	DC 24V	R,Y: 1.2W; G,B,C: 0.9W	—	_		
Lighting	KUS -120	AC 120V			-					
	KUS -220	AC 220V								
	KUS -24 F	AC/DC 24V						AL CONTRACTOR OF A CONTRACTOR OFTA	The second second second second second second second second second second second second second second second s	THERE
Continuous	KUS -100 F	AC 100V	21W					110100000000000000000000000000000000000	COUNT	-
Lighting or Flashing	KUS -120 F	AC 120V								
	KUS -220 F	AC 220V								and the second second
	KUS -24 C	AC/DC 24V	2100							
Open-Collector	KUS -100 C	AC 100V								
Continuous Lighting	KUS -120 C	AC 120V			İΓ	Model	Rated	Power Consumption	Val	ume
	KUS -220 C	AC 220V				Model	Voltage	PowerConsumption		ume
On an Callastan	KUS -24 FC	AC/DC 24V			İΓ	KUS-B	DC 24V	0.5W	80dB (at 1m)
Open-Collector Continuous	KUS -100 FC	AC 100V							1111	
Lighting or Flashing	KUS -120 FC	AC 120V							00	
Fiashing	KUS -220 FC	AC 220V								



Wiring

Contact Input Type (KUS,KUS-F)

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



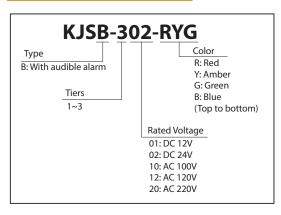


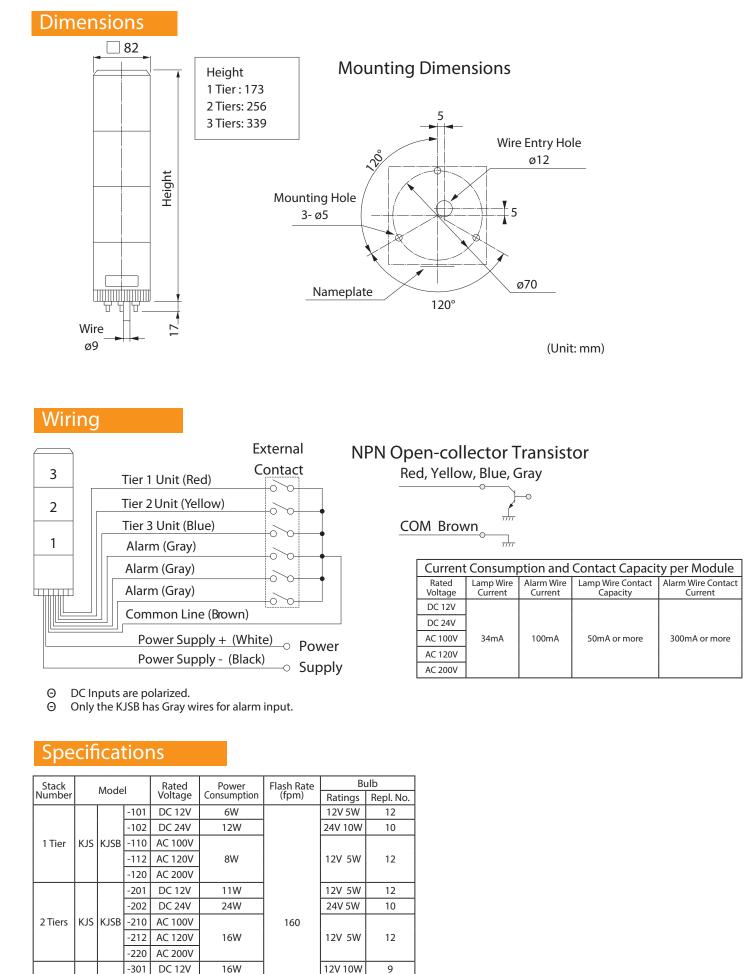
Lightweight Cube Tower featuring a built-in buzzer designed to fit applications for small equipment.

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.
- Installation is in the upright position only.
- Flashing cycle of 160 times/min.
- One spare bulb is included.

How to Order





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10

12

24V 10W

12V 5W

DC 24V

AC 100V

AC 120V

-302

-310

-312

KJSB

KJS

3 Tiers

35W

23W

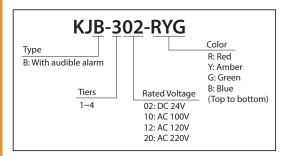


Lightweight Cube Tower featuring a built-in buzzer suitable for various indoor applications.

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.

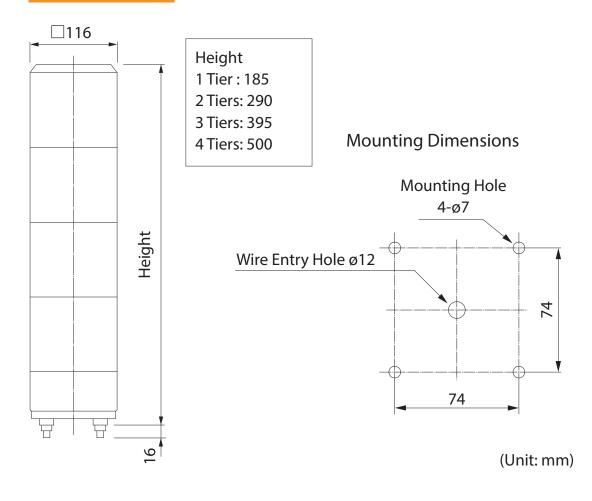
How to Order



Specifications

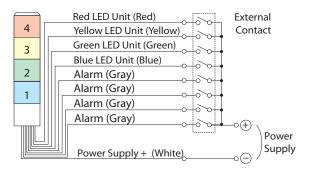
Stack		Mad	.1	Rated	Power	Flash Rate	Bu	ılb
Number		Mode	51	Voltage	Consumption	(fpm)	Ratings	Repl. No.
			-102	DC 24V	13.5W		24V 10W	10
1 Tier		КЈВ	-110	AC 100V	6W			
Ther	KJ		-112	AC 120V	7W]	12V 5W	12
			-120	AC 200V	5.5W			
			-202	DC 24V	25.54W		24V 5W	10
2 Tiers	КJ	КЈВ	-210	AC 100V	11W			
ZTIErs			-212	AC 120V	13W		12V 5W	12
			-220	AC 200V	9.9W	130		
		KJ KJB	-302	DC 24V	37.5W	150	24V 10W	10
3 Tiers			-310	AC 100V	16W	1		
STIERS	KJ		-312	AC 120V	18W]	12V 5W	12
			-320	AC 200V	14.3W	1		
			-402	DC 24V	49.5W]	24V 10W	10
4 Tiers	КJ		-410	AC 100V	21W			
4 ners		KJ KJB	-412	AC 120V	26W		12V 5W	12
			-420	AC 200V	18.7W			

Dimensions

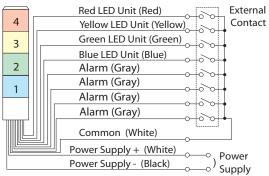


Wiring Diagram

KJ/KJB (24V DC)



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



 Θ KJ-110/112/120 are voltage-contact type, therefore have no alarm signal wires.

 Θ 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	4.6A	SA OL MOLE	JUINA	SUUTIA	

MEMO	

For more details, visit our website at http://www.patlite.com

LED Light



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.
- Seven lengths in the range from 100 to 1500mm 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).

Lumionous Color

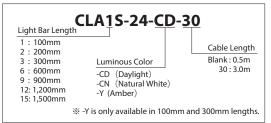
With a high-intensity Illumination, it is suitable for applications such as lighting-up processing machinery workspace or video inspection systems to help highlight more details, etc.



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

CLA-CN (Natural White: 4800K)

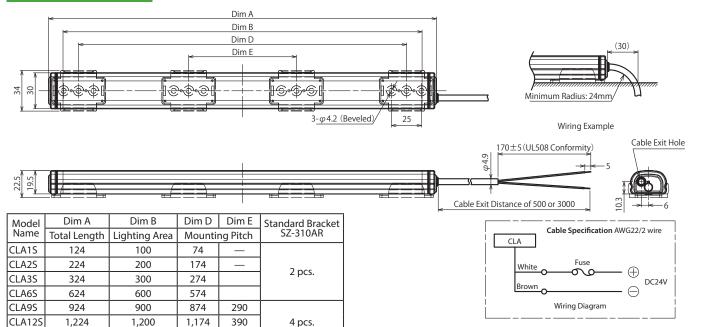
How to Order



CLA-CD (Daylight:6800K)

CLA-Y (Amber)





Options

CLA15S



1,524

1,500

1,474

490

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				140				
CLA1S -24 -CN	Natural White]			104mA	140			80g
CLA1S -24 -Y	Amber]				78			
CLA2S -24 -CD	Daylight				208mA	270			130g
CLA2S -24 -CN	Natural White				200111A	270			1509
CLA3S -24 -CD	Daylight					220	Polycarbonate II		
CLA3S -24 -CN	Natural White				240mA				180g
CLA3S -24 -Y	Amber	DC 24V	19.6 m/s ²	-40°C - +60°C				IP66/67/69K	
CLA6S -24 -CD	Daylight	(Polarized)	19.0 11/5	(RH 90% or less)	480mA				240~
CLA6S -24 -CN	Natural White]			400MA	650			340g
CLA9S -24 -CD	Daylight]			720mA	810			500g
CLA95 -24 -CN	Natural White]			720MA	010			500g
CLA12S -24 -CD	Daylight]			960mA	890			6600
CLA12S -24 -CN	Natural White				960MA	090			660g
CLA15S -24 -CD	Daylight				1 200m A	945			0200
CLA15S -24 -CN	Natural White				1,200mA	940			820g



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).

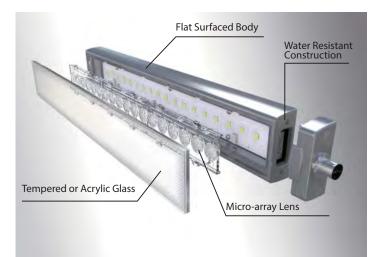
Specifications

Spec	ifications/Material		W	ater ar	nd Oil Resistar	nce/Alum	inum Alloy		Water and Chem SUS316 Sta	
Lens Ma	iterial				Tempere	d Glass			Specially-tre	eated Lens◊
Model		2S-AG	3S-AG	6S-AG	3C-AG	3CL-AG	6C-AG	6CL-AG	3C-SG	3C-SA
Lens Siz	e	200mm	300mm	600mm	300mm	1	600mm	ı	300	mm
LED	Daylight: 6,500K: CD									_
Color	Natural White: 5,000K: CN			Δ				—	—	
Center I	llumination (@1m)	820lx	1,200lx	2,100lx	1,2001x	(2,1001	(1,200lx	
Connec	tion Type	Side-ex	iting Cable,	L=0.5m	M12 Quick Disconnect M12 Daisy Link M12 Quick Disconnect M12 Daisy Link		M12 Daisy Link	M12 Quick Disconnect		
Power C	onsumption	8.4W	12.5W	25W	12.5W	V	25W		12.	5W
Rated V	oltage		<u> </u>			DC	12V (Poloarized)			
Operatin	g Temperature Range					-40°C - +	-60°C (RH 90% or	less)		
Protecti	on Rating		IP 66G/67G (IEC 60529)/IP69K (DIN 40050 Part 9)							
A Inquire before Ordering A: Specially treated lens has three layers embedded: PMMA Shatter proof Film Temp								pored Glass		

🛆 : Inquire before Ordering 💦 🕴 (Specially-treated lens has three layers embedded; PMMA, Shatter-proof Film, Tempered Glass

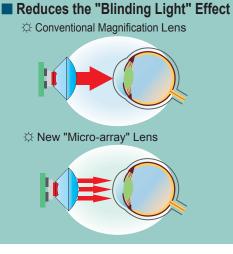
How to Order

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



Angled Body and Flat Surface

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



Reduces the "Blinding Light" Effect

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



One-touch Installation

Length

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)



200 mm				
300 mm	35 6000 3000	3C	3CL 5000 * Up to 4 units	SUS & Special Lens
600 mm	65 600		6CL sox	

For more details, visit our website at http://www.patlite.com

Alarm Products





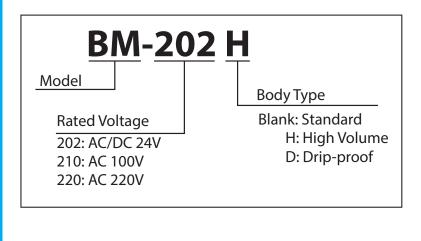


Compact Signal Horn designed to integrate with control panel, switchboard and other production equipment applications.

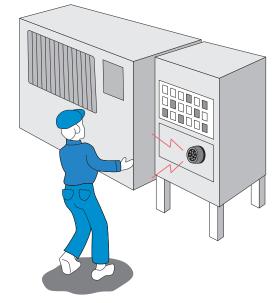
FEATURES

- 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)

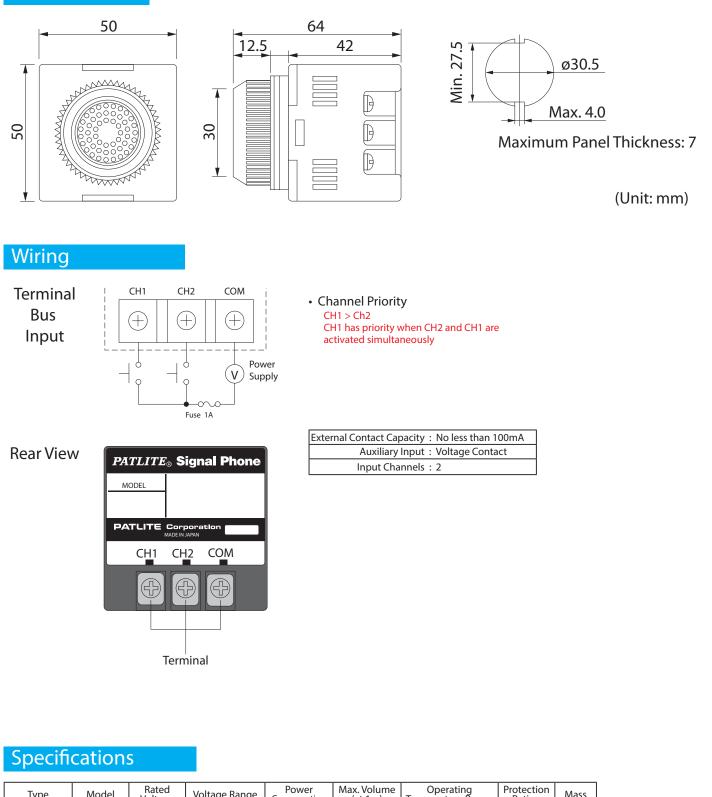
How to Order



Application Example



Dimensions



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	-10°C - +60°C (RH 85% or less)			
Standard	BM -210	AC 100V	AC 90V-110V	2.5W	85dB				
	BM -220	AC 220V	AC 200V-240V	3.5W	OSUD				
	BM -202H AC/DC 24V	AC/DC 22V-26V	0.4W	85dB			_	100g	
	BM -210H	AC 100V	AC 90V-110V	2.5W	90dB				
High Volume	BM -212H	AC 120V	AC 108V-132V						
	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	OUUB				

BM



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

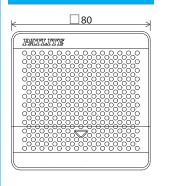
FEATURES

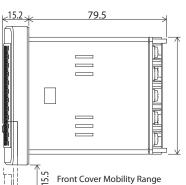
- Maximum output level of 90dB (at 1m) is suitable for use in a noisy factory.
- 32 pre-recorded sounds in one unit to be used for various applications.
- Sound output level and sound group can be selected by rotary switches stored behind the front panel for easier operation, even after installation.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

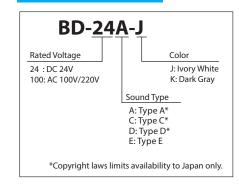
- Binary input controlled 15 sound playback model.
- PNP open collector transistor type.

Dimensions





How to Order





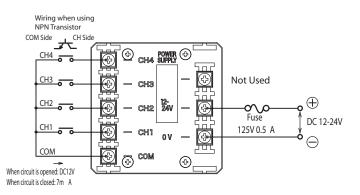
Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

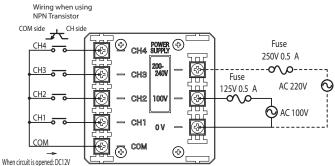
17.2

Mounting Hardware

(Unit: mm)

Wiring





When circuit is closed: 7m A

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	Chime	Call Sign
Fur Elise	Maiden's Prayer	Bach Minuet in Gmaj	Annie Laurie
London Bridge is falling down	Hol-di-ri-Dia	Mary had a little Lamb	Camptown Races
Cuckoo Song	Village Blacksmith	On the Bridge of Avignon	Daydream Believer
Amaryllis	Mozart Symphony No. 40	Quiet Lakeside	Ich bin ein Musikante
Spanish Romance	Katyusha	Grandfather's Clock	Ave Maria

Туре С			(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")	
l don't Wanna Miss a Thing	Yozorano Mukou	Aiwa Katsu	Haruyo Koi	
Gattsudaze	Odoru Ponpokorin	Imasugu Kisu Mi	Truth	

Type D			(Japan Only)	
Beep (slow intermittent)	Stutter (rapid intermittent)	Bell (clear high-pitch)	Yelp (rapid siren)	
Rapid Hi-Lo	Rapid Hi-Lo Melody Chime		Synthesized Bell	
Runner	Mamotte Agetai	Chime	Call Sign	
Iribiao Kikinagara	September	Doyoubino Koibito	Akino Kehai	
Saafu Tengoku Sukii Tengoku	Iro White-blend	Happy Birthday	Hi Ho	
I've been working on the Railroad	The Bear Song	Toys Go "Cha-cha-cha"	Konnako Irukana	
Schubert's Lullaby	Rudolph the red-nosed Reindeer	She Wore a Yellow Ribbon	My Darling, Clementine	
Yellow Rose of Texas	Yankee Doodle	When the Saints Go Marching In	Londonderry Air	

Type E			(Worldwide)
Beep (slow intermittent)	Stutter + Bell	Inverted Reveille	Annie Laurie
Stutter (rapid intermittent)	Melody Chime	Galactic Motor	London Bridge is falling down
Bell (clear high-pitch)	Chime	Ringing Phone	Mary had a little Lamb
Yelp (rapid siren)	Call Sign	Two Tone	Camptown Races
Rapid Hi-Lo	Train Ride	Alarm Clock	Amaryllis
Melody Chime	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-24	BD-100		
Rated Voltage	DC 12V - 24V	AC 100V/AC 220V (50/60Hz)		
Operating Voltage Range	DC 10.8V- 26.4V	AC 100V ±10%/AC 200V ±10%		
Operating Temperature Range	-20°C -	+50°C		
Relative Humidity	85% RH (No C	Condensation)		
Power Consumption	Maximum 4W	Maximum 6W		
Volume	Adjustable up to a maximum of 90dB (at 1m) when flushmo (Volume may be less, depending on surrounding environment and play			
Input Method	Bit Input			
Input Signal Duration	Continuous			
Boot-up Time	Input Voltage: 1 sec. or less Cha	nnel Signal Input: 170msec or less		
Channels	4 Cha	innels		
Recorded Sound	32 Melodies and Alarm Sounds			
Sound Group	16 Patter	ns (A to P)		
Protection Rating	IP54 (When flush-mounte	d, Upright direction Only)		
Vibration Resistance	19.6m/s ²			
Mass	205 g ±10%	325 g ±10%		

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.

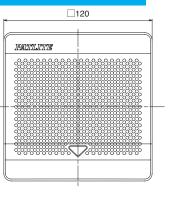


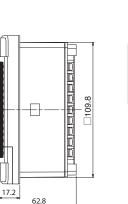
The BK Series can play melodies, chimes and alarms with variable audible control and a compact but loud speaker.

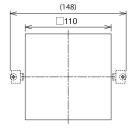
FEATURES

- 32 pre-recorded sounds in one unit to be used for various applications.
- Maximum output level of 90dB (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.

Dimensions



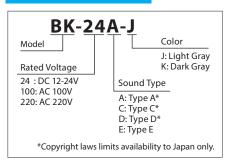




Mounting Dimensions

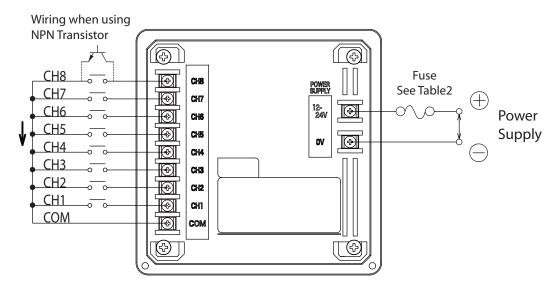
(Unit: mm)

How to Order





Wiring



Melody List

Type A			(Japan Only)
Beep (slow intermittent)	Stutter (rapid intermittent)	Bell (clear high-pitch)	Yelp (rapid siren)
Rapid Hi-Lo	Rapid Hi-Lo Melody Chime		Synthesized Bell
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	lch 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	Rapid Hi-Lo Melody Chime		Synthesized Bell	
Runner	Mamotte Agetai	Chime	Call Sign	
Iribiao Kikinagara	September	Doyoubino Koibito	Akino Kehai	
Saafu Tengoku Sukii Tengoku	Iro White-blend	Happy Birthday	Hi Ho	
I've been working on the Railroad	The Bear Song	Toys Go "Cha-cha-cha"	Konnako Irukana	
Schubert's Lullaby	Rudolph the red-nosed Reindeer	She Wore a Yellow Ribbon	My Darling, Clementine	
Yellow Rose of Texas	Yankee Doodle	When the Saints Go Marching In	Londonderry Air	

Туре С			(Japan Only)	
Beep (slow intermittent)	Stutter (rapid intermittent)	Bell (clear high-pitch)	Yelp (rapid siren)	
Rapid Hi-Lo	Rapid Hi-Lo Melody Chime		Synthesized Bell	
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")	
l don't Wanna Miss a Thing	Yozorano Mukou	Aiwa Katsu	Haruyo Koi	
Gattsudaze	Odoru Ponpokorin	lmasugu Kisu Mi	Truth	

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

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 200V ±10%		
Operating Temperature Range	-20°C - +50°C				
Relative Humidity	8	35% RH (No Condensation)		
Power Consumption	Maximum 4W	Maxim	um 5W		
Volume	Adjustable up to a maximum of 90dB (at 1m) when flushmound (Volume may be less, depending on surrounding environment and playback				
Input Method	Bit Input				
Input Signal Duration	Continuous				
Boot-up Time	Input Voltage: 1 sec.	or less Channel Signal In	put: 170msec or less		
Channels		4 Channels			
Recorded Sound	32	Melodies and Alarm Sour	nds		
Sound Group		16 Patterns (A to P)			
Protection Rating	IP54 (When flush-mounted, Upright direction Only)				
Vibration Resistance	19.6m/s ²				
Mass	205 g ±10%		±10%		

Use of Copyrighted Material

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Original wide horn design featuring a high volume of up to 105dB (at 1m), designed for use in noisy environments.

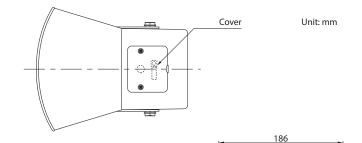
FEATURES

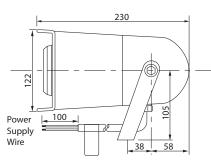
- Select 1 channel from the 32 pre-recorded sounds using the built-in DIP Switch.
- Enhanced for durability and safety in the work environment.
- Adjustable audible sound of up to 105dB (at 1m) with volume control.
- Indoor installation for upright, inverted and sideways position; upright only for outdoors. (Do not install with the horn facing upward).
- Has the CE mark and conforms to the requirements (for 12V, 24V type) for the CE directive.
- Anti-corrosive stainless steel mounting bracket makes installation easier.

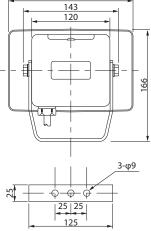
Specifications

I	Model	Rated Voltage	Voltage Range	Power Consumption	Protection Rating	Operating Temperature Range	Sound Pressure (at 1m)	External Contact Capacity	Channel Inputs	Mass			
	EWHS -24	AC/DC 12-24V	AC 8 - 28V DC 9 - 35V	8W	IP54 (IP65 by Special Order)	ID54	1054	IP54					1.2kg
EWHS	EWHS -48	DC 48V	DC 35 - 60V	10W		-20° C to $+60^{\circ}$ C	105dB	5A	1CH				
	EWHS -100	AC 100V	AC 90 - 132V	12W		85% RH or less		or more		1.41/0			
	EWHS -200	AC 200V	AC 180 - 260V	13W						1.4kg			

Dimensions



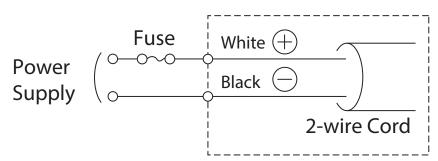




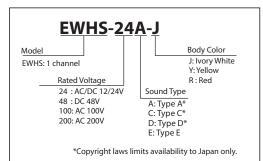
Туре А			(Japan Only)
Beep (slow intermittent)	Stutter (rapid intermittent)	Bell (clear high-pitch)	Yelp (rapid siren)
Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
Stutter + Bell	Synthesized Melody Chime	Chime	Call Sign
Fur Elise	Maiden's Prayer	Bach Minuet in Gmaj	Annie Laurie
London 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

Туре С			(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")		
l don't Wanna Miss a Thing	Yozorano Mukou	Aiwa Katsu	Haruyo Koi		
Gattsudaze	Odoru Ponpokorin	lmasugu Kisu Mi	Truth		

Wiring



How to Order



Use of Copyrighted Material

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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

EWHS

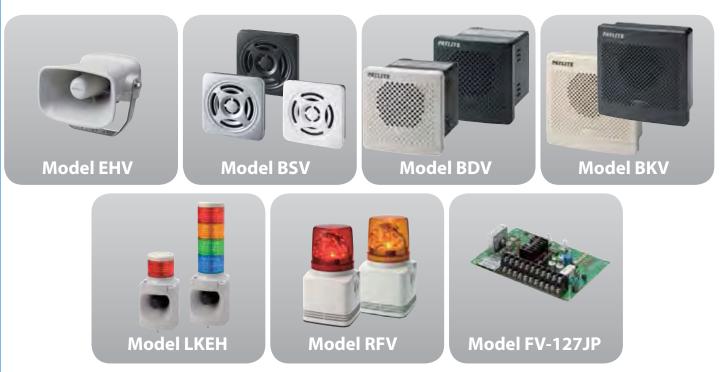
	ebsite at http://www.com/	

MEMO

Voice & Sound



MP3



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 SDV-2GP 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

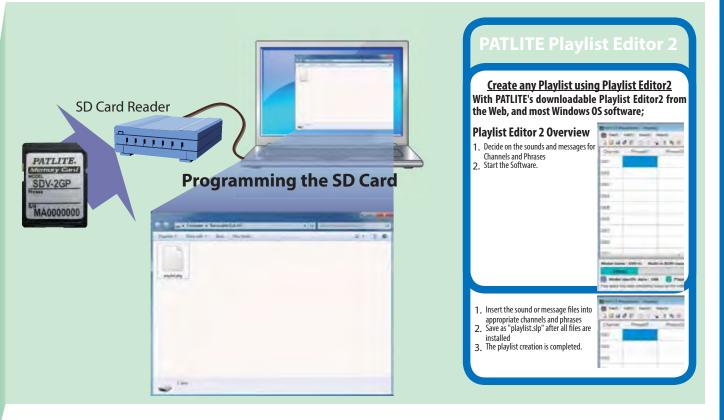
Save the MP3 messages on the SD Card

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).



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)

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.

Table: Corresponding Application Software

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.



Get the Playlist Editor

The Playlist Editor is still free from PATLITE. 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 SDV-2GP 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 64b/ sec for PATLITE products and the SD Card is formatted for "FAT16".)

STEP 4

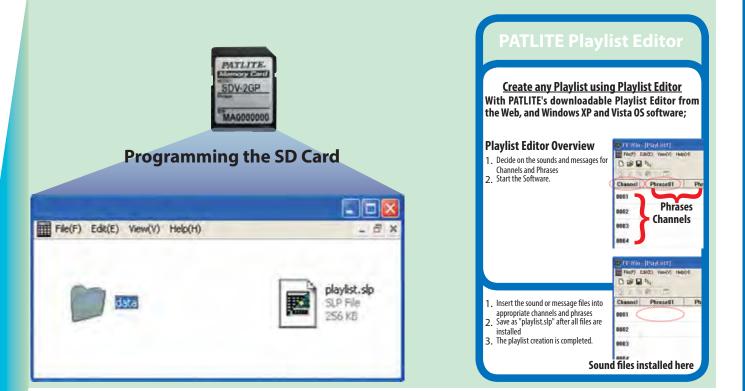
Save the MP3 messages on the SD Card

The Model BSV allows two methods for programming with MP3 Data. (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! Push the SD Card into the Product's SD Card slot and listen for the Beep that tells its programming (Refer to the product manual for detailed information on programming).



Example (BKV, LKEH)

- 1. Open the front cover. (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)

Please

- It is recommended to use Model SDV-2GP (sold separately). Using other SD Cards is not guaranteed for proper operation.
- Use "FAT16" when formatting the SD Card.
- 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.



The unbelievably thin design includes space-saving for equipment.

FEATURES

- Sound reduction is made with just one signal input. (When the sound reduction function is used, the number of playback messages is reduced.)
- 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.

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.



PATLITE Playlist Editor 2

(Free Download)

Easy turn of the screw to lock!

change the audio message data for this product.

> The SD Card does not contain any data.



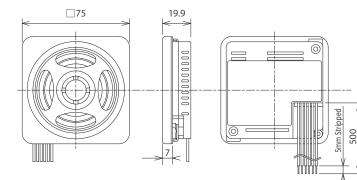
Options

SD Card (2 GB) SDV-2GP

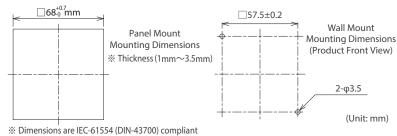




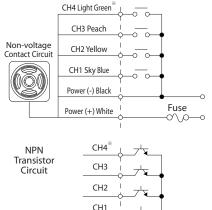
Dimensions

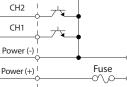


Mounting Dimensional Drawing

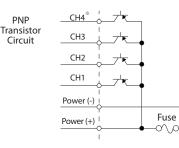


Wiring





Voltage Cht3 Peach --- CH3 Peach --- CH2 Yellow --- CH1 Sky Blue --- Power (-) Black --- Power (+) White Fuse



-0

How to Order





With the built-in SD card slot, MP3 data rewriting

can be done with an SD card. In addition to the optional message rewriting with the exclusive PATLITE Playlist Editor 2 Application software, Rewriting or editing MP3 data files is possible without the use of dedicated software.

Specifications

Transistor Type	Pre-recorded Data	Model	Front Cover Color	Rated Voltage	Operating Voltage Range	Power Consumption	Sound Level (Max.)	Operating Temperature Range	Maximum Playback Time	No. of Playback Inputs	Protection Rating	Mass
		BSV- 24NM- W	Off-white									
NPN	VOICE	BSV- 24NM- D	Dark Gray									
		BSV- 24NM- S	Silver				87dB -10 - +50°C (at 1m) (RH less than 85%)					
	ALARM	BSV- 24N- W	Off-white		2-24V 10.8V -							
		BSV- 24N- D	Dark Gray						63 sec.	Bit: 4 Binary: 15	IP54 (Flush-mount, Upright Position)	100g
		BSV- 24N- S	Silver	12-24V DC		3.5W						
		BSV- 24PM- W	Off-white		26.4V DC							
	VOICE	BSV- 24PM- D	Dark Gray								oprigrit i osition,	
PNP		BSV- 24PM- S	Silver									
		BSV- 24P- W	Off-white									
	ALARM	BSV- 24P- D	Dark Gray									
		BSV- 24P- S	Silver									

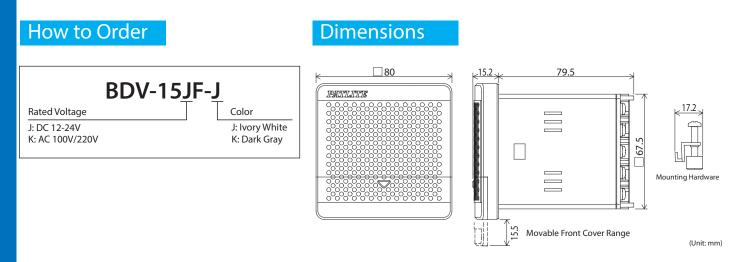
*Actual sound level will depend on sound type and surrounding operating conditions.



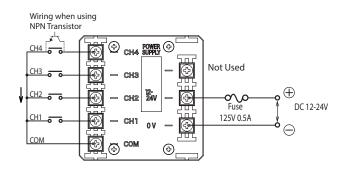
Excellent sound quality with MP3 playback! This panelmounted MP3 voice annunciator uses SD cards*, allowing messages to be changed easily. (*Recommended: SDV-2GP)

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)

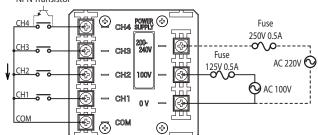


Wiring Diagram



NPN Transistor

Wiring when using



Playback Modes

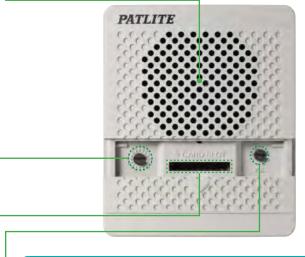
Mode Selector Switch

Several playback modes for a combination of applications.

A	Bit Input Mode	Plays back up to 4 messages using Channels 1 to 4.
В	Binary Input Mode	Plays back up to 15 messages using Channels 1 to 4.
С		Plays back up to 3 messages using Channels 1 to 3. When Channel 4 receives an input, the volume is reduced by about -10dB.
D	Binary Input/ Volume Reduction Mode	Plays back up to 7 messages using Channels 1 to 3. When Channel 4 receives an input, the volume is reduced by about -10dB.
E	Bit Input/ Priority Message Playback Mode	Plays back up to 7 messages using Channels 1 to 3. If a message input occurs during playback of another message, the message will stop and allow the input message to play back.
F	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.
G	Bit Input/ 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.
н	Binary Input/ 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.
 - P	Test Playback Mode	Plays back Message No. 1

Up to 87dB (at 1m)

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



Volume Control

The volume is easily accessable from the front for adjustment.

Memory Card Slot

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

Options

PATLITE Playlist Editor 2 (Free Download)

SD Card (2 GB)

SDV-2GP

(OS: Windows® 2000/XP/Vista/Windows 7/Windows 8) > The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.

> The SD Card does not contain any data.



Specifications

Model	Rated Voltage	Operating Voltage Range	Power Consumption	Sound Level (Max.)	Voice File	Operating Temperature Range	Maximum Playback Time	No. of Playback Inputs	Protection Rating	Mass
BDV-15JF	DC 12-24V	DC 10.8V - 26.4V	4W	074D*	MPEG- Audio Layer (MP3)	-10 - +50°C		Bit: 4	IDE 4	220g
BDV-15KF	AC 100/220V	AC 100V ±10% AC 220V±10%	5W	87dB* (at 1m)	Standard Bit Rate: 64kb/s Fs=44.1kHz	(RH less than 85%)	63 sec.		IP54 (Flush-mount)	340g

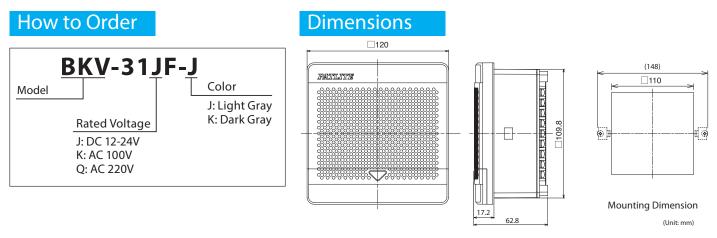
*Actual sound level will depend on sound type and surrounding operating conditions. Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com



Excellent sound quality with MP3 playback! This panelmounted 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)



Playback Modes

Mode Selector Switch

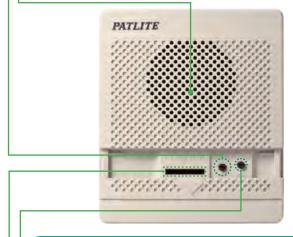
Several playback modes for a combination of applications.

A	Bit Input Mode	Plays back up to 5 messages using Channels 1 to 5.
В	Binary Input Mode	Plays back up to 31 messages using Channels 1 to 5.
с	Bit Input/ Volume Reduction Mode	Plays back up to 4 messages using Channels 1 to 4. When Channel 5 receives an input, the volume is reduced by about -15dB.
D	Binary Input/ Volume Reduction Mode	Plays back up to 15 messages using Channels 1 to 4. When Channel 5 receives an input, the volume is reduced by about -15dB.
E	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.
F	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.
G	Bit Input/ Hold Message Playback Mode	Plays back up to 5 messages using Channels 1 to 5. As long as the input is held on, the message is played back, once the input is removed, the message playback stops.
н	Binary Input/ 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.
І - Р	Test Playback Mode	Plays back Message No. 1

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.)

BKV



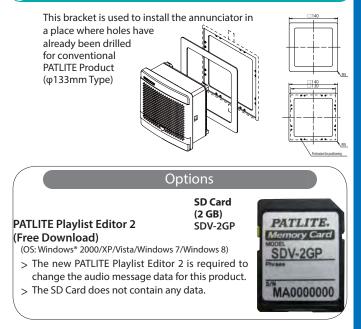
Volume Control

The volume is easily accessable from the front for adjustment.

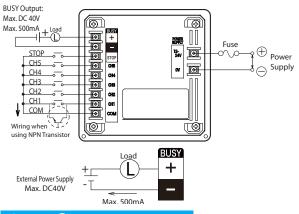
Memory Card Slot

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

Optional Bracket (BK-001)



Wiring



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		MPEG- Audio Layer (MP3)	10			1054	350g
BDV-31KF	AC 100V	AC 100V ±10%	10W	95dB (at 1m)	Standard Bit Rate: 64kb/s Fs=44 1kHz	-10 - +50°C	63 sec.	Bit: 5 Binary: 31	IP54 (Flush-mount)	520 m
BDV-15KF	AC 220V	AC 220V ±10%	TOW	(at IIII)	Fs=44.1kHz			billary. 51	(Hush-mount)	530g

*Actual sound level will depend on sound type and surrounding operating conditions.

FV-127JP MP3 File Playback Circuit Board





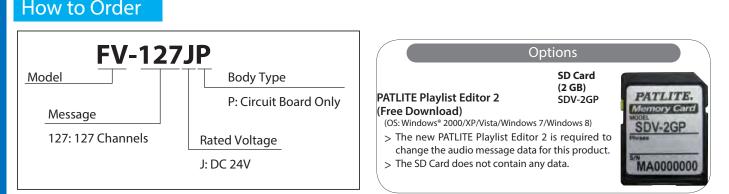
Audio messages can be registered up to 127 channels, ideal for various equipment or facility purpose where the audio message assistance is required.

FEATURES

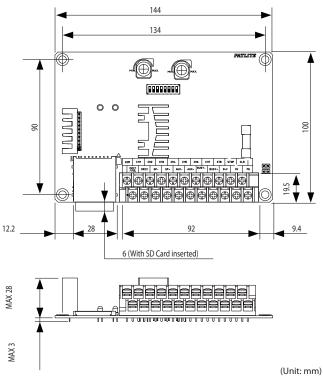
- High quality sound and long playback time.
- MP3 compressed audio file format enables long playback time and high quality sound.
- Approximately eight minutes worth of audio messages can be stored in the onboard memory.
- Capable of 240 minutes of message playback when using an SD card as external 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)



Dimensions

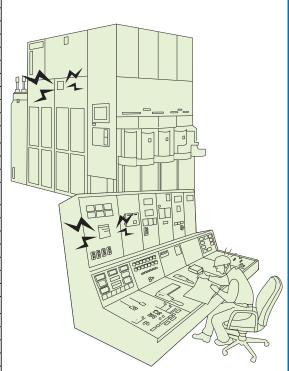


Playback Modes

Normal Playback	Designated audio message is played back by distinctive signal input. Audio message is played back once in case of one shot input, and audio message is repeated when the signal is input continuously.
Memory Playback	Up to 23 audio message inputs can be memorized in order of input. After one playback is finished, the next memorized audio message will be played back. The inputs exceeding the limit will not be memorized.
Latest Input and Greater Channel Priority Playback	When the signal for a greater channel number is input during the message playback, the audio message being played back will be stopped, and previous audio message input will be played back. When the signal for the same or smaller channel number is input, the signal will not be accepted.
Momentary Playback	Audio message is played back only while the signal input is maintained. Playback will be stopped when the signal input is stopped.
Latest Input Priority Playback	When the signal is input during the message playback, the audio message being played back will be stopped, and the previous audio message input will be played back.

Specifications

	General Specifications			
Model Name	FV-127JP			
Rated Voltage	DC 24V			
Operating Voltage Range	DC 19 to 29V			
Wiring Method	M3 Terminal Bus			
Power Consumption	Maximum 15W (1*)			
Operating Temperature Range	-10 to 50°C			
Storage Temperature	-40 to 80°C			
Relative Humidity	85% RH or less			
Operating Environment	Built-in Type Only			
Installation Method	4 Screw Tie-down			
Vibration Resistance	45m/s2 (30Hz forward and back/Left and right for 2hrs., up and down for 4hrs.)			
Mass	160g ±10%			
Outer Dimensions	144×100×28 [mm] (Lead Wires and Mounting Posts not included)			
	Audible Specifications			
Replay Message Number	For Binary: 127 For Bit Input: 7			
Audio File Format	MPEG1-Audio Layer: (MP3)			
Bit Rate	32kbit/s; 64kbit/s(Standard); 128kbit/s Fs=44.1kHz			
Maximum PlaybackTime	On-board Memory (4MB): About 8 min (Recorded with standard bit rate) External Memory (SD Card): With 128MB about 240 min. (Standard Bit Rate Recordin			
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)

This product complies with the RoHS directive (DIRECTIVE 2002/95/EC)

Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

FV-127JP

MEMO	

For more details, visit our website at http://www.patlite.com

Hybrid Products





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

FEATURES

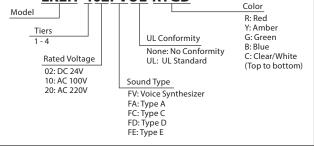
- The pre-recorded type offers 32 sounds in one unit with 8 bit input and 32 binary input channel capability.
- The message capacity for the LKEH-FV is 63 seconds (64kbit/s) with 5 bit input and 31 binary input channel capability.
- The LKEH-FV is field-programmable with an SD Card (sold separately).
- 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).

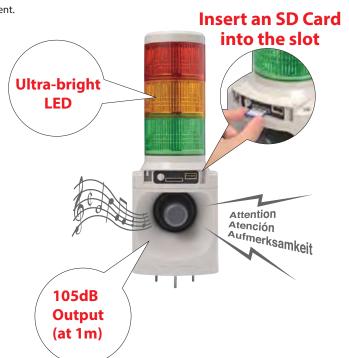
AVAILABLE BY SPECIAL ORDER

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

How to Order

LKEH-402FVUL-RYGB

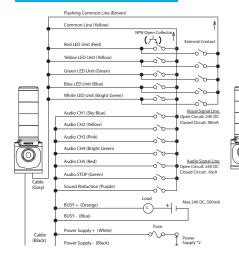




Use of Copyrighted Material

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.

Wiring



1	Flashing Common Line (Brown) Common Line (Yellow)			
	NPN Open Collector	T External		
	Red LED Unit (Red)	Contact		
	Yellow LED Unit (Orange)	*1		
	Green LED Unit (Green)	*1		
	Blue LED Unit (Blue)	*100		
	White LED Unit (Bright Green)	*1 0 0		
	Audio CH1 (Sky Blue)	Visual Signal Line:		
_	Audio CH2 (Yellow)	Open Circuit: 24V DC ^{*1} Closed Circuit: 90mA		
	Audio CH3 (Pink)	Audio Signal Line:		
5	Audio CH4 (Bright Green)	Open Circuit: 24V DC ^{*1} Closed Circuit: 6mA		
9/	Audio CH5 (Red)	closed circuit. Onix		
듿	Audio CH6 (Orange)	_		
Cable (Gray)	Audio CH7 (Green)			
(Gray)	Audio CH8 (Blue)			
	Sound Reduction (Purple)			
	Power Supply + (White) Fuse	DATUT		
Cable (Black)	Power Supply - (Black)	Power PATLIT		
	, i i i i i i i i i i i i i i i i i i i	(Free V		

Options

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



PATLITE.

SDV-2GV

MA0000000

ary Card

LKEH

Options

SD Card

SDV-2GP

(2 GB)

PATLITE Playlist Editor 2 (Free Version)

(OS: Windows® 2000/XP/Vista)

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

Sound 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

Туре С	(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")
l don't Wanna Miss a Thing	Yozorano Mukou	Aiwa Katsu	Haruyo Koi
Gattsudaze	Odoru Ponpokorin	Imasugu Kisu Mi	Truth

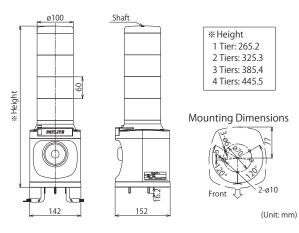
Specifications

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

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

Type E			(Worldwide)
Beep (slow intermittent)	Stutter + Bell	Inverted Reveille	Annie Laurie
Stutter (rapid intermittent)	Melody Chime	Galactic Motor	London Bridge is falling down
Bell (clear high-pitch)	Chime	Ringing Phone	Mary had a little Lamb
Yelp (rapid siren)	Call Sign	Two Tone	Camptown Races
Rapid Hi-Lo	Train Ride	Alarm Clock	Amaryllis
Melody Chime	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

Dimensions



(Note) 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. Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

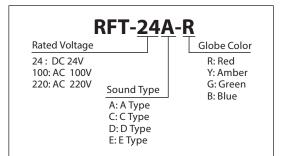


An LED Rotating Light with built-in alarm sounds controllable by binary or bit input for a maximum of 32 sounds!

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



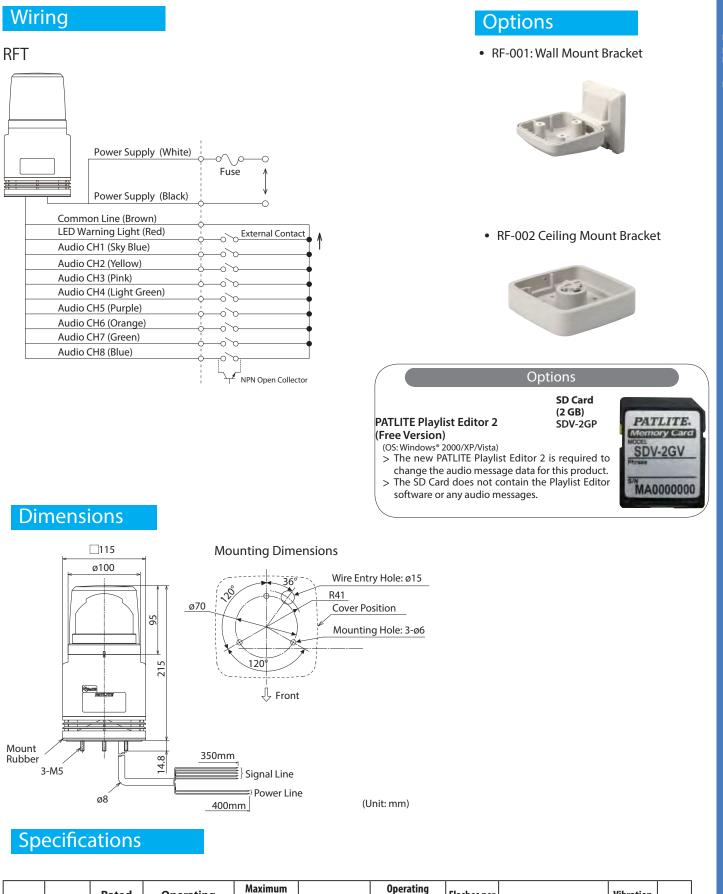
Type E			
Beep (slow intermittent)	Stutter + Bell	Inverted Reveille	Annie Laurie
Stutter (rapid intermittent)	Melody Chime	Galactic Motor	London Bridge is falling dow
Bell (clear high-pitch)	Chime	Ringing Phone	Mary had a little Lamb
Yelp (rapid siren)	Call Sign	Two Tone	Camptown Races
Rapid Hi-Lo	Train 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 Gmai	Grandfather's Clock

Side access design enables easy post-installation maintenance



The sound reduction function reduces the volume by approx. -10dB (at 1m), a feature ideal for use at night time together with a timer or sensor.





Model	Rated Voltage	Operating Voltage Range	Maximum Power Consumption	Sound Level	Operating Temperature Range	Flashes per Minute	Protection Rating	Vibration Resistance	Mass
RFT-24	DC 24V	DC 24V ±10%	12 W	Max. 90dB	-10°C - +50°C (85%RH or less) 1	115 ±15	IP54 (When Flush-mounted)		1.0kg
RFT-100	AC 100V	AC 100V ±10%	13 W					19.6m/s ²	1.2kg
RFT-220	AC 220V	AC 220V ±10%	13 W	(at TIT)					1.2Kg
F	RFT-24 RFT-100 RFT-220	Model Voltage RFT-24 DC 24V RFT-100 AC 100V RFT-220 AC 220V	Model Voltage Voltage Range RFT-24 DC 24V DC 24V ±10% RFT-100 AC 100V AC 100V ±10% RFT-220 AC 220V AC 220V ±10%	Model Rated Voltage Operating Voltage Range Power Consumption RFT-24 DC 24V DC 24V ±10% 12 W RFT-100 AC 100V AC 100V ±10% 13 W RFT-220 AC 220V AC 220V ±10% 13 W	Model Rated Voltage Operating Voltage Range Power Consumption Sound Level RFT-24 DC 24V DC 24V ±10% 12 W Max. 90dB (at 1m) RFT-220 AC 220V AC 220V ±10% 13 W (at 1m)	ModelRated VoltageOperating Voltage RangePower ConsumptionSound LevelTemperature Remerature RangeRFT-24DC 24VDC 24V ±10%12 W	ModelRated VoltageOperating Voltage RangePower ConsumptionSound LevelTemperature RemeasureFlashes per MinuteRFT-24DC 24VDC 24V ±10%12 WMax. 90dB (at 1m)-10°C - +50°C (85%RH or less)115 ±15	ModelRated VoltageOperating Voltage RangePower ConsumptionSound LevelTemperature RangeFlashes per MinuteProtection RatingRFT-24DC 24VDC 24V ±10%12 WMax. 90dB (at 1m)-10°C - +50°C (85%RH or less)115 ±15IP54 (When Flush-mounted)	Model Rated Voltage Operating Voltage Range Power Consumption Sound Level Max.90dB (at 1m) Flashes per Remerature Range Flashes per Minute Protection Rating Vibration Resistance 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

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.



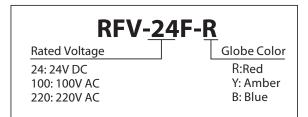
The RFV series is a combination of LED rotating beacon light and MP3 programmable sound unit.

FEATURES

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

AVAILABLE BY SPECIAL ORDERPNP open collector transistor type.

How to Order



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.

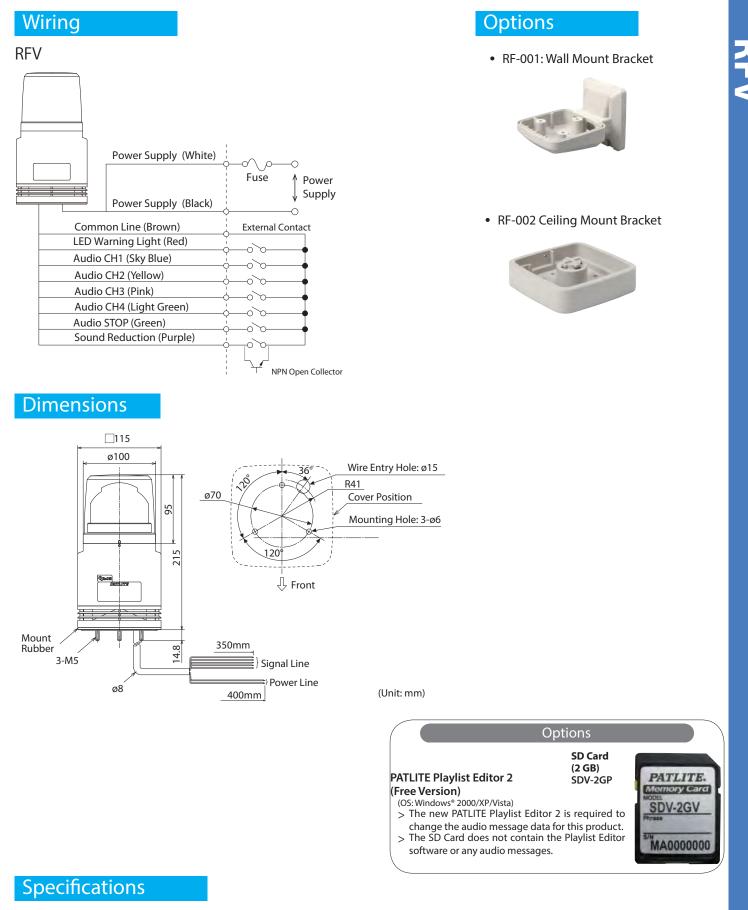


The sound reduction function reduces the volume by approx. -15dB (at 1m), a feature ideal for use at night time together with a timer or sensor.



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.



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		-10°C - +50°C (85%RH or less)		IP54 (When Flush-mounted)		1.0kg
RFV	RFV-100	AC 100V	AC 100V ±10%	16W					19.6m/s ²	1.2ka
	RFV-220	AC 220V	AC 220V ±10%	1000						T.2Kg
L			AC 220V $\pm 10\%$							1.2

Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

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.

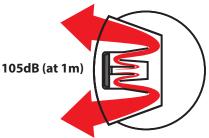


Large horn with revolving warning light featuring clear sound up to 105dB (at 1m).

FEATURES

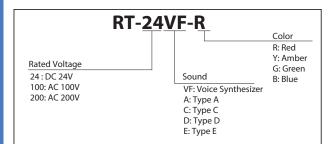
- Built-in Adjustable alarm with a sound of up to 105dB (at 1m).
- High sound quality with the MP3 voice synthesizer (RT-VF only).
- Installation is in the upright position only.
- Dome is made of superior weather-resistant and light-translucent acrylic resin.
- Available colors are Red, Amber, Green,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



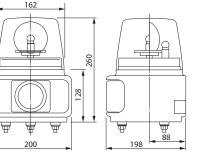




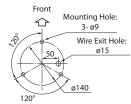
How to Order



Dimensions



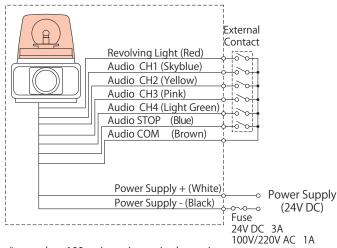
Mounting Dimensions



(Unit: mm)

Wiring

RT-A/C/D/E

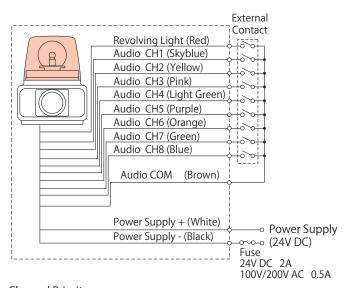


*more than 100ms input is required to activate.

Channel Priority:

4 (Light Green) > 3 (Pink) > 2 (Yellow) > 1 (Skyblue)

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



Channel Priority:

RT-FV

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	Power	Bu	lb	Sound	Operating	Rotations per	Sound	Channel	Mass	
Series	wouer	Voltage	Voltage Range	Consumption	Ratings	latings Repl. No. Level T		Temperature Range	Minute	Level	Input	IVIA55	
	RT-24VF	DC 24V	V DC 21 - 27V 24 W	24V 20W	55			115		D:+ 4	2.0kg		
Voice	RT-100VF	AC 100V	AC 90 - 100V	32 W	12V 15W	54	Max. 90dB (at 1m)		105		Bit: 4 Binary: 15	2.41/0	
	RT-220VF	AC 220V	AC180 - 240V	30 W	120 1300	54		-10°C - +50°C	95	Max. 105dB		2.4Kg	
	RT-24 🗌	DC 24V	DC 21 - 27V	24 W	24V 20W	55	Max. 95dB (at 1m)		(85%RH or less)	115	(at 1m)	D ¹¹ 0	2.0kg
Sound	RT-100 🗌	AC 100V	AC 90 - 100V	32 W	12V 15W	5W 54		-	105		Bit: 8 Binary: 32	2.5kg	
	RT-220 🗌	AC 220V	AC180 - 240V	30 W	120 1300				95			2.3KY	

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.

Sound Chart

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

Use of Copyrighted Material

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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.

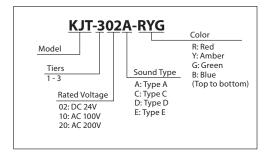
Sound Chart

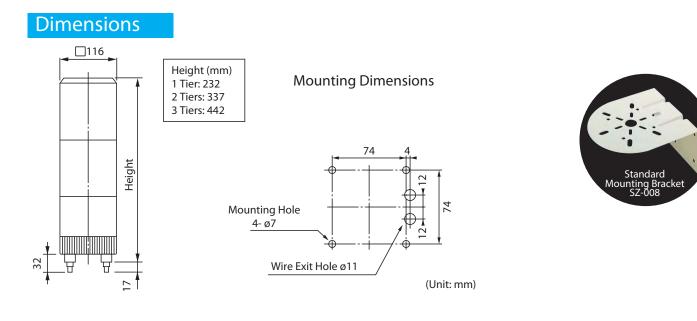
Туре Е			
Beep (slow intermittent)	Stutter + Bell	Inverted Reveille	Annie Laurie
Stutter (rapid intermittent) Melody Chime		Galactic Motor	London Bridge is falling down
Bell (clear high-pitch)	Chime	Ringing Phone	Mary had a little Lamb
Yelp (rapid siren)	Call Sign	Two Tone	Camptown Races
Rapid Hi-Lo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

Use of Copyrighted Material

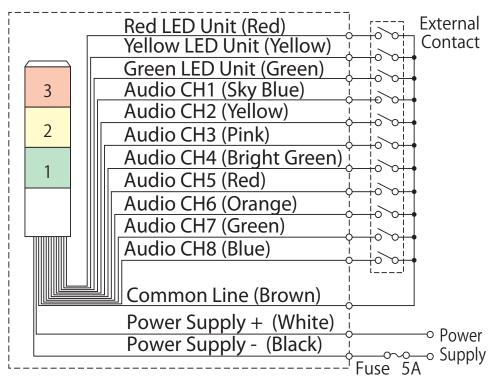
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How to Order





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		Data d Valta a a	Operating	Power	Bu	ılb	Rotations	Coursel Louvel	Operating	Channela	
			Rated Voltage	Voltage Range	Consumption	umption Ratings Repl. No.		per Minute	Sound Level	Temperature Range	Channels	Mass
		KJT- 102	24V AC/DC	AC/DC 21 - 27V	25W/18W	24V 10W	10	135				1.4kg
	1 Tier	KJT- 110	AC 100V	AC 90 - 110V	20W	12V 5W	12	120				1.7kg
		KJT- 120	AC 200V	AC 180 - 240V	2000	120 500	12	120	95dB (at 1m)			1.7 Kg
Alarm/		KJT- 202	24V AC/DC	AC/DC 21 - 27V	36W/28W	24V 10W	10	135		-20°C - +50°C		2.0kg
Melody	2 Tier	KJT- 210	AC 100V	AC 90 - 110V	26W	12V 5W	12	120		(85%RH or less)	I X(h I	2.4kg
livielouy		KJT- 220	AC 200V	AC 180 - 240V	2000	120 300	12	120		(03%101011853)		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	12 120				3.0kg
		KJT- 320	AC 200V	AC 180 - 240V			12					^{5.0Kg}

MEMO	

For more details, visit our website at http://www.patlite.com

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!

BEFORE····



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.



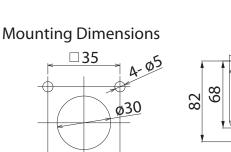
Join the connectors together.

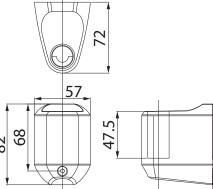


Hook the mounting bracket onto the metal tabs and attach it with the screws.

SZ-020 (For φ21.7mm Pole) SZ-021 (For φ17.3mm Pole)

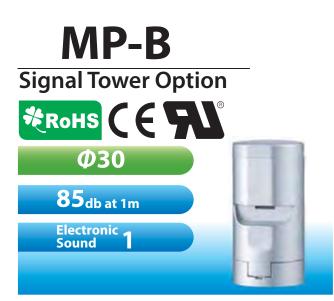








Wire connector SZ-020-001 (Sold Separately)



Sound Level

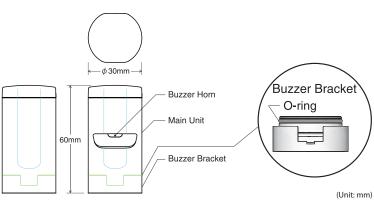
80dB (at 1m)

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)

Part Names and Dimensions

 Operates in conjunction with the Red LED module (Alarm activation with other colors must be special ordered).





LED Lamp

Specifications

MP-B AC/DC 24V

Model

Rated

Voltage

Requires Red LED Module



Power

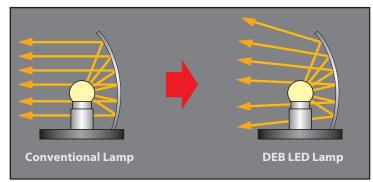
Consumption

0.7W

FEATURES

- LED Color emits a Warm White color
- Suitable lighting for Patlite Compatible Rotating Lamp Series.
- Replacable with AC Lamp Bulbs for Patlite Products.

COMPATIBLE MODELS: SKH-110A/120A, SKHB-100A/200A, SKH-100EA/200EA RH/RK(B)-100A/120AUL/200A/240AUL WH/WK(B)(S)-100A/200A KJS(B)-110/210/310/120/220/320 KJ(B)-110/210/310/410/120/220/320 KJT-110/210/310/120/220/320

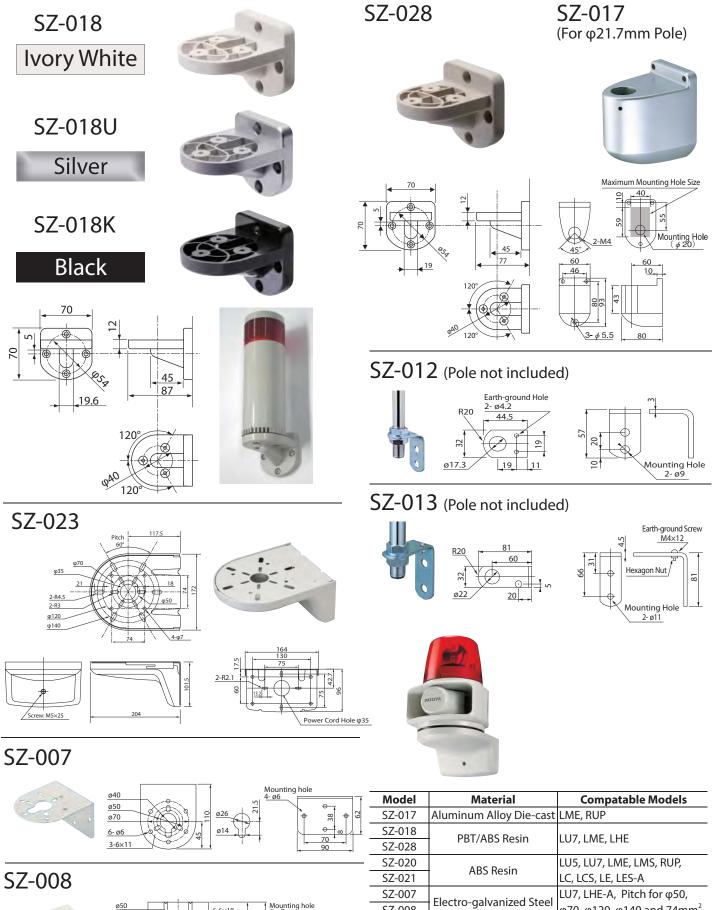


Specifications

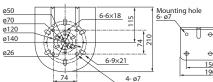
Model	Rated Voltage	Power Consumption	LED Color	Lamp Base	Mass
DEB-15SBA-CL	AC 12V	1.7W (at AC13.5V)	Warm White	BA15S	9.8g



Wall Mount Bracket

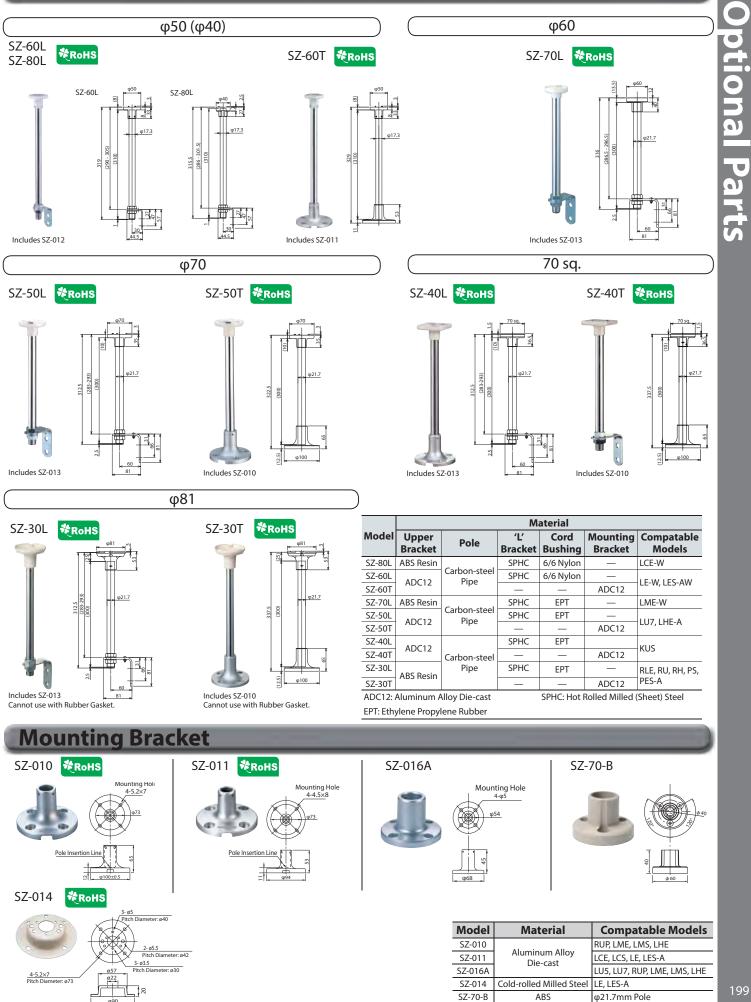


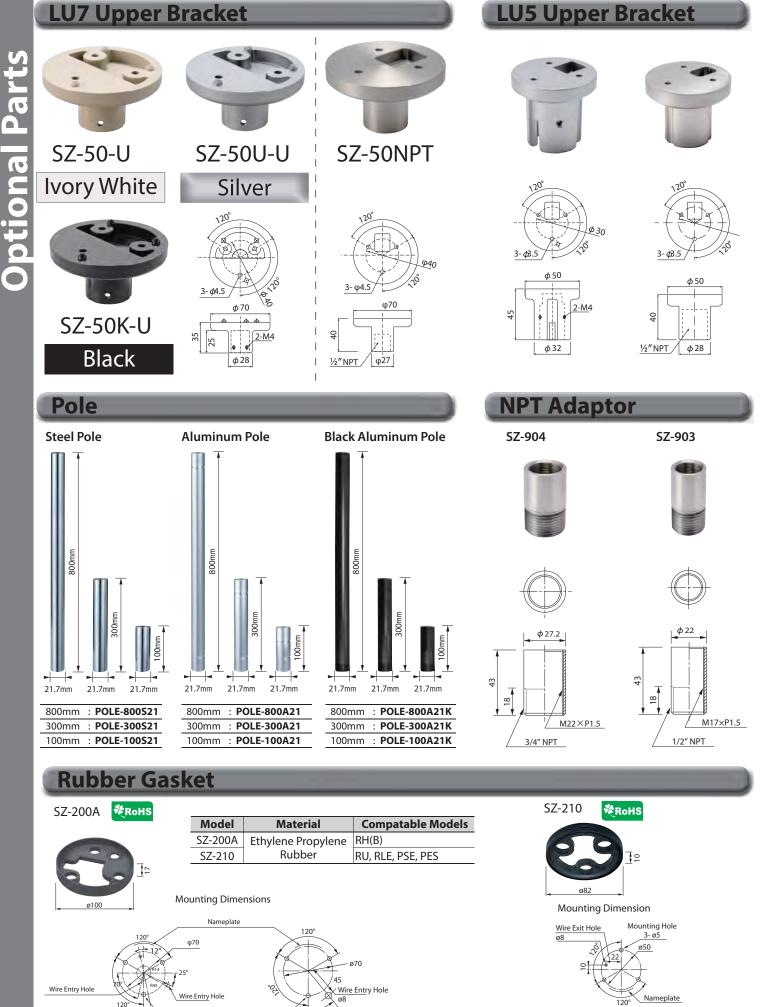




-	SZ-028	PBT/ABS Resin	LU7, LME, LHE		
	SZ-020	ABS Resin	LU5, LU7, LME, LMS, RUP,		
	SZ-021	ADS RESIT	LC, LCS, LE, LES-A		
-	SZ-007	Electro-galvanized Steel	LU7, LHE-A, Pitch for φ50,		
	SZ-008	r Electro-galvanized Steel	φ70, φ120, φ140 and 74mm ²		
57	SZ-023	Bracket: Steel	Pitch for φ50, φ70, φ120,		
100	32-023	Bracket Cover: ABS	φ140, and 74mm ²		
	SZ-012	Hot-rolled Mild Steel	LCE, LCS, LE, LES,		
	SZ-013	Hot-rolled Mild Steel	LME, ME, MP		

Mounting Pole



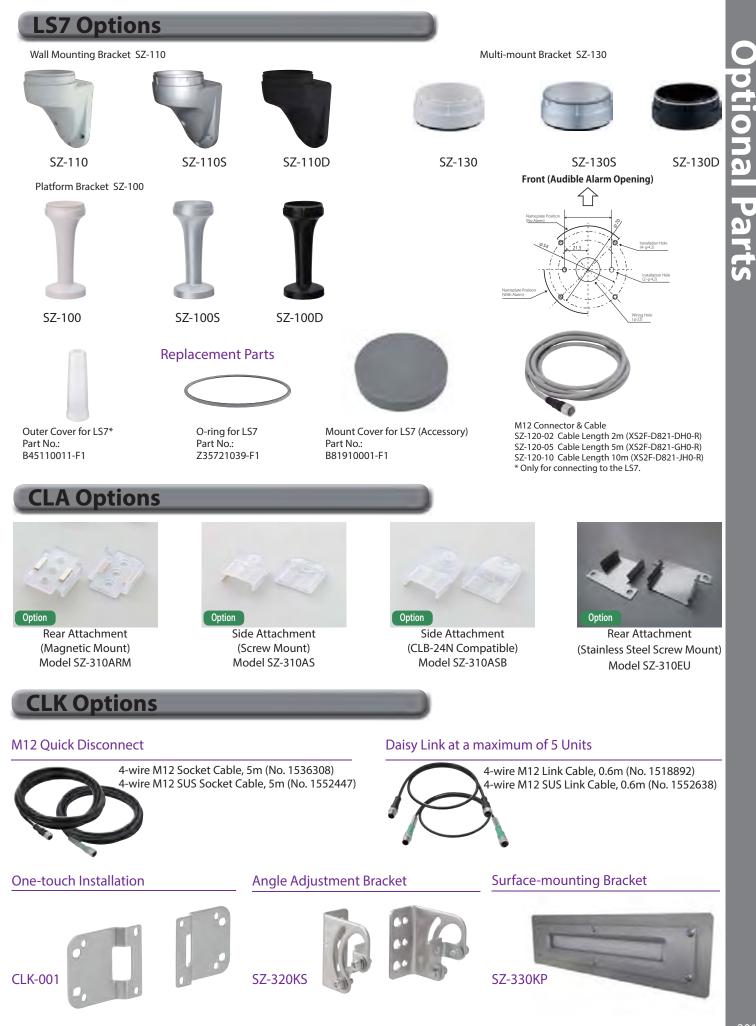


200

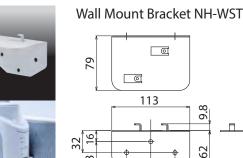
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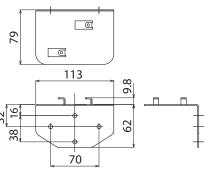
07

Mounting Hole 3- ø6



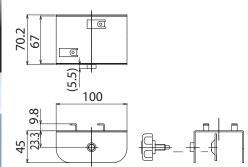
NHL Options





R5

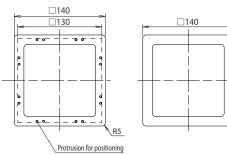
Partition Bracket NH-PST



BKV Options

BK-001 Size Adjustment Bracket

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

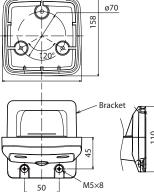


RFT/RFV Options

Wall Mount Bracket



RF-001 Wall Mount Bracket 100

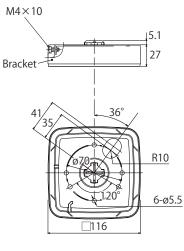


(Unit: mm)

Ceiling Mount Bracket



RF-002 Ceiling Mount Bracket







Courtesy of Steven Engineering, Inc. - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

(Unit: mm)

Melody Charts

Type A			(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

Туре С			(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")
l don't Wanna Miss a Thing	Yozorano Mukou	Aiwa Katsu	Haruyo Koi
Gattsudaze	Odoru Ponpokorin	Imasugu Kisu Mi	Truth

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

Type E (Worldwid							
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				

Type-F				(Japan Only)
Beep (slow intermittent)	Spring Melody	A Maiden's Prayer	Quiet Lakeside	BANZAI SUKIDE YOKATTA
Stutter (rapid intermittent)	Game Intermission	Bach Minuet in Gmaj	The Music Man	NAMONAKI UTA
Bell (clear high-pitch)	Jalopy Horn	Annie Laurie	Spanish Romance	SOUSEINO AKUERION
Yelp (rapid siren)	ET Doorbell	London Bridge is falling down	Katyusha	MAMBO NO 5
Rapid Hi-Lo	RR-crossing	Holdiridia	Ave Maria	The Parade of the Tin Soldiers
Melody Chime	Digital Train Whistle	Mary had a little Lamb	Grandfather's Clock	Turkey in the 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	

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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	

Model	Bulb No.	Ratings	Part No.	Model	Bulb No.	Ratings	Part No.
	1	12V 35W	D01203501-F1	Vibration Resistant	39	28V 11W	D02801111-F1
RP35/BA15S	2	24V 35W	D02403501-F1		40	110V 12W	D11001211-F1
	r.	Ratings 12V 35W 24V 35W 48V 35W	D04903503 51	 T20/BA15D	41	250V 11W	D25001111-F1
RP35/BA15D	S	480 3300	D04803502-F1		42	12V 23W	D01202305-F1
\frown	8	6V 3W	D00600303-F1				
	9	12V 10W	D01201003A-F1	S25/BA15S	43	24V 25W	D02402505-F1
0	10	24V 10W	D02401003A-F1	Vibration			
	11	48V 10W	D04801003-F1	Resistant			
G18/BA15S	12	12V 5W	D01200503A-F1				
	13	30V 10W	D03001006A-F1		50	28V 20W	D02802011-F
	14	110V 10W	D11001006A-F1				
	15	220V 10W	D22001006A-F1				
Ę į	16	110V 15W	D11001506A-F1	T20/BA15D Vibration			
T20/E12	17	220V 15W	D22001506A-F1	Resistant	F1	110/ 2014	D11002011 F
	18	12V 6W	D01200604-F1		51	110V 20W	D11002011-F
G14/BA9S	19	24V 6W	D02400604-F1		53	250V 20W	D25002011-F
	22	110V 3W	D11000307-F1	T20/BA15D			
	27	12V 0.11A	D012/1107-F1		54	12V 15W	D012001503-F
T10/E10	28	24V 0.11A	D024/1107-F1	G18/BA15S	55	24V 20W	D02402003-F
	36	120V 40W (Vibration Resistant)	D12004024-F1				
RP35/BA15D	37	220V 30W	D22003024-F1		9	AC12V (50/60Hz) 1.7W (at 13.5VAC)	DEB-15SBA-C

discontinuation without prior notice.



ecommended Product For more details on Model DEB Refer to the "Replacement Bulb" Section at the end of this Catalog

UL Certification Model Model Comparison Table

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Model	UL Registration Model	Model	UL Registration Model	Model	UL Registration Model
ME-102A	ME02A	LCE-1M2AFBW	LCEM2AFBW	LE-102FBW	LE02FBW
ME-202A	 ME02A	LCE-2M2AFBW	LCEM2AFBW	LE-202FBW	 LE02FBW
ME-302A	 ME02A	LCE-3M2AFBW	LCEM2AFBW	LE-302FBW	 LE02FBW
ME-402A	 ME02A	LCE-4M2AFBW	LCE- M2AFBW	LE-402FBW	LE02FBW
ME-502A	ME02A	LCE-5M2AFBW	LCE- M2AFBW	LE-502FBW	LE02FBW
MES-102A	MES02A	LCS-102A	LCS02A	LFH-12	LFH-12
MES-202A	MES02A	LCS-202A	LCS02A	LFH-24	LFH-24
MES-302A	MES02A	LCS-302A	LCS02A	LFH-48	LFH-48
MES-402A	MES02A	LCS-402A	LCS- 02A	LFH-M2	LFH-M2
MES-502A	MES02A	LCS-502A	LCS02A	LME-102	LME02
MP-102	MP- 02	LCS-102AK	LCS02AK	LME-202	LME02
MP-202	MP- 02	LCS-202AK	LCS02AK	LME-302	
MP-302	MP02	LCS-302AK	LCS02AK	LME-402	LME02
MP-402					LME02
	MP02	LCS-402AK	LCS02AK	LME-502	LME02
MP-502	MP02	LCS-502AK	LCS02AK	LME-102L	LME02L
MPS-102	MPS02	LES-102A	LES02A	LME-202L	LME02L
MPS-202	MPS02	LES-202A	LES02A	LME-302L	LME02L
MPS-302	MPS02	LES-302A	LES02A	LME-402L	LME02L
MPS-402	MPS02	LES-402A	LES02A	LME-502L	LME02L
MPS-502	MPS02	LES-502A	LES02A	LME-102W	LME02W
LCE-102A	LCE02A	LES-102AW	LES02AW	LME-202W	LME02W
LCE-202A	LCE02A	LES-202AW	LES02AW	LME-302W	LME02W
LCE-302A	LCE02A	LES-302AW	LES02AW	LME-402W	LME02W
LCE-402A	LCE02A	LES-402AW	LES02AW	LME-502W	LME02W
LCE-502A	LCE02A	LES-502AW	LES02AW	LME-102FB	LME02FB
LCE-1M2A	LCEM2A	LE-101P	LE01P	LME-202FB	LME02FB
LCE-2M2A	LCEM2A	LE-201P	LE01P	LME-302FB	LME02FB
LCE-3M2A	LCEM2A	LE-301P	LE01P	LME-402FB	LME02FB
LCE-4M2A	LCEM2A	LE-401P	LE01P	LME-502FB	LME02FB
LCE-5M2A	LCEM2A	LE-501P	LE01P	LME-102FBL	LME02FBL
LCE-102AW	LCE02AW	LE-102P	LE02P	LME-202FBL	LME02FBL
LCE-202AW	LCE02AW	LE-202P	 LE02P	LME-302FBL	LME02FBL
LCE-302AW	LCE02AW	LE-302P	 LE02P	LME-402FBL	LME02FBL
LCE-402AW	LCE02AW	LE-402P	LE02P	LME-502FBL	LME02FBL
LCE-502AW	LCE02AW	LE-502P	LE- 02P	LME-102FBK	LME02FBK
LCE-1M2AW	LCEM2AW	LE-101W	LE01W	LME-202FBK	LME02FBK
LCE-2M2AW	LCEM2AW	LE-201W	LE01W	LME-302FBK	LME02FBK
LCE-3M2AW	LCEM2AW	LE-301W	LE01W	LME-402FBK	LME02FBK
LCE-4M2AW	LCEM2AW	LE-401W	LE01W	LME-502FBK	LME02FBK
LCE-5M2AW	LCEM2AW	LE-501W	LE01W	LME-102FBW	LME02FBW
					i i i i i i i i i i i i i i i i i i i
LCE-102AFB	LCE02AFB LCE- 02AFB	LE-102W	LE02W LE02W	LME-202FBW	LME02FBW LME02FBW
LCE-202AFB	=	LE-202W		LME-302FBW	
LCE-302AFB	LCE02AFB	LE-302W	LE02W	LME-402FBW	LME02FBW
LCE-402AFB	LCE02AFB	LE-402W	LE02W	LME-502FBW	LME02FBW
LCE-502AFB	LCE02AFB	LE-502W	LE02W	LME-112	LME12
LCE-1M2AFB	LCEM2AFB	LE-101FBP	LE01FBP	LME-212	LME12
LCE-2M2AFB	LCEM2AFB	LE-201FBP	LE01FBP	LME-312	LME12
LCE-3M2AFB	LCEM2AFB	LE-301FBP	LE01FBP	LME-412	LME12
LCE-4M2AFB	LCEM2AFB	LE-401FBP	LE01FBP	LME-512	LME12
LCE-5M2AFB	LCEM2AFB	LE-501FBP	LE01FBP	LME-112L	LME12L
LCE-102AFBK	LCE02AFBK	LE-102FBP	LE02FBP	LME-212L	LME12L
LCE-202AFBK	LCE02AFBK	LE-202FBP	LE02FBP	LME-312L	LME12L
LCE-302AFBK	LCE02AFBK	LE-302FBP	LE02FBP	LME-412L	LME12L
LCE-402AFBK	LCE02AFBK	LE-402FBP	LE02FBP	LME-512L	LME12L
LCE-502AFBK	LCE02AFBK	LE-502FBP	LE02FBP	LME-112W	LME12W
LCE-102AFBK	LCEM2AFBK	LE-101FBW	LE01FBW	LME-212W	LME12W
LCE-202AFBK	LCEM2AFBK	LE-201FBW	LE01FBW	LME-312W	LME12W
LCE-302AFBK	LCEM2AFBK	LE-301FBW	 LE01FBW	LME-412W	 LME12W
LCE-402AFBK	LCEM2AFBK	LE-401FBW	 LE01FBW	LME-512W	 LME12W
	LCEM2AFBK	LE-501FBW	LE01FBW	1	-

Model	UL Registration Model	Model	UL Registration Model	Model	UL Registration Model
LME-112FB	LME12FB	LME-102UW	LME02UW	LME-112UFBK	LME12UFBK
LME-212FB	LME12FB	LME-202UW	LME02UW	LME-212UFBK	LME12UFBK
LME-312FB	LME12FB	LME-302UW	LME02UW	LME-312UFBK	LME12UFBK
LME-412FB	LME12FB	LME-402UW	LME02UW	LME-412UFBK	LME12UFBK
LME-512FB	LME12FB	LME-502UW	LME- 02UW	LME-512UFBK	LME12UFBK
LME-112FBL	LME12FB	LME-102UFB	LME02UFB	LME-112UFBW	LME12UFBW
			LME02UFB		
LME-212FBL	LME12FBL	LME-202UFB		LME-212UFBW	LME12UFBW
LME-312FBL	LME12FBL	LME-302UFB	LME02UFB	LME-312UFBW	LME12UFBW
LME-412FBL LME-512FBL	LME12FBL LME12FBL	LME-402UFB LME-502UFB	LME02UFB LME02UFB	LME-412UFBW LME-512UFBW	LME12UFBW
			LME- 02UFBL		LME12UFBW
LME-112FBK	LME12FBK	LME-102UFBL		LME-123U	LME23
LME-212FBK	LME12FBK	LME-202UFBL	LME02UFBL	LME-223U	LME23
LME-312FBK	LME12FBK	LME-302UFBL	LME02UFBL	LME-323U	LME23
LME-412FBK	LME12FBK	LME-402UFBL	LME02UFBL	LME-423U	LME23
LME-512FBK	LME12FBK	LME-502UFBL	LME02UFBL	LME-523U	LME23
LME-112FBW	LME12FBW	LME-102UFBK	LME02UFBK	LME-123UL	LME23UL
LME-212FBW	LME12FBW	LME-202UFBK	LME02UFBK	LME-223UL	LME23UL
LME-312FBW	LME12FBW	LME-302UFBK	LME02UFBK	LME-323UL	LME23UL
LME-412FBW	LME12FBW	LME-402UFBK	LME02UFBK	LME-423UL	LME23UL
LME-512FBW	LME12FBW	LME-502UFBK	LME02UFBK	LME-523UL	LME23UL
LME-123	LME23	LME-102UFBW	LME02UFBW	LME-123UW	LME23UW
LME-223	LME23	LME-202UFBW	LME02UFBW	LME-223UW	LME23UW
LME-323	LME23	LME-302UFBW	LME02UFBW	LME-323UW	LME23UW
LME-423	LME23	LME-402UFBW	LME02UFBW	LME-423UW	LME23UW
LME-523	LME23	LME-502UFBW	LME02UFBW	LME-523UW	LME23UW
LME-123L	LME23L	LME-112U	LME12U	LME-123UFB	LME23UFB
LME-223L	LME23L	LME-212U	LME12U	LME-223UFB	LME23UFB
LME-323L	LME23L	LME-312U	LME12U	LME-323UFB	LME23UFB
LME-423L	LME23L	LME-412U	LME12U	LME-423UFB	LME23UFB
LME-523L	LME23L	LME-512U	LME12U	LME-523UFB	LME23UFB
LME-123W	LME23W	LME-112UL	LME12UL	LME-123UFBL	LME23UFBL
LME-223W	LME23W	LME-212UL	LME12UL	LME-223UFBL	LME23UFBL
LME-323W	LME23W	LME-312UL	LME12UL	LME-323UFBL	LME23UFBL
LME-423W	LME23W	LME-412UL	LME12UL	LME-423UFBL	LME23UFBL
LME-523W	LME23W	LME-512UL	LME12UL	LME-523UFBL	LME23UFBL
LME-123FB	LME23FB	LME-112UW	LME12UW	LME-123UFBK	LME23UFBK
LME-223FB	LME23FB	LME-212UW	LME12UW	LME-223UFBK	LME23UFBK
LME-323FB	LME23FB	LME-312UW	LME12UW	LME-323UFBK	LME23UFBK
LME-423FB	LME23FB	LME-412UW	LME12UW	LME-423UFBK	LME23UFBK
LME-523FB	LME23FB	LME-512UW	LME12UW	LME-523UFBK	LME23UFBK
LME-123FBL	LME23FBL	LME-112U	LME12U	LME-123UFBW	LME23UFBW
LME-223FBL	LME23FBL	LME-212U	LME12U	LME-223UFBW	LME23UFBW
LME-323FBL	LME23FBL	LME-312U	LME12U	LME-323UFBW	LME23UFBW
LME-423FBL	LME23FBL	LME-412U	LME- 12U	LME-423UFBW	LME23UFBW
LME-523FBL	LME23FBL	LME-512U	LME12U	LME-523UFBW	LME23UFBW
LME-123FBK	LME23FBK	LME-112UL	LME12UL	LME-102N	LME02N
LME-223FBK	LME23FBK	LME-212UL	LME12UL	LME-202N	LME02N
LME-323FBK	LME23FBK	LME-312UL	LME12UL	LME-302N	LME02N
LME-423FBK	LME23FBK	LME-412UL	LME12UL	LME-402N	LME02N
LME-523FBK	LME23FBK	LME-512UL	LME12UL	LME-502N	LME02N
LME-123FBW	LME- 23FBW	LME-112UW	LME12UW	LME-102NL	LME02NL
LME-223FBW	LME23FBW	LME-212UW	LME12UW	LME-202NL	LME02NL
LME-323FBW	LME23FBW	LME-312UW	LME12UW	LME-302NL	LME02NL
LME-423FBW	LME23FBW	LME-412UW	LME12UW	LME-402NL	LME02NL
LME-523FBW	LME23FBW	LME-512UW	LME12UW	LME-502NL	LME02NL
LME-102U	LME02U	LME-112UFB	LME12UFB	LME-102NW	LME02NW
LME-202U	LME02U	LME-212UFB	LME12UFB	LME-202NW	LME02NW
LME-302U	LME02U	LME-312UFB	LME12UFB	LME-302NW	LME02NW
LME-402U	LME02U	LME-412UFB	LME12UFB	LME-402NW	LME02NW
LME-502U	LME02U	LME-512UFB	LME12UFB	LME-502NW	LME02NW
LME-102UL	LME02UL	LME-112UFBL	LME12UFBL	LME-102NFB	LME02NFB
LME-202UL	LME02UL	LME-212UFBL	LME12UFBL	LME-202NFB	LME02NFB
LME-302UL	LME02UL	LME-312UFBL	LME12UFBL	LME-302NFB	LME02NFB
LME-402UL	LME02UL	LME-412UFBL	LME12UFBL	LME-402NFB	LME02NFB
LME-502UL	LME02UL	LME-512UFBL	LME12UFBL	LME-502NFB	LME02NFB

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	1				
Model	UL Registration Model	Model	UL Registration Model	Model	UL Registration Model
LME-102NFBL	LME02NFBL	LME-123NW	LME23NW	LMS-102K	LMS02K
LME-202NFBL	LME02NFBL	LME-223NW	LME23NW	LMS-202K	LMS02K
LME-302NFBL	LME02NFBL	LME-323NW	LME23NW	LMS-302K	LMS02K
LME-402NFBL	LME02NFBL	LME-423NW	LME23NW	LMS-402K	LMS02K
LME-502NFBL	LME02NFBL	LME-523NW	LME23NW	LMS-502K	LMS02K
LME-102NFBK	LME02NFBK	LME-123NFB	LME23NFB	LHE-102A	LHE02A
LME-202NFBK	LME02NFBK	LME-223NFB	LME23NFB	LHE-202A	LHE02A
LME-302NFBK	LME02NFBK	LME-323NFB	LME23NFB	LHE-302A	LHE02A
LME-402NFBK	LME02NFBK	LME-423NFB	LME23NFB	LHE-402A	LHE02A
LME-502NFBK	LME02NFBK	LME-523NFB	LME23NFB	LHE-502A	LHE02A
LME-102NFBW	LME02NFBW	LME-123NFBL	LME23NFBL	LHE-102AFB	LHE02AFB
LME-202NFBW	LME02NFBW	LME-223NFBL	LME23NFBL	LHE-202AFB	LHE02AFB
LME-302NFBW	LME02NFBW	LME-323NFBL	LME23NFBL	LHE-302AFB	LHE02AFB
LME-402NFBW	LME02NFBW	LME-423NFBL	LME23NFBL	LHE-402AFB	LHE02AFB
LME-502NFBW	LME02NFBW	LME-523NFBL	LME23NFBL	LHE-502AFB	LHE02AFB
LME-112N	LME12N	LME-123NFBK	LME23NFBK	LHE-112A	LHE12A
LME-212N	LME12N	LME-223NFBK	LME23NFBK	LHE-212A	LHE12A
LME-312N	LME12N	LME-323NFBK	LME23NFBK	LHE-312A	LHE12A
LME-412N	LME12N	LME-423NFBK	LME23NFBK	LHE-412A	LHE12A
LME-512N	LME12N	LME-523NFBK	LME23NFBK	LHE-512A	 LHE12A
LME-112NL	LME12NL	LME-123NFBW	LME23NFBW	LHE-112AFB	LHE12AFB
LME-212NL	 LME12NL	LME-223NFBW	LME23NFBW	LHE-212AFB	 LHE12AFB
LME-312NL	LME12NL	LME-323NFBW	LME23NFBW	LHE-312AFB	LHE12AFB
LME-412NL	LME12NL	LME-423NFBW	LME23NFBW	LHE-412AFB	LHE12AFB
LME-512NL	 LME12NL	LME-523NFBW	LME23NFBW	LHE-512AFB	LHE12AFB
LME-112NW	 LME12NW	LME-102-S	LME02-S	LHE-123A	 LHE23A
LME-212NW	LME12NW	LME-102-Q	LME02-Q	LHE-223A	LHE23A
LME-312NW	LME12NW	LME-102W-S	LME02W-S	LHE-323A	LHE23A
LME-412NW	LME12NW	LME-102W-Q	LME02W-Q	LHE-423A	LHE23A
LME-512NW	LME12NW	LME-102FB-S	LME02FB-S	LHE-523A	LHE23A
LME-112NFB	LME12NFB	LME-102FB-Q	LME02FB-Q	LHE-123AFB	LHE23AFB
LME-212NFB	LME12NFB	LME-102FBW-S	LME02FBW-S	LHE-223AFB	LHE23AFB
LME-312NFB	LME12NFB	LME-102FBW-Q	LME02FBW-Q	LHE-323AFB	LHE23AFB
LME-412NFB	LME12NFB	LME-112-S	LME02FBW-Q	LHE-423AFB	LHE23AFB
LME-512NFB	LME12NFB	LME-112-Q	LME12-Q	LHE-523AFB	LHE- 23AFB
LME-112NFBL	LME12NFBL	LME-112-Q	LME12W-S	WEP-302	WEP02
LME-212NFBL	LME12NFBL	LME-112W-Q LME-112FB-S	LME12W-Q LME12FB-S	WEP-402 WEP-502	WEP02 WEP02
LME-312NFBL	LME12NFBL				
LME-412NFBL	LME12NFBL	LME-112FB-Q	LME12FB-Q	WE-302	WE02
LME-512NFBL	LME12NFBL	LME-102FBW-S	LME02FBW-S	WE-402	WE02
LME-112NFBK	LME12NFBK	LME-112FBW-Q	LME12FBW-Q	WE-502	WE02
LME-212NFBK	LME12NFBK	LME-123-S	LME23-S	WEP-302FB	WEP02FB
LME-312NFBK	LME12NFBK	LME-123-Q	LME23-Q	WEP-402FB	WEP02FB
LME-412NFBK	LME12NFBK	LME-123W-S	LME23W-S	WEP-502FB	WEP02FB
LME-512NFBK	LME12NFBK	LME-123W-Q	LME23W-Q	WE-302FB	WE02FB
LME-112NFBW	LME12NFBW	LME-123FB-S	LME23FB-S	WE-402FB	WE02FB
LME-212NFBW	LME12NFBW	LME-123FB-Q	LME23FB-Q	WE-502FB	WE02FB
LME-312NFBW	LME12NFBW	LME-123FBW-S	LME23FBW-S	WME-202A	WME02A
LME-412NFBW	LME12NFBW	LME-123FBW-Q	LME23FBW-Q	WME-302A	WME02A
LME-512NFBW	LME12NFBW	LMS-102	LMS02	WME-402A	WME02A
LME-123N	LME23N	LMS-202	LMS02	WME-502A	WME02A
LME-223N	LME23N	LMS-302	LMS02	WME-2M2A	WMEM2A
LME-323N	LME23N	LMS-402	LMS02	WME-3M2A	WMEM2A
LME-423N	LME23N	LMS-502	LMS02	WME-4M2A	WMEM2A
LME-523N	LME23N	LMS-102L	LMS02L	WME-5M2A	WMEM2A
LME-123NL	LME23NL	LMS-202L	LMS02L	WME-202AFB	WME02AFB
LME-223NL	LME23NL	LMS-302L	LMS02L	WME-302AFB	WME02AFB
LME-323NL	 LME23NL	LMS-402L	 LMS02L	WME-402AFB	WME02AFB
LME-423NL	LME23NL	LMS-502L	LMS02L	WME-502AFB	WME02AFB
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Patlite Europe GmbH

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Patlite Singapore

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Global Website: http://www.patlite.com

PATLITE Corporation

4-4-25, Hommachi, Chuo-ku, Osaka-shi, 541-0053 Japan International Sales Division TEL: +81-6-7711-8953 FAX: +81-6-7711-8961 E-mail: overseas@patlite.co.jp

PATLITE (U.S.A.) Corporation

20130 S. Western Ave. Torrance, CA 90501, U.S.A. TEL: +1-310-328-3222 FAX: +1-310-328-2676 E-mail: sales@patlite.com

PATLITE (SINGAPORE) PTE LTD

No.2 Leng Kee Road, #05-01 Thye Hong Centre, Singapore 159086 TEL: +65-6226-1111 FAX: +65-6324-1411 E-mail: sales@patlite.com.sg

PATLITE (CHINA) Corporation

Room 1102-1103, No.55, Lane 777, Guangzhong Road (West), ZhabeiDistrict, Shanghai, China 200072 TEL: +86-21-6630-8969 FAX: +86-21-6630-8938 E-mail: sales@patlite.cn

PATLITE Europe GmbH

Am Soeldnermoos 8, D-85399 Hallbergmoos, Germany TEL.+49 -811 9981 9770-0 FAX.+49-811 9981 9770-9 E-mail: info@patlite.eu

PATLITE KOREA CO., LTD.

A-2603, Daesung-D-POLIS, 543-1 Gasan-dong, Geumcheon-gu, Seoul, 153-719 TEL.+82-2-523-6636 FAX.+82-2-861-9919 E-mail:sales@patlite.co.kr

PATLITE TAIWAN CO., LTD.

7F. No. 91, Huayin St, Datong District Taipei, Taiwan R.O.C TEL.+886-(0)2-2555-1611 FAX.+886-(0)2-2555-1621 E-mail: info@patlite.tw

PT. PATLITE INDONESIA (FACTORY)

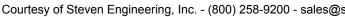
LOT 321 Batamindo Industrial Park, Jalan Beringin Mukakuning, Batam 29433 Indonesia TEL: +62-770-61-1123 FAX: +62-770-61-2444





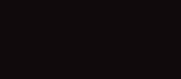
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