

GENERAL CATALOG

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www.patlite.com

"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.

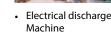
We've also reduced development time and production cost by having our own in-house machinery to produce, design and manufacture metal moldings and plastic materials with the use of injection machinery.

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



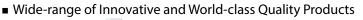


- 3D CAD Design
- Metal Part Molding Manufacturing



Machining Center

Injection molding Machine



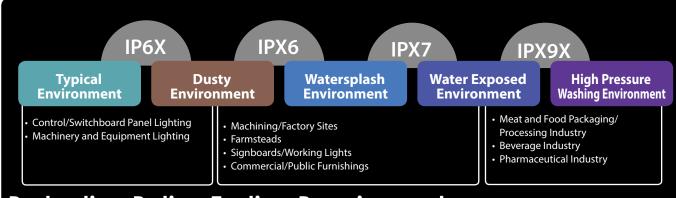


World-wide Sales, Marketing and After-sales Support Network



Index of Ingress Protection defined by CEI / IEC 529

IP [
÷	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.

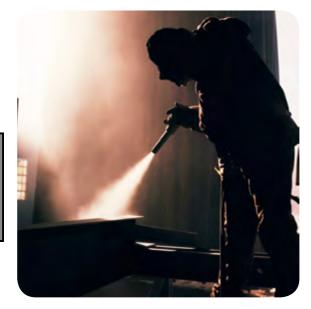


Protection Rating Testing Requirements

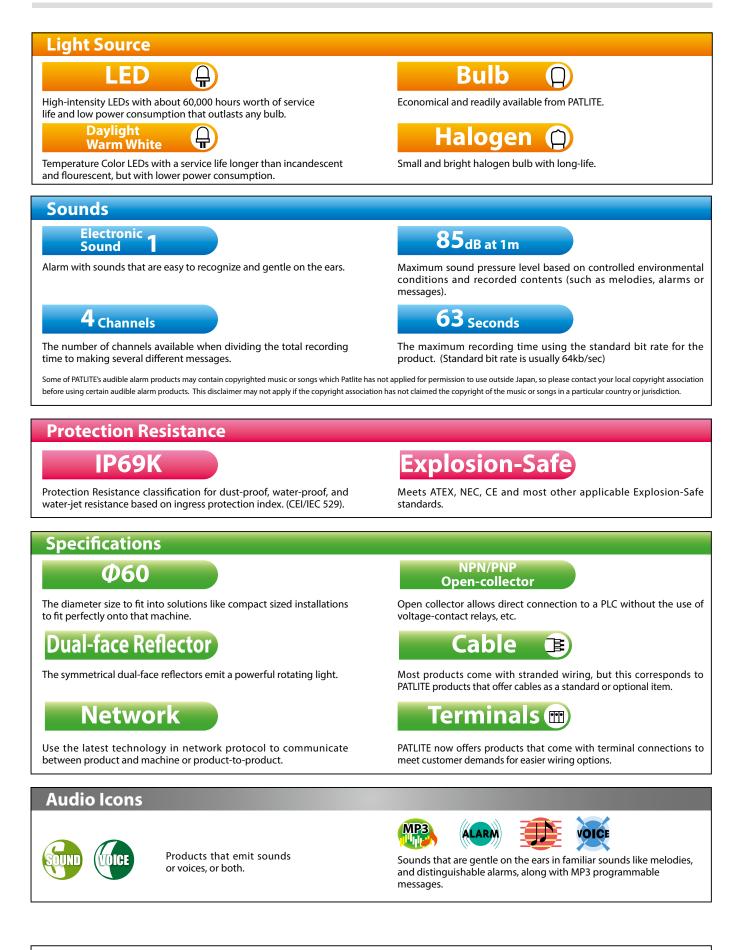
- IP6X= The product is placed in a dust chamber with a negative pressure state so that dust is made to float, and there is no invasion inside.
- IPX6= A water nozzle with a diameter of 12.0mm is placed at a range from 2.5 to 3.0 meters with a water velocity of 100 litres per minute injected towards the 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.



IP69K is the German DIN 40050 PART9 standard. It is defined as a protection regulation for high temperature and high-pressurized water. Water is heated up to 80° C and sprayed at a water pressure in the range from 80 to 100 bars at 14 to 16 liters per minute at the test object. The test object is at a distance of 100 to 150 mm from the nozzle and sprayed at a horizontal angle while it is being rotated, all done for a period of 30 seconds without being affected by water penetration.



Symbols Used in this Catalog





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.

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HELWC								
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	DC 5V				•**			
	DC 12V							
	DC 24V	•*	•	•*		•*	•***	•***
	LAN							
Network	USB				\bullet	\bullet		
Connection	RS-232C		•					
	Wireless					\bullet	\bullet	\bullet
	White							
Body Color	Ivory White				\bullet		\bullet	
	Black							
Output (d	B (at 1m))	80	80	-	-	-	-	-
Protection		IP20	i -	-	IP20	IP20	0	0
	41		Towar ita attacha					•

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

* Uses AC Adaptor

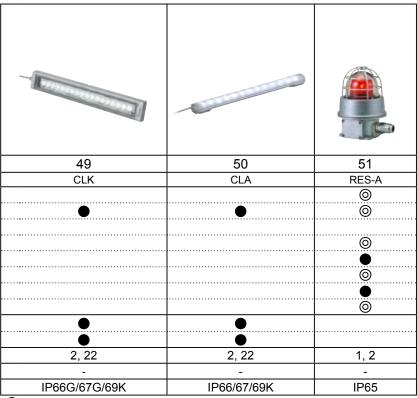
** Uses USB Power Source

*** Uses Signal Tower Power Source

Explosion-proof

	Sion-pre		1		1	1	γı
Pa	ge No.	44	45	47	4	6	48
I	Model	AR-070	AR-078	EHS/EHV	LKEH-FV	LKEH-FE	CLN
	DC12V			•			
	DC24V		\bullet		•		
	AC24V		\bullet				
Voltage	DC48V						
Vollage	AC100-110V						
	AC115-120V						
	AC200-220V						
	AC230-240V						
Conform	ity CE Ex	•	•	•	•	 	
Zone		2, 22	2, 22	2, 22	2, 22	2, 22	2, 22
Output ((dB (at 1m))	85	85	110	105	105	-
	on Rating	IP65	IP65	IP65	IP53	IP53	IP66G/67G/69K

PLAN BBBB ACTUAL 928 STATUS 9-3	PLAN 1234 Actual 387 Status - 10
	38
VE25	VE100
•	•
-	-
-	-



O Available upon special order.

Signal Tower

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Mode		ME-A	MES-A	MP	MPS	MP-C	LCE	LCE-U	LCS	LCS-U
Size (¢n	nm)	2	25		30			4	.0	
Voltage	AC/DC12V DC24V AC/DC24V AC90-250V AC100V AC100V AC120V AC220V AC230V White	•	•	•	•	•	•	•	•	•
Body Color	Ivory White Silver Black	•	•	•	•	•	•	•	•	•
Connection Type	Lead Wires Terminal M12 QD	•	•	•	•	•	•	•	•	•
Transistor Input	PNP NPN	•		•						
Flashing Functior										
Output (dB (at 1)	m))		-		-		8	5		-
Protection Rating	9	IF	942		IP65		IP	65	IF	P54

O Available upon special order.

				1010 = 10 D							
	e No.	94	8		28			8			
Mo	odel	LHE-A	LS7-H	LS7-C	LU7-USB	LU7-S	LU7-SU	LU7-SK	LU7	LU7-U	LU7-K
Size	(¢mm)					70					
	DC5V				\bullet						
	DC12V										
	DC24V										
Voltage	AC/DC24V										
Voltage	AC90-250V										
	AC100V										
	AC120V										
	AC220V										
	White		•	•							
Body	Ivory White										
Color	Silver			•						•	
	Black										
Connection	Lead Wires										
Туре	Terminal										
	M12 QD										
Transistor	PNP										
Input	NPN										
Flashing F					•						
Output (dl		90	8		80			9			
Protection	Rating	IP65	IP	65	IP65	IP65					

67	65		70		18		74		80	7		
LE	LES-A	LU5	LU5-U	LU5-K	LA6	LME	LME-U	LME-N	LMS	LME-S	LME-Q	
		50						60				
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										-		
										0	0	
85	-	85			85		85			8		
IP54	IP65		IP65		IP65		IP65		IP65	IP	65	

						Statute of	
97	100	103	141	143	144	106	107
LGE	WE/WEP	WME-A	KUS	KJS(B)	KJ(B)	WSST	HSST
100	W90xD37.5	W70xD80	70 x 70	82 x 82	116 x 116		
				•			
•	•	•	•	•		•	•
				•	•		
•					•		
•	●	•	•	•	•		•
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•	•	•	•	•	•		•
85	90	90	80	85	85		-
IP54	IP65	IP54	IP54	IP23	IP23	-	-

Signal Light

			With			F	
	Page No.	24	110	112	115	111	116
	Model	NE-M1-CL	NE-24	PES-A	PSE	KHE	LFH
S	Size (¢mm)	5	7	8	2	10	00
	DC12V				•		\bullet
	DC24V	•	•				\bullet
	AC24V						
	DC48V						\bullet
Voltage	AC100-230V				•		\bullet
vollage	AC100V			\bullet			
	AC120V			\bullet			
	AC200V			\bullet			
	AC220V			\bullet			
	AC230V						
Dedy Cala	White		•		\bullet	\bullet	
Body Colo	Black						\bullet
Transistor	PNP		•				
Input	NPN						
Output (dl	3 (at 1m))	-	-	-	-	-	-
Protection	Rating (w/Gasket)	IP66/67	IP65	IP23 (55)	IP23 (55)	IP23 (55)	IP66

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

Revolving Warning Light

	Page No.	122		23	124	124		25	126	127
	Model	RLE	RU	RS	RKE	RHE	RH-A	RK-A	SKH-EA	WH-A
	Size (ømm)		82				100			100
	DC12V									_
	DC24V	\bullet								
	AC24V									
	DC48V									
	DC100V									
Voltage	AC100V									
	AC120V									[
	AC200V									
	AC220V						[[
	AC240V									
	AC100-240V									
Body	White								Δ	
Color	Black								······	······
	Red									
<u>.</u>	Yellow									
Globe Color	Green									
COIOI	Blue		•	۲						
	Violet									
	Bulb					Ì				
Light	LED							[[
-	Halogen									1
Ou	itput (dB (at 1m))	-	-	-	88	88	90	90	-	90
	on Rating (w/ Gasket)	IP23 (55)	IP23	IP54						

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

117	112	114	118	119
LFK	PEW-A	KPE-A	XPE	XME
100	107	16	62	187
			\bullet	\bullet
			\bullet	\bullet
			\bullet	\bullet
		\bullet		
	\bullet			
		\bullet		
		\bullet	\bullet	Δ
	95			
- IP55	85 IP54 (23)	- IP23	- IP23	IP23

127	128	129	130	131	134	135	132	136	137	138	140	139
WK-A	SKH-A	SKHE(B)	SKP-A	KP-A	SKHB-1006D	SKL-A	RLR	HP	KG	SKC-A	SKV-A	HKFM
100	1 [.]	18	138		16	62		182	186	187	204	-
•	•	•	•	•		•	•	•	•	•	•	•
						•	•					
•	•		•						•	•	•	
					······							
			•									
•••••			••••••		•						•	
			Δ			Δ	•	•	•	Δ		
								ĕ	Ŭ			
•		•	•	•			•	•		•		•
				•	•	•	•		•	•	•	
90	90	88	-	-	75	-	-	-	-	-	-	-
IP54	IP23	IP23	IP23	IP23	IP23	IP23	IP66	-	IP23	IP23	IP66	-

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

LED Lights

LED LIY	1113										
								- Manana	annon maana		
Pa	age No.			1.	48				150		
	Madal		CLA						CLK		
ľ	Vodel	1S	2S	3S	6S	9S	12S		-AG		
Siz	ze (mm)	100	200	300	600	900	1200	200	300	600	
Voltage	DC24V										
Body Material	Aluminum										
	Stainless Steel										
	Polycarbonate	\bullet									
	Tempered Glass										
Cover	PMMA Resin		[[[[
	Polycarbonate										
Light Color	Temperature (K)		. 68	300K (-CD)	, 4800K (-C	N)	,	6500K (-CD), 5000	K (-CN)	
	Amber										
	Water	•									
Resistance	Oil										
1 Colotanice	Corrosion										
	Dust										
Protec	ction Rating			IP66/6	67/69K			IP(66G/67G/6	9K	

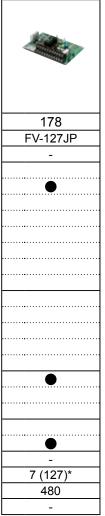
Audible Alarms & Annunciators

	C Aldi			unc	iato	13	1	[ſ	1		
			\langle)				(<u>()</u>)	(2)				5
P	age No.			158		160	162	174	26	170	172	164	176
	Model		BM	BM-H	BM-D	BD	BK	BSV	BSV-L	BDV	BKV	EHS	EHV
S	ize (mm)		ф 30	ф 30	¢ 30	80	120	75	75	80	120		-
	DC12-24 DC24V DC 12-4	••••••				•	•	•	•	•	•	•	•
Voltage	AC/DC24					_				_			
A	AC100V AC120V		•			•	•			•			
	AC220V			Ĭ		•				•			
	AC100-2	240V											
Body Color	Light Gra White Dark Gra Black Silver	••••••	•	•	•	•	•	•	•	•	•	•	•
Sound Function	MP3 Melody// Sound F	Alarm Reduction	•	•	•	•	•	•	•	•	•	•	•
Transisto		PNP NPN	•	•	•	 ●	© ●	•	•	© ●	© ●	•	
Outpu	ut (dB (at	1m))	85	90	80	90	95	8	7	87	95	110	110
Channel Ir			2	2	2	4	8 (32)	4 (15)	4 (15)	4 (15)	5 (31)	8 (32)	8 (63)
	k Sounds		-	-	-	-	-	63	520	63	63		220
Prote	ection Ra	ting	IP30	IP30	IP34	IP54	IP54	IP	54	IP54	IP54	IP	65

O Available upon special order.

				111242	A		NAME AND ADDRESS	
150	15	52		154		İ	22	
CLK	CL	.N		0)4/4				
-SA/-SG	-T	-(P)T		CWA			CWK	
300	85x	(85	300	600	900	200	300	600
● (-SG)		•						
● (-SA)								
6500K (-CD), 5000K (-CN)	6500K (-CD),	2700K (-CL)	6	500K (-CE	<u>)</u>	6	500K (-CE))
	.			 !				
<u> </u>							ļ 	
		•						
IP66G/67G/69K	IP66G/6	7G/69K		IP65			P66G/67G	• •

Hybrid Annunciators



-									
	ge No.			32	184	186		88	190
	lodel		LKEH-FE		RFT	RFV	RT-F	RT-VF	KJT
Siz	e (mm)		φ 1	00	1'	15	ф1	62	116
	DC24V				•				•
	AC24V								
Voltage	AC100								•
vollage	AC120	V							
	AC200	V							•
	AC220	V					[[
Sound	MP3								
Function	Melody	/Alarm							•
Transisto	r Input	PNP NPN							
Output	(dB (at		105	105	90	95	105	105	85
	nel Inpu		8 (32)	5 (31)	8 (32)	4 (15)	8 (32)	4 (15)	8 (32)
Playback			-	63	-	63	-	63	-
	tion Rat		IP53	IP53	IP54	IP54	IP23	IP23	IP23

* When SD Card is used.



New Products







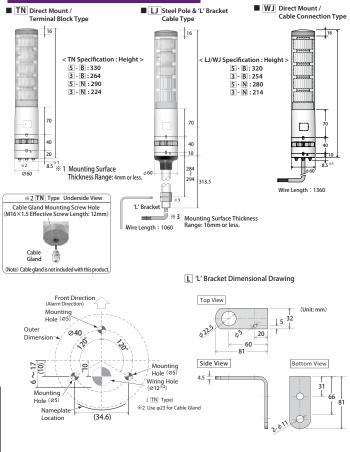
Display a variety of colors in various ways to improve your processes.

FEATURES

Ø60

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

Dimensions (Unit: mm)



How to Order

Signal Tower	LA6- 1 D 2	34-5	
Example: LA6-5DTNU	LED Tiers5 Body ColorSilve Flashing- Alarm	Mounting/WiringDirect Mount/Term ColorRed/Amber/Green/Blue/White with Flash and Alarm	ninal Buss
 LED Tiers 3: 3 Tiers 5: 5 Tiers 	 Ø Mounting/Wiring WJ: Direct/Cable TN: Direct/Terminal LJ: Steel Pole & Angle/Cab 	 Body Color Flashing/Alarm W: Off-white B: With U: Silver N: Without 	Color RYG: 3 Tiers RYGBC: 5 Tiers



An internal Mode Switch is available. Use the internal mode switch to easily set up various functions, such as the alarm volume.



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



Freely change luminescence colors and patterns with editing software.

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

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



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

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



Replacement Parts



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



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



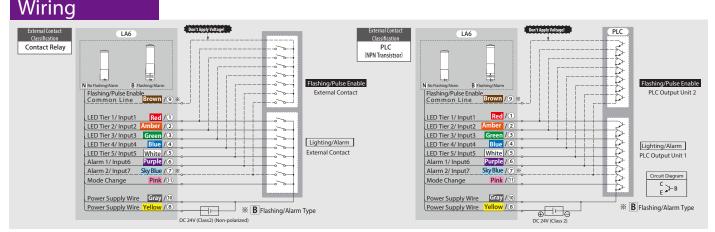
Waterproof Ring 'B' B25110042-F1



Pole Bracket (Off-white) B22210134-7F1



Waterproof O-ring B25110047-F1



Rated Power ConsumptionLA6- MaximumConsumptionMaximumLA6-Test ConditionPowerSignal Wire CurrentImageStandby CurrentImageOperating Ambient TemperatureImageOperating Humidity RangeImageStorage Temperature RangeImageStorage Humidity RangeImageMounting LocationImageMounting DirectionImageProtection Rating Test ConditionImageVibration ResistanceLA6- ImageVibration ResistanceLA6- ImageVibration ResistanceImageInsulation ResistanceImageWithstand VoltageImageDisplay Colorred (Image)Intensity)Purp * Dur No.Flash Rate60 ±Alarm Sound (Typical Frequency)No.		G 3.5W YYY 7W Y 4.5W ption test wi Sweep Du Acceleratic Fixed pitch Sweep Du Acceleratic Fixed Vibra	Less than 90 Less than 90 Less than 90 Up IP65 (V Instal rability: Total ampli on: 20.0 m/s2 (57.5 n durability: Total ampli on: 20.0 m/s2 (57.5 ation Frequency Du Tested while	E 10% of LA6-5 D LA6-5 D LA6-3D TM Soun Maxir Maxir -25 % RH (N -25 % RH (N -25 % RH (N -25 % RH (N -25 % % RH (N -25 % % 100 % RH (N -25 % % 100	□ B-RYG □ B-YYYYY □ B-YY 1 No.1 at maximum 70mA 1 num 70mA 1 num 15mA 1 to +60 □ 1	densation) densation) n 1529 ion 57.5 Hz),						
Operating Voltage Range Standard LA6- Rated Power Maximum LA6- Consumption Maximum LA6- Test Condition Power Standby Current Operating Ambient Test Condition Resistance Storage Temperature Operating Humidity Range Storage Temperature Storage Temperature Mounting Location Mounting Direction Protection Rating Test Condition LA6- Vibration Resistance LA6- Withstand Voltage Display Color Display Color red ((Typical Luminous Intensity) Purp * Durp *	-3D a N-RY(-5 D a N-RY(-3D a N-YY) er Consump 	G 3.5W YYY 7W Y 4.5W ption test wi Sweep Du Acceleratic Fixed pitch Sweep Du Acceleratic Fixed Vibra	Less than 90 Less than 90 Less than 90 Up IP65 (V Instal rability: Total ampli on: 20.0 m/s2 (57.5 n durability: Total ampli on: 20.0 m/s2 (57.5 ation Frequency Du Tested while	-10% of LA6-5 D LA6-3 D LA6-3 D LA6-3 D Maxir Maxir Maxir -25 0% RH (N -25 0% RH (N -25) 0% RH (N -25) 0% RH (N -25) 0% RH (N -25) 0% RH (N -25) 0% (N -25	Rated Voltage B-RYGBC B-RYG B-	4.5W 8W 5.5W mum volume densation) densation) n 1529 ion 57.5 Hz),						
StandardLA6- LA6- MaximumRated PowerMaximumLA6- LA6-Test ConditionPowerSignal Wire CurrentIStandby CurrentIOperating Ambient TemperatureIOperating Humidity RangeIStorage TemperatureIMounting LocationIMounting DirectionIProtection RatingITest ConditionIInsulation ResistanceLA6-Withstand VoltageIDisplay Colorred (I(Typical Luminous Intensity)Purp * Dur * Dur No.Alarm Sound (Typical Frequency)No.	-3D a N-RY(-5 D a N-RY(-3D a N-YY) er Consump 	G 3.5W YYY 7W Y 4.5W ption test wi Sweep Du Acceleratic Fixed pitch Sweep Du Acceleratic Fixed Vibra	Less than 90 Less than 90 Less than 90 Up IP65 (V Instal rability: Total ampli on: 20.0 m/s2 (57.5 n durability: Total ampli on: 20.0 m/s2 (57.5 ation Frequency Du Tested while	LA6-5 D LA6-3 D LA6-5 D LA6-5 D Maxir Maxir -25 0% RH (N -25 0% RH (N -25) 0% RH (N -25) 0% RH (N -25) 0% (N	B-RYGBC B-RYG Id No.1 at maxin num 70mA num 70mA No Dew or Concord Nump-p (10 - 5	4.5W 8W 5.5W mum volume densation) densation) n 1529 ion 57.5 Hz),						
Consumption Maximum LA6- Test Condition Power Signal Wire Current Image Standby Current Image Operating Ambient Image Storage Temperature Image Storage Temperature Image Storage Temperature Image Storage Humidity Range Image Mounting Location Image Mounting Direction Image Protection Rating Image Test Condition Image Vibration Resistance LA6- Vibration Resistance LA6- Withstand Voltage Image Display Color red (Image) Intensity) Purp Flash Rate 60 ± Alarm Sound No. No. No.	-5 Doon-YY -3Doon-YYY er Consump 	YYYY 7W Y 4.5W ption test wi Sweep Du Acceleratic Fixed pitch Sweep Du Acceleratic Fixed Vibra	Less than 90 Less than 90 Less than 90 Less than 90 IP65 (V Instal rability: Total ampli on: 20.0 m/s2 (57.5 n durability: Total ampli on: 20.0 m/s2 (57.5 ation Frequency Du Tested while	LA6-5 D LA6-3D rm Soun Maxir Aaxir -25 0% RH (N -25 0% RH (N -25 0% RH (N -25 0% RH (N -25 0% RH (N -25 10% RH (N -25) -10% RH (N -2	B-YYYYY B-YY id No.1 at maxin num 70mA num 15mA to +60 No Dew or Conc to +60 No Dew or Conc oor Only verted Direction rm: IP54) IEC 60 nupright positi 3 mmp-p (10 - 5) z) 0.0 m/s2 3 mmp-p (10 - 5) z) 3 mmp-p (10 - 5) z) 3 mmp-p (10 - 5) z) 3 map-p (20 - 5) z) 3 mage (20 - 5) z) z) <	8W 5.5W mum volume densation) densation) n 1529 ion 57.5 Hz), i7.5 Hz),						
LA6-Test ConditionPowerSignal Wire CurrentImageStandby CurrentImageOperating Ambient TemperatureImageOperating Humidity RangeImageStorage Temperature RangeImageStorage Temperature Rounting LocationImageMounting DirectionImageProtection RatingImageTest ConditionImageVibration ResistanceImageWithstand VoltageImageDisplay Colorred (Image)Italsh Rate60 ±Alarm Sound (Typical Frequency)No.	-3D - N-YY) er Consump	Y 4.5W ption test wi Sweep Du Accelerati Fixed pitch Sweep Du Accelerati Fixed Vibra	Less than 90 Less than 90 Less than 90 Less than 90 IP65 (V Instal rability: Total ampli on: 20.0 m/s2 (57.5 n durability: Acceler rability: Total ampli on: 20.0 m/s2 (57.5 ation Frequency Du Tested while	LA6-3Di rm Soun Maxir -25 0% RH (N -25 0% br>-150 H; ration 2 itude 0.3 - 150 H; ration 2 - 150 H; ration 2	□ B-YY Id No.1 at maxin num 70mA num 15mA 1 to +60 □ No Dew or Conc 1 to +60 □ No Dew or Conc 0 or Only verted Direction rm: IP54) IEC 60 n upright positi 3 mmp-p (10 - 5 z) 0.0 m/s2 3 mmp-p (10 - 5 z) : Acceleration 1 068-2-6:2010	5.5W mum volume densation) densation) n 1529 ion 57.5 Hz),						
Test ConditionPowerSignal Wire CurrentImageStandby CurrentImageOperating Ambient TemperatureImageOperating Humidity RangeImageStorage Temperature RangeImageStorage Temperature RangeImageStorage Humidity RangeImageMounting LocationImageMounting DirectionImageProtection RatingImageTest ConditionImage </td <td>er Consump</td> <td>Sweep Du Acceleratic Fixed pitch Sweep Du Acceleratic Fixed Vibra</td> <td>Less than 90 Less than 90 Less than 90 Up IP65 (V Instal rability: Total ampli on: 20.0 m/s2 (57.5 n durability: Acceler rability: Total ampli on: 20.0 m/s2 (57.5 ation Frequency Du Tested while</td> <td>rm Soun Maxir Maxir -25 0% RH (N -25 0% RH (N Ind right/In With ala lled in a itude: 0. - 150 H; ration 2 itude 0. - 150 H; urability JJS C 60</td> <td>Id No.1 at maxin num 70mA num 15mA to +60 No Dew or Conc to +60 to +60 No Dew or Conc oor Only verted Direction rm: IP54) IEC 60 n upright positi 3 mmp-p (10 - 5 z) 0.0 m/s2 3 mmp-p (10 - 5 z) : Acceleration 1 068-2-6:2010</td> <td>hum volume densation) densation) n 1529 ion 57.5 Hz), i7.5 Hz),</td>	er Consump	Sweep Du Acceleratic Fixed pitch Sweep Du Acceleratic Fixed Vibra	Less than 90 Less than 90 Less than 90 Up IP65 (V Instal rability: Total ampli on: 20.0 m/s2 (57.5 n durability: Acceler rability: Total ampli on: 20.0 m/s2 (57.5 ation Frequency Du Tested while	rm Soun Maxir Maxir -25 0% RH (N -25 0% RH (N Ind right/In With ala lled in a itude: 0. - 150 H; ration 2 itude 0. - 150 H; urability JJS C 60	Id No.1 at maxin num 70mA num 15mA to +60 No Dew or Conc to +60 to +60 No Dew or Conc oor Only verted Direction rm: IP54) IEC 60 n upright positi 3 mmp-p (10 - 5 z) 0.0 m/s2 3 mmp-p (10 - 5 z) : Acceleration 1 068-2-6:2010	hum volume densation) densation) n 1529 ion 57.5 Hz), i7.5 Hz),						
Signal Wire Current Image: Standby Current Operating Ambient Temperature Operating Humidity Range Operating Humidity Range Image: Storage Temperature Storage Temperature Range Image: Storage Humidity Range Storage Humidity Range Image: Storage Humidity Range Mounting Location Image: Storage Humidity Range Mounting Direction Image: Storage Humidity Range Image: Storage Humidity Range Image: Storage Humidity Range Mounting Direction Image: Storage Humidity Range Image: Storage Humidity Range Image: Storage Humidity Range Mounting Location Image: Storage Humidity Range Mounting Direction Image: Storage Humidity Range Image: Test Condition Image: Storage Humidity Range Insulation Resistance Image: Storage Humidity Range Withstand Voltage Image: Storage Humidity Range Display Color red (Intensity) Purp * Durp * Durp every Flash Rate 60 ± Alarm Sound (Typical Frequency) No.		Sweep Du Accelerati Fixed pitch Sweep Du Accelerati Fixed Vibra	Less than 90 Less than 90 Upi IP65 (V Instal rability: Total ampli on: 20.0 m/s2 (57.5 n durability: Acceler rability: Total ampli on: 20.0 m/s2 (57.5 ation Frequency Du Tested white	Maxir Maxir -25 0% RH (N -25 0% RH (N Ind right/In With ala lled in a itude: 0. - 150 H: ration 2 itude 0. - 150 H: urability JJS C 60	num 70mA num 15mA to +60 to +60 to +60 to +60 to Pew or Conc oor Only verted Direction rm: IP54) IEC 60 n upright positi 3 mmp-p (10 - 5 z) 0.0 m/s2 3 mmp-p (10 - 5 z) : Acceleration 1 068-2-6:2010	densation) densation) n 1529 ion 57.5 Hz),						
Standby Current Operating Ambient Temperature Operating Humidity Range Storage Temperature Range Storage Humidity Range Mounting Location Mounting Direction Mounting Direction Rating Test Condition Insulation Resistance Withstand Voltage Display Color red ((Typical Luminous Intensity) Flash Rate 60 ± No. No. Alarm Sound (Typical Frequency) No.	-00 TN 00	Acceleration Fixed pitch Sweep Du Acceleration Fixed Vibra	Less than 90 Upi IP65 (V Instal rability: Total ampli on: 20.0 m/s2 (57.5 n durability: Acceler rability: Total ampli on: 20.0 m/s2 (57.5 ation Frequency Du Tested while	Maxir -25 0% RH (N -25 0% RH (N 1nd right/In With ala lled in a itude: 0. - 150 H: ration 2 itude 0.3 - 150 H: ration 2 jitude 0.3 - 150 H: ration 2 jitude 0.3 - 150 H: ration 2 jitude 0.4 - 150 H: ration 2 jitude 0.5 - 150 H: ration 2 jitude 0 - 150 H: r r r r r r r r r r r r r r r r r r r	num 15mA to +60 to +60 to Dew or Conc to +60 to Dew or Conc oor Only verted Direction rm: IP54) IEC 60 n upright positi 3 mmp-p (10 - 5 z) 0.0 m/s2 3 mmp-p (10 - 5 z) Acceleration 1 068-2-6:2010	densation) n 1529 ion 57.5 Hz),						
Operating Ambient Temperature Image Operating Humidity Range Image Storage Temperature Range Image Storage Humidity Range Image Mounting Location Image Mounting Direction Image Protection Rating Image Test Condition Image Image Image Test Condition Image Image Image	-00 TN 00	Acceleration Fixed pitch Sweep Du Acceleration Fixed Vibra	Less than 90 Upi IP65 (V Instal rability: Total ampli on: 20.0 m/s2 (57.5 n durability: Acceler rability: Total ampli on: 20.0 m/s2 (57.5 ation Frequency Du Tested while	-25 2% RH (N -25 2% RH (N 10%	to +60 to	densation) n 1529 ion 57.5 Hz),						
Temperature Operating Humidity Range Operating Humidity Range Storage Temperature Storage Humidity Range Mounting Location Mounting Direction Protection Rating Test Condition LA6- Vibration Resistance LA6- Withstand Voltage Image Display Color red ((Typical Luminous Intensity) Purp * Durp * Durp * Durp * Durp (Flash Rate 60 ± Alarm Sound (Typical Frequency) No.	-00 TN 00	Acceleration Fixed pitch Sweep Du Acceleration Fixed Vibra	Less than 90 Upi IP65 (V Instal rability: Total ampli on: 20.0 m/s2 (57.5 n durability: Acceler rability: Total ampli on: 20.0 m/s2 (57.5 ation Frequency Du Tested while	25 RH (N -25 0% RH (N Ind right/Im With ala lled in a itude: 0. - 150 H; ration 2 itude 0. - 150 H; urability JJS C 60	No Dew or Conc to $+60$ No Dew or Conc oor Only verted Direction rm: IP54) IEC 60 n upright positi 3 mmp-p (10 - 5 z) 0.0 m/s2 3 mmp-p (10 - 5 z) : Acceleration 1 068-2-6:2010	densation) n 1529 ion 57.5 Hz),						
Storage Temperature Range Storage Humidity Range Mounting Location Mounting Direction Protection Rating Test Condition LA6- Vibration Resistance Insulation Resistance Withstand Voltage Display Color Insulation Resistance Withstand Voltage Display Color Flash Rate Alarm Sound (Typical Frequency) No.	-00 TN 00	Acceleration Fixed pitch Sweep Du Acceleration Fixed Vibra	Less than 90 Upi IP65 (V Instal rability: Total ampli on: 20.0 m/s2 (57.5 n durability: Acceler rability: Total ampli on: 20.0 m/s2 (57.5 ation Frequency Du Tested while	-25□ ^{10%} RH (N right/In With ala Iled in a itude: 0. - 150 H: ration 2 itude 0.3 - 150 H: urability JIS C 60	to +60 to +60 verted Direction rm: IP54) IEC 60 n upright positi 3 mmp-p (10 - $\frac{1}{2}$) 0.0 m/s2 3 mmp-p (10 - $\frac{5}{2}$) ; Acceleration 1 068-2-6:2010	densation) n 1529 ion 57.5 Hz),						
Range Image Storage Humidity Range Image Mounting Location Image Mounting Direction Image Protection Rating Image Test Condition Image Vibration Resistance LA6- Vibration Resistance Image Test Condition Image Insulation Resistance Image Withstand Voltage Image Display Color red (Image) Intensity) Purp Flash Rate 60 ± Alarm Sound No. No. No. No. No.	-00 TN 00	Acceleration Fixed pitch Sweep Du Acceleration Fixed Vibra	Up IP65 (V Instal rability: Total ampli on: 20.0 m/s2 (57.5 n durability: Acceler rability: Total ampli on: 20.0 m/s2 (57.5 ation Frequency Du Tested while	0% RH (N Ind right/In With ala Iled in a itude: 0. - 150 H: ration 2 itude 0. - 150 H: urability JJS C 60	No Dew or Conc oor Only verted Direction rm: IP54) IEC 60 n upright positi 3 mmp-p (10 - 5 z) 0.0 m/s2 3 mmp-p (10 - 5 z) : Acceleration 1 068-2-6:2010	n 1529 57.5 Hz), 57.5 Hz),						
Mounting Location Mounting Direction Protection Rating Test Condition Vibration Resistance LA6- Vibration Resistance Insulation Resistance Withstand Voltage Display Color Intensity) Flash Rate Alarm Sound (Typical Frequency)	-00 TN 00	Acceleration Fixed pitch Sweep Du Acceleration Fixed Vibra	Up IP65 (V Instal rability: Total ampli on: 20.0 m/s2 (57.5 n durability: Acceler rability: Total ampli on: 20.0 m/s2 (57.5 ation Frequency Du Tested while	Ind right/In With ala Iled in a itude: 0. - 150 H: ration 2 itude 0. - 150 H: urability JIS C 60	oor Only verted Direction rm: IP54) IEC 60 n upright positi 3 mmp-p (10 - 5 z) 0.0 m/s2 3 mmp-p (10 - 5 z) : Acceleration 1 068-2-6:2010	n 1529 57.5 Hz), 57.5 Hz),						
Mounting Direction Protection Rating Test Condition Vibration Resistance LA6- Vibration Resistance Test Condition Insulation Resistance Withstand Voltage Display Color Intensity) Flash Rate Alarm Sound (Typical Frequency)	-00 TN 00	Acceleration Fixed pitch Sweep Du Acceleration Fixed Vibra	IP65 (N Instal rability: Total ampli on: 20.0 m/s2 (57.5 n durability: Acceler rability: Total ampli on: 20.0 m/s2 (57.5 ation Frequency Du Tested while	right/In With ala Iled in a itude: 0. - 150 Hi ration 2 itude 0. - 150 Hi urability JIS C 60	verted Direction rm: IP54) IEC 60 n upright positi 3 mmp-p (10 - 5 z) 0.0 m/s2 3 mmp-p (10 - 5 z) : Acceleration 1 068-2-6:2010	529 ion 57.5 Hz), 57.5 Hz),						
Protection Rating Test Condition LA6- Vibration Resistance Test Condition Insulation Resistance Withstand Voltage Display Color (Typical Luminous Intensity) Flash Rate Alarm Sound (Typical Frequency) No.	-00 TN 00	Acceleration Fixed pitch Sweep Du Acceleration Fixed Vibra	IP65 (N Instal rability: Total ampli on: 20.0 m/s2 (57.5 n durability: Acceler rability: Total ampli on: 20.0 m/s2 (57.5 ation Frequency Du Tested while	With ala Iled in a itude: 0. - 150 H: ration 2 itude 0. - 150 H: urability JIS C 60	rm: IP54) IEC 60 n upright positi 3 mmp-p (10 - 5 z) 0.0 m/s2 3 mmp-p (10 - 5 z) : Acceleration 1 068-2-6:2010	529 ion 57.5 Hz), 57.5 Hz),						
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Vibration Resistance LA6- LA6- Test Condition Insulation Resistance Withstand Voltage Display Color (Typical Luminous Intensity) Flash Rate Alarm Sound (Typical Frequency) No.	-00 TN 00	Acceleration Fixed pitch Sweep Du Acceleration Fixed Vibra	on: 20.0 m/s2 (57.5 n durability: Acceler rability: Total ampli on: 20.0 m/s2 (57.5 ation Frequency Du 	- 150 H; ration 2 itude 0.3 - 150 H; urability JIS C 60	z) 0.0 m/s2 3 mmp-p (10 - 5 z) : Acceleration 1 068-2-6:2010	57.5 Hz),						
Insulation Resistance Insulation Resistance Withstand Voltage Insulation Resistance Display Color red ((Typical Luminous Intensity) Purp * Durever Flash Rate 60 ± No. No. Alarm Sound (Typical Frequency) No.		Acceleratio Fixed Vibra	on: 20.0 m/s2 (57.5 ation Frequency Du Tested while	- 150 Hi urability JIS C 60	z) : Acceleration 1 068-2-6:2010							
Insulation Resistance Withstand Voltage Display Color red ((Typical Luminous Intensity) Purp * Dur * Dur ever Flash Rate 60 ±: No. No. Alarm Sound (Typical Frequency) No.			Tested while	JIS C 60	068-2-6:2010	LA6-DE TND Acceleration: 20.0 m/s2 (57.5 - 150 Hz) LA6-DE WJ Acceleration: 20.0 m/s2 (57.5 - 150 Hz) Fixed Vibration Frequency Durability: Acceleration 10.0 m/s2 JIS C 60068-2-6:2010						
Insulation Resistance Withstand Voltage Display Color red ((Typical Luminous Intensity) Purp * Dur * Dur ever Flash Rate 60 ±: No. No. Alarm Sound (Typical Frequency) No.				e install	JIS C 60068-2-6:2010 Tested while installed in an upright position							
Withstand Voltage Display Color red ((Typical Luminous Intensity) Purp * Dur * Dur every Flash Rate 60 ± No. No. Alarm Sound (Typical Frequency) No.			an 1Mohm at DCE		ed in an uprigh	t position						
Display Color red ((Typical Luminous Purp Intensity) row Flash Rate 60 ± No. Alarm Sound ((Typical Frequency) No.	More than 1Mohm at DC500V between the power input lead and chassis. 500VAC for 1min between terminals and chassis without breaking insulation											
(Typical Luminous Purp * Dur * Dur even Flash Rate 60 ± No. No. Alarm Sound No. (Typical Frequency) No.						5						
(Typical Eurinious * Dure in the second se		·	0 mcd) green (2600			white (1250 mcd)						
Flash Rate 60 ± No. No. No. No. Alarm Sound No. (Typical Frequency) No.	Purple (800 mcd) pink (850 mcd) cyan (2150 mcd) lemon (2150 mcd) * Due to the characteristics of the LED elements, a variation in difference of the color tone and brightness of every product may occur.											
No. Alarm Sound No. (Typical Frequency) No.	60 ±2 fpm											
Alarm Sound No. (Typical Frequency) No.	1 2400H	lz Continuou	is beep sound	No. 2	2400Hz Rapid i	ntermittent beep						
(Typical Frequency) No.	3 2400H	lz Long inter	mittent beep	No. 4	2400Hz Fast int	ermittent beep						
		lz Continuou	i		•	ntermittent beep						
No			·			ermittent beep						
No.			· · _	No. 10	2400Hz & 3600	Hz Multiplexed Beep						
No.	11 4000H	Iz & 4800Hz	Multiplexed Beep		05 15							
Sound Level				-	num: 85dB							
Test Condition						of the alarm opening at 1m						
	kimum] -> [- Irns to [Max	-5dB drop fr			. ,	Default: Maximum). from maximum (standard)] -> [OFF] (
Main Unit			minal Female	USB2 0	/1.1 Interface T	ransmission Rate: USB2.0/1.1/1.0						
Data Transfer Interface Cable						or: USB Male- USB (MicroB) male						
Application Software		Exclu	sive Application So	oftware	(Downloadable	from our Homepage)						
LA6-	-3DTN□B	480g LA6-3	DLJDB	980g	LA6-3DWJ□B	450g						
Mass (Tolerance 10%)	-3DTN⊡N	420g LA6-3	DLJ_N	930g	LA6-3DWJ⊡N	400g						
LA6-		590g LA6-5		_		560g						
		530g LA6-5				510g						
			4, EN 61000-6-2)		5 Directive (EN 5							
	08, CSA-C22	2.2 No.14 opartB Class			KN 61000-6-4, K larking	(N 61000-6-2)						

Success Story

Manage and control assembly line Case 1 progress with "takt time visualization!"



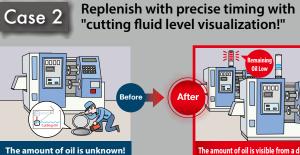
Worker did not know how long it was taking to complete task, causing uneven progress of the entire assembly line and delays.



Workers can pace themselves to complete their tasks on time. The entire line can move more evenly and delays are reduced.



Task progress is understood in real time!



Cutting fluid level in the underground

tank was unknown. Operators wasted a lot of time opening the tank to verify how much fluid was left.

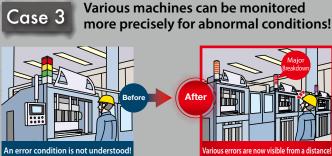


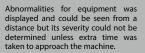
The amount of fluid in the tank could be determined with a glance, even from great distances, allowing quicker response to multiple machines, and improved operator productivity.

Remaining tank level indication



The status of the amount of oil can be seen at a glance from a distance!

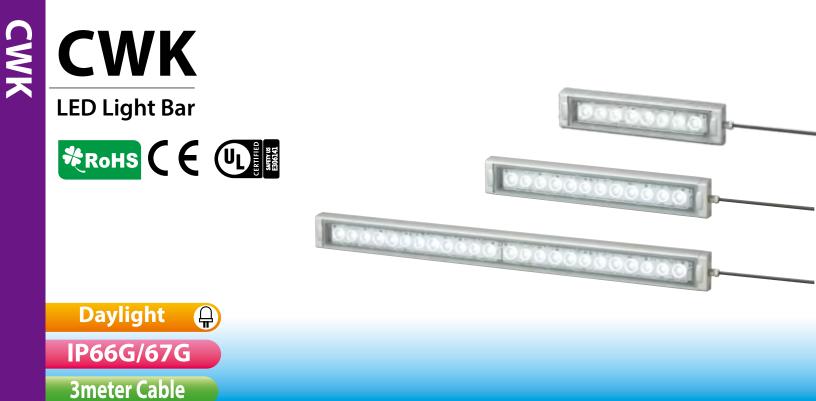




Various errors are now visible from a distance! Now equipment can be checked for abnormalities at a glance from a distance, and when all tiers light up prompt attention can be given.







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

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



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

Specifications

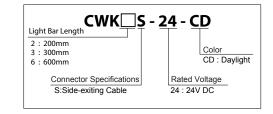
Model	CWK2S-24	CWK3S-24	CWK6S-24				
Luminous Color		Daylight					
Color Temperature (typ.)		6500K					
Illuminance (typ.) (at DC24V) 1.0m	600 lx	850 lx	1500 lx				
Total Luminous Flux (typ.)	800 lm	1200 lm	2400 lm				
Operating Voltage Range		24VDC ±10%					
Rated Current Consumption	360mA ±10%	480mA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



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

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

How to Order



Dimensions (Unit: mm)

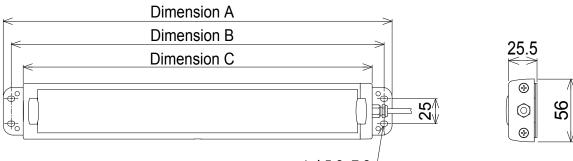
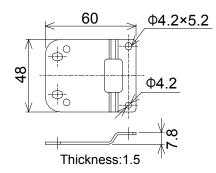


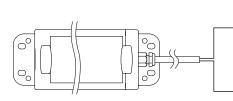


Table 1

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



Wiring



[Enforced] There is no protection rating for the area surrounding the tip of the cable. To ensure insulation of water intrusion, the use of fillers (such as silicon, etc.) to plug up the tip part is recommended.

Standard Accessory

These brackets are included.

Mounting Brackets



Options

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



Surface-mount Brackets



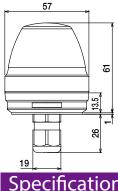


NE-M1-CL7 Series LED Dome Signal Light; One Signal Light with 7 LED color combinations provide multiple solutions with years of maintenance-free operation.

FEATURES

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

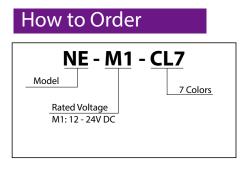
Dimensions (Unit: mm)

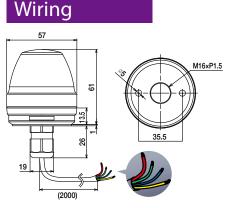


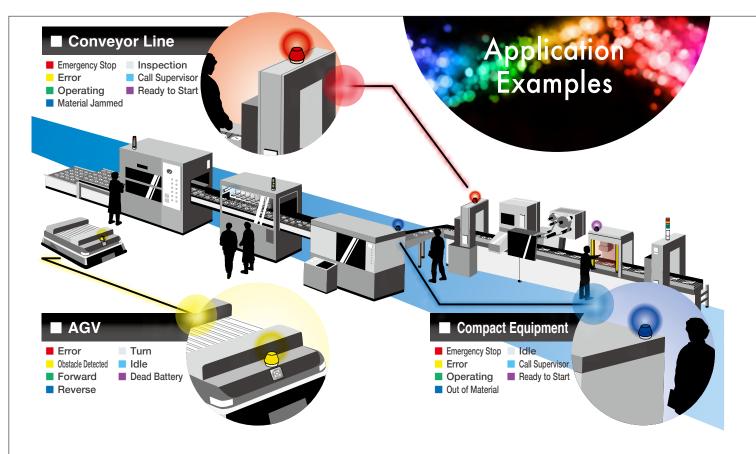
Mounting Dimensions Wire Entry Hole Mounting Hole M16×P1.5 2-ø4.5 35.5

Specifications

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









Compact Size



A compact design to fit with any piece of equipment.





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

Environmental Resistant Characteristics



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

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

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



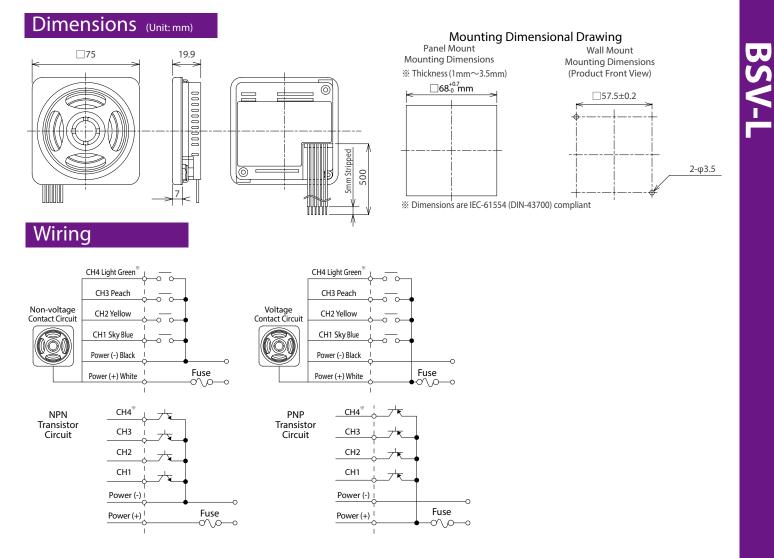
Now more playback time for longer, or more messages.

FEATURES

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



The support for multilingual communication is increasing due to the improvement in service at commercial establishments, such as for transportation, tourist resort, etc. and the audio assistance has been increased by more languages, such as Japanese, English, Chinese and Korean; therefore about 4 times the amount of playback time is needed. With the BSV-L model, a maximum of 520 seconds in playback is easy to support several multilingual messages.



Specifications and How to Order

■ 520sec. Model

Specifications	_	_	_	_	_	_	_		_	_		_		
Model	Transistor Type	Rated Voltage	Operating Voltage Range	Power Consumption	Sound Level	Operating Temperature Range	Max.Playback Time	Playback Channels	Protection Rating	Mass	Front Cover Color	Recorded Data		
BSV-24NLM-W/D											Off white (-W) Dark Gray (-D)	Voice		
BSV-24NLM-S	_ NPN										Silver (-S)	VOICE		
BSV-24NL-W/D	Transistor							4 (Bit Input) 15 (Binary Input)	IP54		Off white (-W) Dark Gray (-D)	Alarm		
BSV-24NL-S		DC	DC10.8V	0.514	Max. 87dB (at 1m)	-10°C to +50°C	520sec.	When using the Sound Reduction	(Only for Panel Mount in the	100g	Silver (-S)	Alam		
BSV-24PLM-W/D		12-24V		-	10	to 3.5W 26.4V	/ 1kHz Sine Wave	(RH 85% or less)	520sec.	Function, the inputs become:	Upright Position) In accordance	±10%	Off white (-W) Dark Gray (-D)	Voice
BSV-24PLM-S	_ PNP							3 (Bit Input) 7 (Binary Input)	with IEC 60529		Silver (-S)	VOICE		
BSV-24PL-W/D	Transistor											Off white (-W) Dark Gray (-D)	Alarm	
BSV-24PL-S											Silver (-S)	Alainn		
BSV-24 Transistor Type (1) Transistor Type (2) Playback Time (3) Registered Messages Blank : None (15 Alarm Sounds) M : Pre-recorded Messages M : Pre-recorded Messages S : Silver (4) Front Cover Color W: Off white D : Dark Gray S : Silver														



1

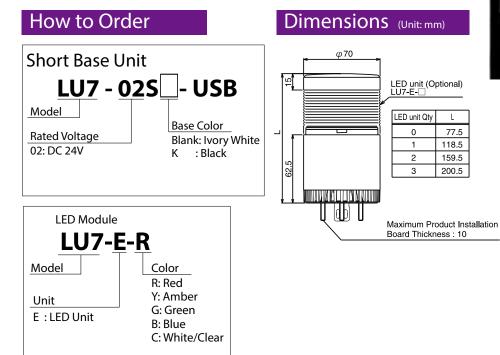
With the built-in SD card slot, MP3 data rewriting can be done with an SD card. In addition, rewriting or editing MP3 data files is possible with or without the exclusive PATLITE Playlist Editor 2 Application software.





USB powered Base Module with Integrated Alarms

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



Free Downloadable Software

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



Printing Machines

Application Example

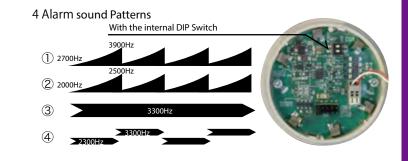




Loud, multi-sound Module (LU7-LB)

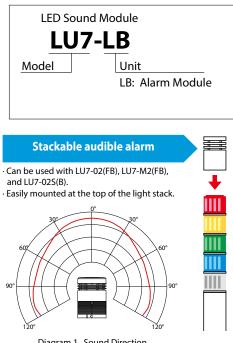
FEATURES

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

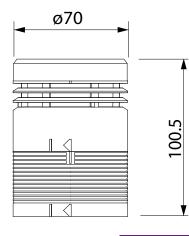


LU7-LB

How to Order

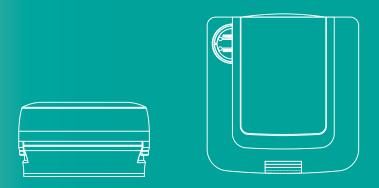


Dimensions (Unit: mm)



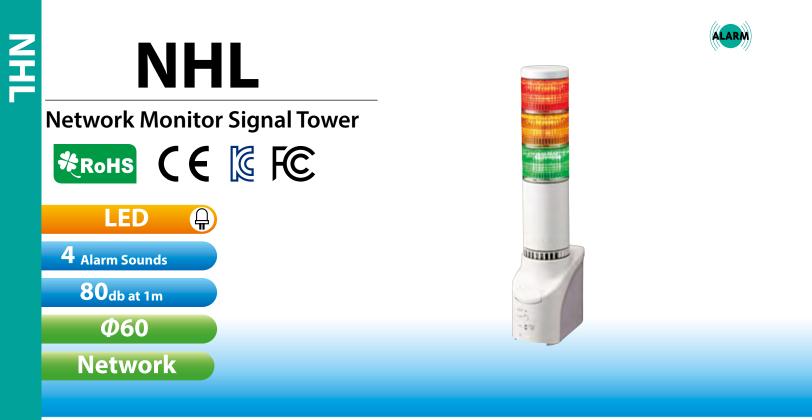
Specifications

Model	Туре	Rated Voltage	Rated Current	Power Consumption	Mass
LU7-LB			150mA	-	140g



Network Products





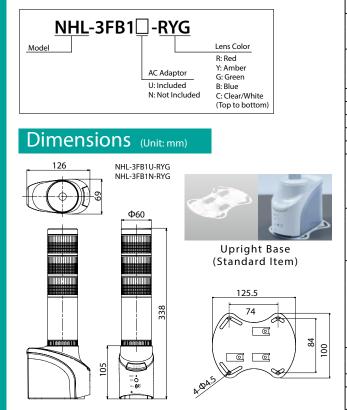
Network Monitoring With a New Look

FEATURES

- 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			NHL-3FB1U-RYG				NHL-3FB1N-RYG			
AC	Rated Voltage		AC 100V to 240V			-				
Adaptor	Operat R	Operating Voltage Range		AC 90V to 264V -			-			
	Rate	d Voltage		DC 24V						
Main Unit		ower	Unit	Red	Amber	Gre	en	Blue	White	Buzzer
	Cons	umption	2.0W	1.5W	1.5W	0.8		0.8W	0.8W	2.0W
Operating 1	Tempera	ture Range					+40°	-		
Storage Te						<u> </u>	+60			
	ive Hum	,		RH	of 20 to 80	<u> </u>		ondensat	tion)	
	ion Resi					19.6				
Prote	ection Ra	ating			IP20 (N			,		
Alarm Sound	Aud	lio Level	()	Three-position switch for "HIGH", "LOW", "OFF" "HIGH": 80dB or more "LOW": 70dB or less (Tested at 1m from diaphram in upright position)						
Tone Pattern			Four distinctive patterns: (Slow Intermittent), (Fast Intermittent),(Fast Burst), (Continuous)							
"CLEAR"			Pushbutton Switch							
Switch		"TEST"	Pushbutton Switch							
Switci	ies	"RESET"	Pushbutton Switch							
		"BUZZER"	Slide Switch							
			Physical Layer: 10BASE-T/100BASE-TX (Auto-negotiation/Full Duplex/ Half Duplex)							
				Data Link Layer: CSMA/CD						
Communi Metho		Ethernet	Network Link Layer: IP / ARP / ICMP							
			Transport Layer: TCP / UDP							
			Application Layer: HTTP / RSH / SMTP / SNTP / POP / DNS / NTP / DHCP / Socket							
Mounting Location		Indoors Only								
wount	<u></u>	Direction	Desktop or Wall-mount in the Upright Position							
	Mass		800g (AC Adaptor not included)							
Accessories			AC Adaptor, Rubber Feet, Adhesive Tape, Support Base 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.

	and the second s
AND DO NO.	
12	
200	and the
1.1	
-	
	allowing the local

Web Setup Screen

Communication Commands for many customized applications



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.



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

SOCKET Transmission

PHN Command Compatibility

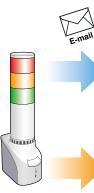
Controlled with 2 byte commands. * Compatible with NHE-3FB, NHC-3FB, NHM-3FB, and PHN-3FBE1. * Some functionality is limited.

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.

Diagnostic / Reporting/ Notification Features



E-mail Transmission

Send e-mail with a maximum of eight selectable events

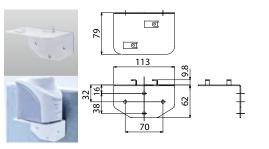
Up to eight events can be created and sent as a secure e-mail with the subject name and text corresponding to the event.

SNMP v2c

SNMP TRAP Transmission

Can transmit from a maximum of eight network devices.

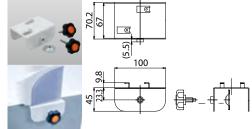
Options



Self-diagnosis



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



g/ Notification rea

192.168.10.1 -l root alert 111001

PHC-100A Interface Converter

Network Terminal 🖮

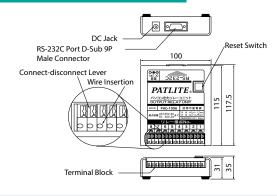
 This product requres the knowledge to program with ASCII commands to output through an RS-232C port.

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.

FEATURES

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

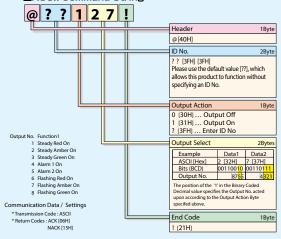
Dimensions (Unit: mm)



Specifications

		DUC 4004		
N	/lodel	PHC-100A		
	Interface	RS-232C (Based on EIA)		
	Method	Half-duplex, Full-duplex, Asynchronous		
	Baud Rate	9,600 bps		
Communication	Data Bit	8 bit		
Protocol	Stop Bit	1 bit		
	Parity Bit	None		
	Flow Control	None		
	I/O Port	D-sub 9 pin Male Connector		
	Contact Type	Non-voltage Contact		
	Contact Outputs	8		
PHC Base	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)		

PHE-3FBE1 / PHC-100A Control ASCII Command String



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

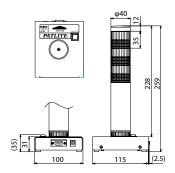


• This product requres the knowledge to program with ASCII commands to output through an RS-232C port.

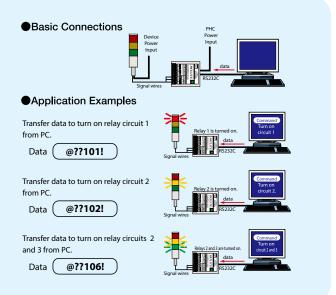
Signal Tower can be controlled directly by PC through RS-232C.

FEATURES

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



Dimensions (Unit: mm)



Specifications

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



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

FEATURES

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

How to Order

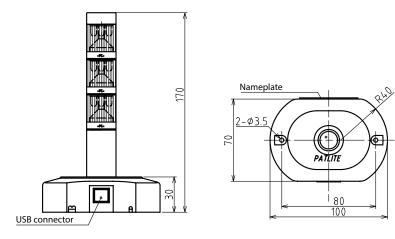
PHU-3-RYG

Color RYG: (Red, Amber, Green) RYB: (Red, Amber, Blue) (Top to bottom)

Specifications

Model		PHU-3-RYG	PHU-3-RYB			
	Rated Voltage	5V DC (USB Buss Power)				
	Operating Voltage Range	DC 4.4V to	DC 5.25V			
Rated Current ConsumptionGeneral(Power Source)		Standby Mode: 25mA Operating Mode: 230mA Max.				
	Operating Temperature Range	-10°C to	-10°C to +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						
	Withstand Voltage	AC 500V applied for 1 minute between the terminals and chassis without breaking insulation				
	Mass	0.18kg				
Interface	Input / Output	Input: USB / Output: Lighting	(Red, Amber, Green, Blue LED)			
	Physical Specifications	Connector Input: Series-B Receptacle (USB Rev. 1.1 Compliant)				

Dimensions (Unit: mm)



Example) PHU-3-RYG controlling Red and Green LED lights (*1)				
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 1111		
	"Red", "Amber", "Green", "Blue" Light Off	0000 0000		
Transfer Mode	Bulk Transfer			
Data Error Detection Criteria	CRC (Cyclic Redundancy Check)			
Packet Commands	Token Packet (SOF, SETUP, OUT, IN)			
	Data Packet			
	Handshake Packet			
Transmission Setting (Virtual COM)	HEX 0 5			
Bit Rate : 19,200bps	Binary 0 0 0 0 0 1	0 1		
Data Length : 8 bits				
Parity : None	Not Used			
Stop Bit : 1 bit				
Control Flow : None				
	Blue LED 0: Off /1: On			
	Green LED 0: Off /1: On			
	Amber LED 0: Off /1: On	┛║		
	Red LED 0: Off /1: On			
	*2 *3			

*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.

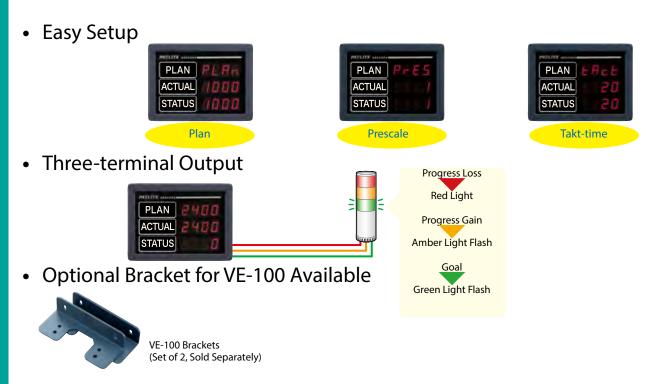


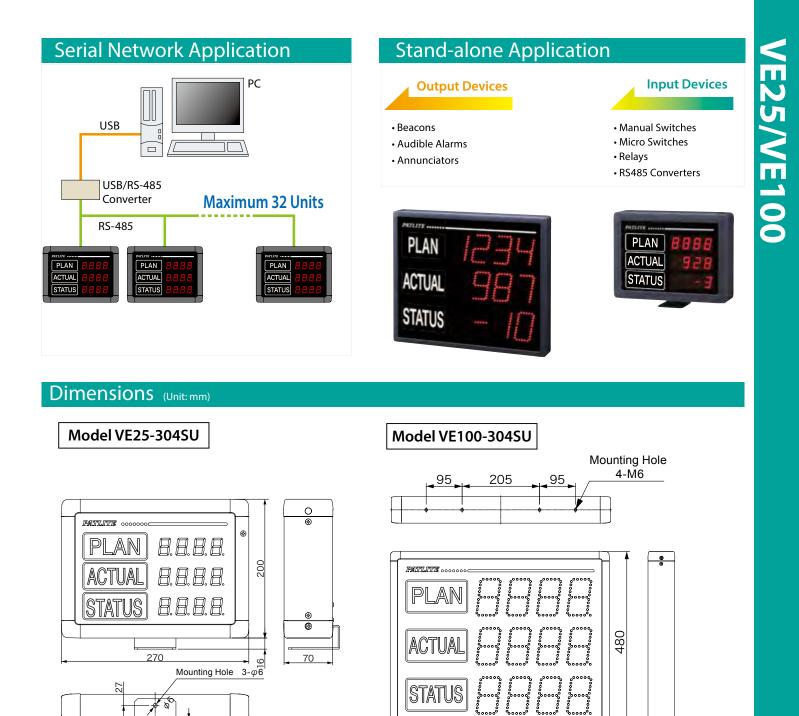
- Reduce Down Time for "Kaizen"
- Ideal for Lean Manufacturing
- **Real-time Production Monitoring**
- Large Digital Displays
- **Easy Installation**

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

FEATURES

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





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Terminal

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(CONTRACT)

95 5

Bracket

Plug

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Y

139.5

20

580

Terminal

Plug

WD-Z2

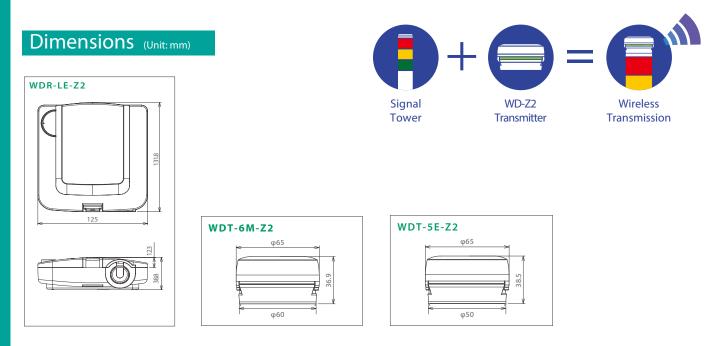
Wireless Data Acquisition System



Monitor remotely and collect data wirelessly from a PATLITE Signal Tower

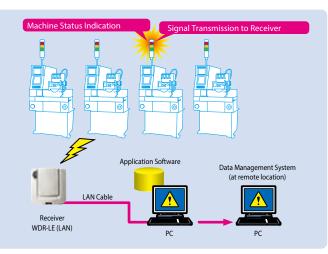
PATLITE wireless add-on modules and receivers make PATLITE Signal Towers capable of sending electrical signals over a wireless network to a data center. PATLITE wireless add-on modules and receivers are a uniquely practical and economical solution for data acquisition, machine status remote monitoring,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

- Simply add-on to a PATLITE Signal Tower
 Operating conditions of Patlite signal towers installed on production machines or process systems can be transmitted wirelessly to a data center. Data acquisition and remote monitoring are possible instantly and economically through the WDR-Z2 receiver.
- 2) Wireless technology of today eliminates tedious wire installation The WDT-Z2 add-on wireless modules tap their power from the PATLITE Signal Towers and transmit their electrical signals to the data center. This can reduce wiring, component installation and other related costs.
- 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.

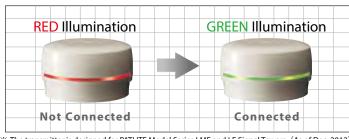


Typical Applications

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



Network Connection Condition



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

Specifications

Transmitters

Model	WDT-6M-Z2	WDT-5E-Z2
Applicable Signal Tower	Φ60 LME Series	Φ50 LE Series
Rated Voltage	DC 24V (N	o Polarity)
Voltage Range	20.4V - 2	26.4V DC
Current Consumption	35	mA
Operating Temperature	-10°C - +60°C (No Condensation)	
Storage Temperature	-20°C - +70°C (No Freezing)	
Relative Humidity	RH 85% or less	
Mounting Direction	Upright Position	n (Indoors Only)
Protection Rating	Determined by PATLITE Signal Tower IP Rating	
Dimensions (mm)	Ф65 х 36.9	Ф65 х 38.5
Mass	55g	

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

Features

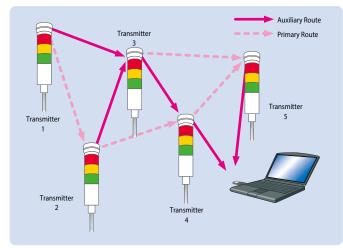
Wireless Standard	IEEE 802.15.4 for Zigbee 2.4GHz	
Frequency Bandwidth	2,400MHz - 2,483.5MHz (16 Channels at 5MHz Step starting from 2,405MHz)	
Networking Connections	up to 20 Units (*1)	
Antenna Output	Maximum 1mW	
Compliances	Wireless Telegraph Law, Electrical Appliance and Material Safety Law (AC Adaptor), RoHS, CE (R&TTE), FCC, China, Indonesia, Taiwan, Thailand, Phillippines	

(*1) Number of possible 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.

Wireless Concept IEEE 802.15.4 2.4GHz

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



Transmitter Installation



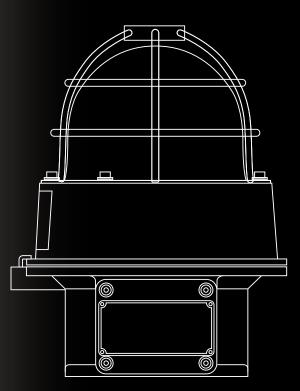
Affix the transmitter adaptor (a) on the Signal Tower and fasten it with the center screw. Then simply attach the transmitter (a) to the bracket. (Some applications don't require additional wiring.)

Receiver

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



Explosion-Safe Products





AR-070

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 Signal Tower

ROHS CE (Ex)



Ø40

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

φ40mm with sealed cable

Dimensions (Unit: mm)

SIGNAL LIGHT





SIDE MOUNT BRACKET



Specifications

1/2" NPT

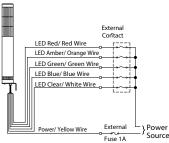
*1/2 NPT Adaptor also available

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

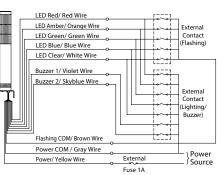
CURRENT RATINGS			
	LED	BUZZ	ER
Signal Line Current		Signal Line Current	Inruch Current
Red, Amber	Green, Blue, Clear	Signal Line Current	infusit Current
ab. 30mA	ab. 25mA	ab. 40mA	ab. 250mA

Wiring

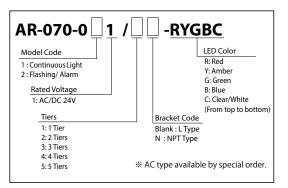
Lighting AC/DC 24V



Lighting/Flashing/Alarm AC/DC 24V



How to Order







AR-078





- Different lens colors available
- Stackable from 1 to 5 tiers

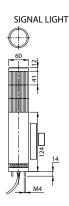
FEATURES

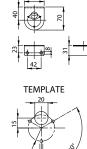
- Wall mount or direct mount
- Ingress protection of IP65 (IP54 with buzzer)
- Available with "flashing/ non-flashing" and two audible alarm sounds

Side-mount Bracket

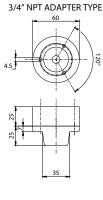
Explosion-Safe Signal Tower φ60mm with sealed cable

Dimensions (Unit: mm)





SIDE MOUNT BRACKET



Wiring

Lighting AC/DC 24V LED Red/ Red Wire LED Amber/ Orange Wir LED Green/ Green Wire LED Blue/ Blue Wire ED Clear/ White Wire <u>ة</u> Power/ Yellow Wire External + Source Fuse 1A

Lighting/Flashing/Alarm AC/DC 24V

LED Red/ Red Wire LED Amber/ Orange Wire Contact (Flashing LED Green/ Green Wire LED Blue/ Blue Wire LED Clear/ White Wire Buzzer 1/ Violet Wire Buzzer 2/ Skyblue Wire External . Contact (Lighting/ Buzzer) Flashing COM/ Brown Wire Power COM / Gray Wire Power + Source Power/ Yellow Wi

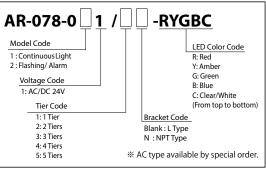
Specifications

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

Ø60

CURRENT RATINGS			
LED		BUZZE	R
Signal Line Current		Signal Line Current	Inruch Curront
Red, Amber	Green, Blue, Clear	Signal Line Current Inrush Cu	
ab. 30mA	ab. 25mA	ab. 40mA	ab. 250mA

How to Order





LKEH-EX

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

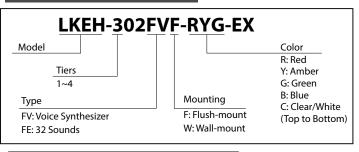
Explosion-Safe LED Hybrid Signal Tower

RoHS
C E (Ex)
LED
32 Channels (Bina
63 Seconds
105 dB at 1m

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

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	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

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

% Height	
*	142

℅Height 1 Tier: 265.2 2 Tiers: 325.3

3 Tiers: 385.4

4 Tiers: 445.5

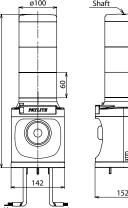
		Model	Rated Voltage	MP3, Melody	Operating Temperature Range	Recordable Duration	Mounting Brackets	Channels	Mass
	ק	LKEH-FEF-EX		Type-E	-10° C to $+50^{\circ}$ C	Due ve eeude d	Fluch_mount I	8ch bit input, 32ch binary input	2.8kg
		LKEH-FEW-EX		Type-E		Pre-recorded	Wall-mount	8ch bit input, 32ch binary input	3.2kg
		LKEH-FVF-EX	MPEG1-Audio Layer III, 64kbit/s	85% RH or less	(2	Flush-mount	5ch bit input, 32ch binary input	2.8kg	
152	16	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								



Model LKEH-FEW-EX, LKEH-FVW-EX ø100 Shaft

Dimensions (Unit: mm)

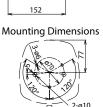
Explosion-Safe



%Height



Front



(Unit: mm)



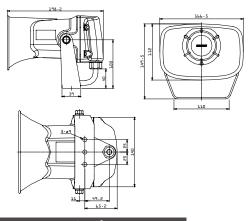
EHS-EX/EHV-EX CE 😔 II 3GD Ex nA IIC T4 Gc, Ex tc IIIC T85°C Dc IP65 94/9/EC (ATEX) CENELEC: EN 60079-0, EN 60079-15, EN 60079-31

EHS-EX **Explosion-Safe Melody/Alarm Horn** RoHS *χ*3, 63 Channels (Binary) **10** dB at 1m (EHS) **Explosion-Safe**

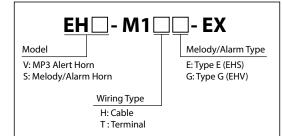
FEATURES

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

Dimensions (Unit: mm)

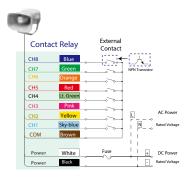


How to Order

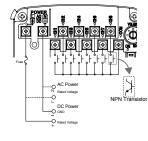


Wiring

Non-voltage (NPN) Wiring

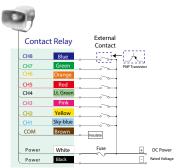


Terminal (NPN)



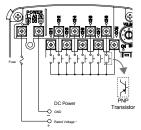
PNP Wiring

EHV



IP65

Terminal (PNP)



Specifications

•										
Model	Rated Voltage	Voltage Range	Power Consumption	Rated Current Consumption	Sound Pressure (max)	Operating Temperature Range	No. of Playback Messages	Protection Rating	Wiring Type	Mass
EHS-M1H-EX		DC 10.8V to 26.4V	4W (at DC24V)	450mA (max)	Alarm: 110dB (at 1m)	-20°C to +50°C	Bit Input: 8	IP65	Cable	1.251
EHS-M1T-EX	DC 12 - 24V	DC 10.8V to 26.4V	4W (at DC24V)	450MA (Max)	Alarm: TTUdB (at Tm)	(Less than 85% RH)	Binary Input: 32	1202	Terminal	1.25kg
EHV-M1H-EX	DC 12 - 24V	DC 10.8V to 26.4V	4W/(at DC24W)	400mA (max)	Alarm: 110dB (at 1m)	-20°C to +50°C	Bit Input: 8	IP65	Cable	1.2540
EHV-M1T-EX	DC 10.8V t0 20.4V	4W (at DC24V) 400	400mA (max)	MP3: 105dB (at 1m)	(Less than 85% RH)	Binary Input: 63	1202	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.



CLN-EX

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

Explosion-Safe LED Work Light



Daylight 🔒

FEATURES

- 820 lx brightness
- 60,000 hrs., or about 7 years of long service life (*1)
- IP66G, IP67G, IP69K protection (*2)
 Low current draw of 174mA

IP66G/67G/69K Explosion-Safe

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

How to Order Dimensions (Unit: mm) • Pan/Tilt Type (PT Type) CLN-24-CD-PT-EX 85 Lens Movable Type Body PT:Pan/Tilt 02 Cable Gland 128 [Cable Specifications] AWG22x2 wires 04.9 length: 3,000mm **Rear-mount Hole** Pan-bracket Tilt-bracket (2-M5, Pitch: 16) (4-M6, Pitch: 45)

Specifications

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



CLK-EX CE 😔 II 3GD Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc IP65 94/9/EC (ATEX) CENELEC: EN 60079-0, EN 60079-15, EN 60079-31 **Explosion-Safe LED Work Light** CLK6C-24AG-CD-EX



Ĥ

Daylight

Natural White

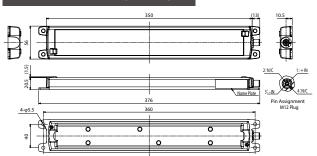
IP66G/67G/69K

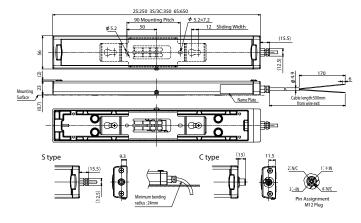
Explosion-Safe

FEATURES

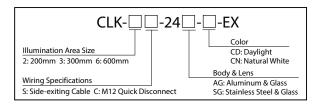
- CLK3S-24AG-CD-EX Aluminum Housing
- Tempered glass lens •
- IP66G/67G/69K ratings
- Explosion-safe for gas and dust
- Suitable for Zone 2 and Zone 22
- Temperature Range of -40°C to +60°C
- CE Compliance in accordance to ATEX • 1,200 lx (3S/3C) and 2,100 lx (6S) brightness
- · Outdoor installation allows Upright installation only
- LED Color Temperatures of 6,500K (CD) and 5,000K (CN)
- Stainless Steel Housing (available for 350mm long models) 250mm length (2S, 350mm length (3S/3C), 650mm length (6S) available

Dimensions (Unit: mm)





How to Order





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

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



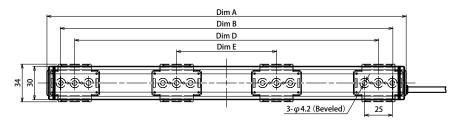
LA-E

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



- Polycarbonate mounting brackets available •
- Lenghts available are; 100mm (140 lx), 200mm (270 lx), 300mm (400 lx), • 600mm (650 lx), 900mm (810 lx), 1,200mm (890 lx), 1,500mm (945 lx)
- Temperature Range of -40°C to +60°C (RH 90% or less, no condensation)

Dimensions (Unit: mm)



Model	Dim A	Dim B	Dim D Dim E		Standard Bracket SZ-310AR	
Name	Total Length	Lighting Area	Mounting Pitch			
CLA1S	124	100	74	—		
CLA2S	224	200	174	—	2 8 6	
CLA3S	324	300	274		2 pcs.	
CLA6S	624	600	574			
CLA9S	924	900	874	290	1 pcc	
CLA12S	1,224	1,200	1,174	390	4 pcs.	

How to Order



Specifications

Model	Luminous Color	Length	Rated Voltage	Rated Current Consumption	Center Radiation (lx/50cm)	Mounting Direction	Vibration Resistance	Mass
CLA1S -24-CD-30-EX	Daylight	100mm	im 🛛	104mA	140 lx			80g
CLA2S -24-CD-30-EX	Daylight	200mm	208mA	270 lx			130g	
CLA3S -24-CD-30-EX	Daylight	300mm		240mA	400 lx]		180g
CLA3S -24-CN-30-EX	Natural White	500mm	DC 24V	240MA	400 1X	Any Direction (Indoors Only)	19.6m/s ²	1809
CLA6S -24-CD-30-EX	Daylight	600mm	(Polarized)		650 lx			340a
CLA6S -24-CN-30-EX	Natural White	00011111		400MA	050 1X			540g
CLA9S -24-CD-30-EX	Daylight	900mm		720mA	810 lx]		500g
CLA12S -24-CD-30-EX	Daylight	1200mm		960mA	890 lx			660g





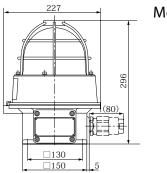
Robust Heavy Duty Revolving Warning Light.

FEATURES

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

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

Dimensions (Unit: mm)



Mounting Dimensions

Mounting Hole 4- ø9

30 130

Specifications

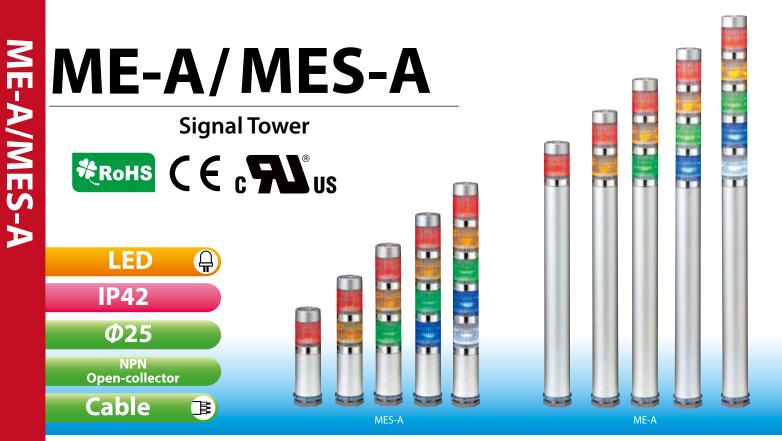
Model	Rated Voltage	Current	Flash Rate	Bu	Mass		
Model	Rated voltage	Current	(fpm)	Ratings	Repl. No.	IVIdSS	
C RES-12A	DC 12V	0.9A	170	12V 10W	9		
C RES-24A	DC 24V	0.5A	170	24V 10W	10		
© RES-48A	DC 48V	0.3A	150	48V 10W	11		
RES-100A	AC 100V - 110V	0.1A				6.5kg	
© RES-120A	AC 115V - 120V	0.14	170	12V 5W	12		
RES-220A	AC 200 - 220V	0.05A		120 300	12		
© RES-240A	AC 230 - 240V	0.05A					
Bulb:	Bulb: G18 BA15S						





Signal Tower





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

FEATURES

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

AVAILABLE BY SPECIAL ORDER

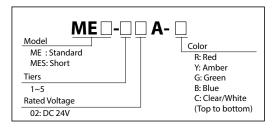
- Cable: Versatile and flexible 3m cable.
- IP65 (for ME/MES).
- PNP Compatible: ME and MES 24V Types.





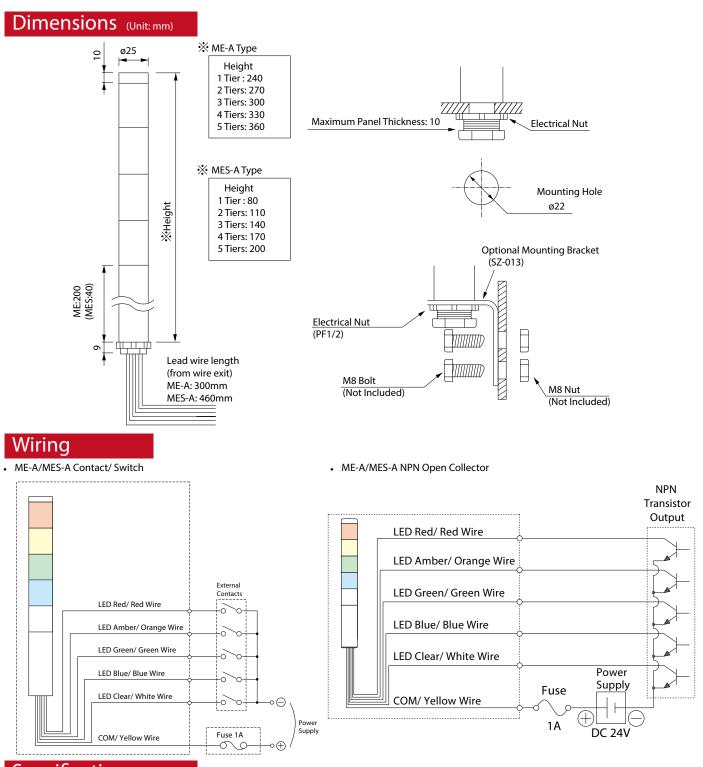
Easy to add and remove

How to Order



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

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



Specifications

Stack	Madal	Rated	Power	Mass	
Number			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 140g
2 Tiers	ME/MES-202A-RG		1.1W		
ZTIErs	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	
	ME/MES-302A-RYC		1.7W		
4 Tiers	ME/MES-402A-RYGB		2.3W	2500	150g
4 Hers	ME/MES-402A-RYGC		2.3W	250g	
5 Tiers	ME/MES-502A-RYGBC		2.8W	260g	160g

ME-A/MES-A

MP/MPS		ALAR
Signal Tower		
LED 🔒	_	
IP65		
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.



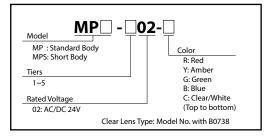
FEATURES

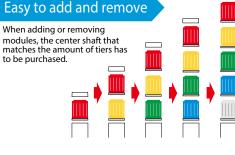
- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Double-insulated construction for enhanced durability and safety in the work environment. .
- Direct mount installation with just a single hole. •
- Interchangeable Modules need no re-wiring, 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. 195)

How to Order





Interchangeable LED Modules

۲M

- 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.

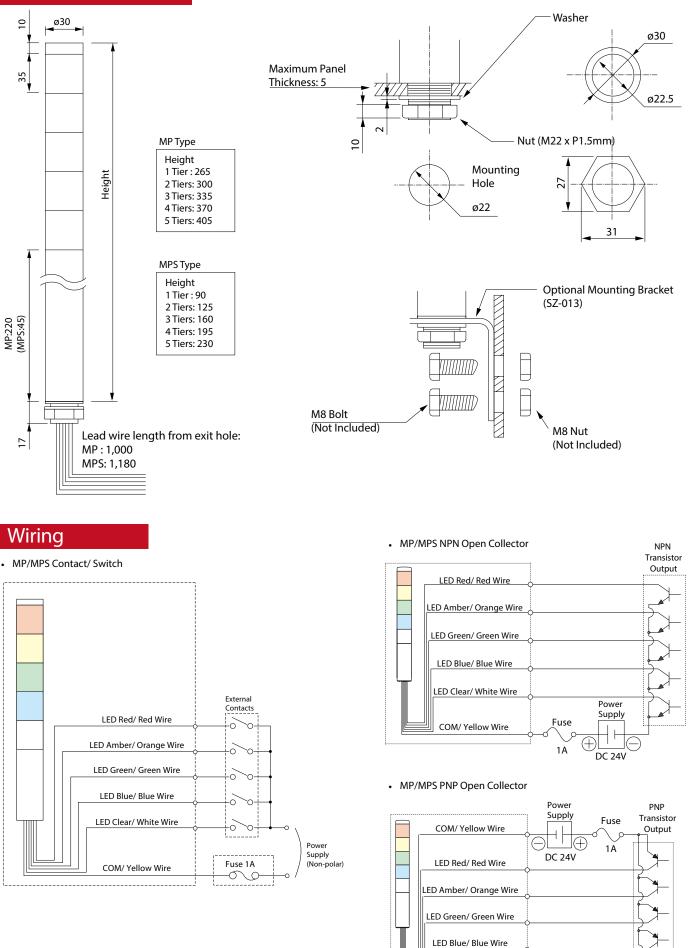
Specifications

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

anne:

MP/MPS





LED Clear/ White Wire



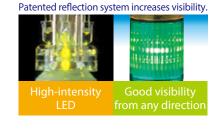
Super slim 30mm silver body Signal Tower with M12 disconnect.

FEATURES

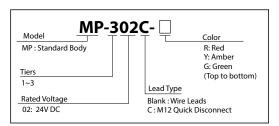
- Quick Disconnect M12 connector for the MP Signal Tower.
- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- · Double-insulated construction for enhanced durability and safety in the work environment.
- Direct mount installation with just a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



Optional MP-B Buzzer (See Pg. 195)



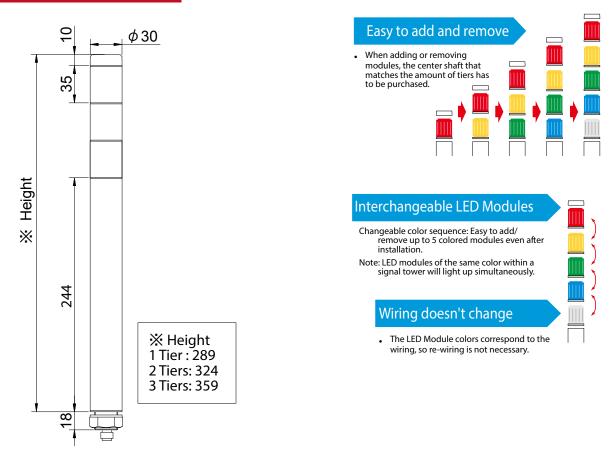
How to Order



Specifications

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

Dimensions (Unit: mm)



Wiring

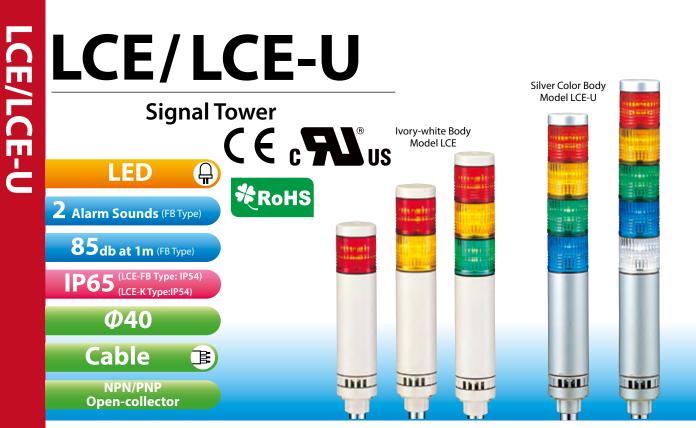
External Contact Capacity		I _s : Current Capacity		V_s : Withstand Voltage	
	Current Consumption	Red: 29.0mA	Amber: 29.5mA	Green: 23.9mA	
LED Unit (1 Tier)	Capacity	I₅≥50mA		V₅≥35V DC	
Dowor Supply	Current Consumption		200mA		
Power Supply	Capacity	I₅≥2	00mA	V _s ≥35V DC	

M12 Connector Pin No.

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

• MP-C M12 Connector







High visibility from any angle



Adjustable Volume (Max. 85dB at 1m)



System

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

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

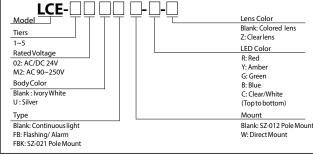
FEATURES

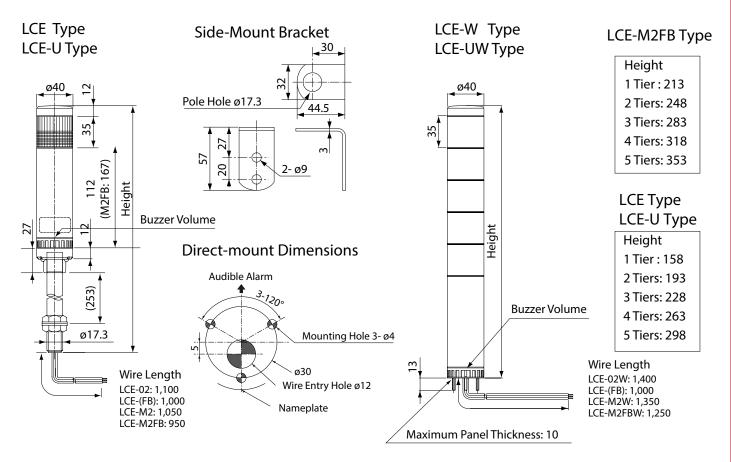
- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Two Built-in Alarms (FB Type) with selectable sound patterns.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

How to Order

- 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
1	When adding or removing I I I I I I I I I I I I I I I I
Lens Color	
Blank: Colored lens	
Z: Clear lens	Interchangeable LED Modules 💦 🚍
LED Color	
R: Red	
Y: Amber	Changeable color sequence: Easy to add/ remove up to 5 colored modules even after
G: Green B: Blue	installation
C: Clear/White	Note: LED modules of the same color within a
(Top to bottom)	signal tower will light up simultaneously.
Mount	
Blank: SZ-012 Pole Mount W: Direct Mount	
	Wiring doesn't change
	The LED Module colors correspond to the wiring, so re-wiring is not necessary.





Specifications

Stack	Model	Rated Voltage	Power		М	ass	
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
Zitters	LCE-2M2 AC 90 -250V 2.6W		2.6W	630g	270g	680g	320g
3 Tiers	LCE-302(U)	AC/DC 24V	3.0W	580g	220g	640g	280g
Shers	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 11ers	LCE-4M2	AC 90 -250V	3.8W	690g	330g	740g	380g
5 Tiers	LCE-502(U)	AC/DC 24V	4.2W	640g	280g	700g	340g
Jileis	LCE-5M2	AC 90 -250V	4.4W	720g	360g	770g	410g



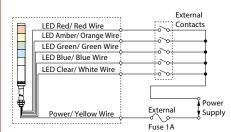


LCE/LCE-U

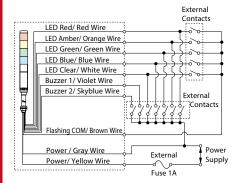
Wiring

CE/LCE-U

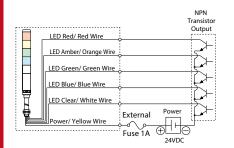
• AC/DC 24V Lighting Type



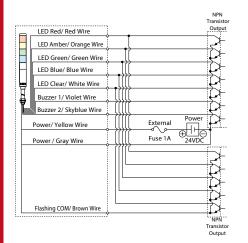
AC/DC 24V Lighting/Flashing Type



• DC 24V NPN Type



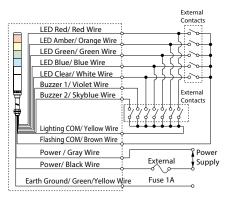
• DC 24V NPN FB Type



• AC 90 - 250V Lighting Type

	LED Red/ Red Wire LED Amber/ Orange Wire	External Contacts
	LED Green/ Green Wire	
	LED Clear/ White Wire	
H	COM/ Yellow Wire	
Ð	Power / Gray Wire	Power
	Power/ Black Wire	External Supply
Ear	th Ground/Green/Yellow Wire	Fuse 1A

• AC 90 - 250V Lighting/Flashing Type

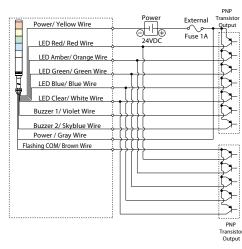


• DC 24V PNP Type

Π	LED Red/ Red Wire	Power	External
	LED Amber/ Orange Wire	⊖ <u> </u> 24VDC	Fuse 1A
	LED Green/ Green Wire		Бн.
	LED Blue/ Blue Wire		Бн.
Ī	LED Clear/ White Wire		<u> </u>
Ë	Power/ Yellow Wire		>
			PNP
			Transistor

Output

• DC 24V PNP FB Type

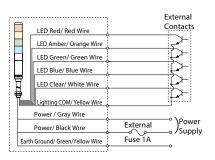


Lead-wire color coordination table

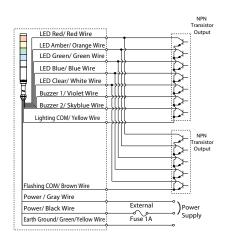
LED Unit Color	Lead Wire Color
Red	Red
Amber	Orange
Green	Green
Blue	Blue
Clear/White	White

Alarm Sounds	Lead Wire Color
Buzzer 1	Purple
Buzzer 2	Skyblue

• AC 90 - 250V NPN Type

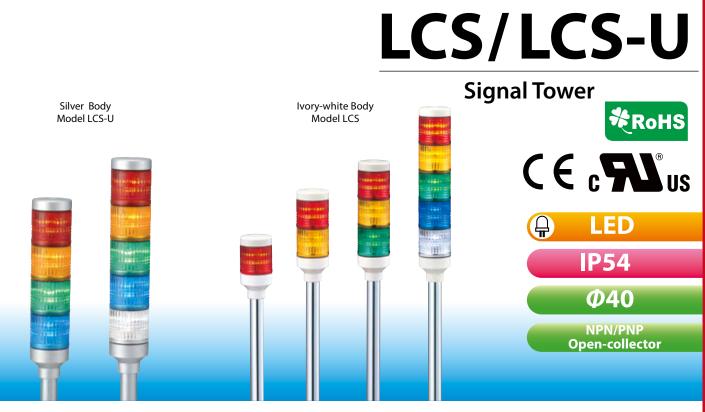


• AC 90 - 250V NPN FB Type



Signal Line voltage and current per LED Module

			LED			Alarm	
Model 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.



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





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

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)

wiring, so re-wiring is not necessary.

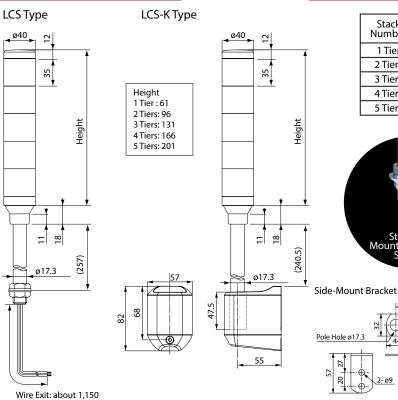
- All Clear Lenses: Distinctive color recognition when operated with clear lenses (B0738 type)
- · Available Colors: Red, Amber, Green, Blue, White

2	Easy to add and remove	How to Order	
	 When adding or removing modules, the center shaft that matches the amount of tiers has to be purchased. Interchangeable LED Modules Changeable color sequence: Easy to add/remove up to 5 colored modules even after installation. Note: LED modules of the same color within a signal tower will light up simultaneously. 	LCS- Model Tiers 1~5 Rated Voltage 02: AC/DC 24V Mount Blank: SZ-012 Pole Mount K: SZ-021 Pole Mount	Lens Color Blank: Colored lens Z: Clear lens LED Color R: Red Y: Amber G: Green B: Blue C: Clear/White (Top to bottom)
r-lens ire to	Wiring doesn't change		

.CS/LCS-U

Dimensions (Unit: mm)

Specifications



Stack	Model	Rated	Rated Power		Mass	
Number	Model	Voltage 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		



30

ø9

5



Wiring

AC/DC 24V Lighting Type External Contact LED Red/ Red Wire ò \sim LED Amber/ Orange Wire -0 \sim LED Green/ Green Wire -ò \sim LED Blue/ Blue Wire -0 δ LED Clear/ White Wire ò \sim A Power External Power/ Yellow Wire Source പ്പ 0 Fuse 1A

Lead-wire color coordination table

Lead Wire Color
Red
Orange
Green
Blue
White

Alarm Sounds	Lead Wire Color
Buzzer 1	Purple
Buzzer 2	Skyblue

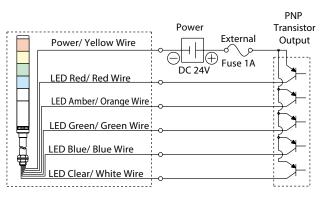
Signal Line voltage and current per LED Module

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

DC 24V NPN Type

NPN Transistor Output LED Red/ Red Wire LED Amber/ Orange Wire LED Green/ Green Wire LED Blue/ Blue Wire LED Clear/ White Wire Power External Power/ Yellow Wire Ð -----Fusĕ 1A 🕀 DC 24V

DC 24V PNP Type





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





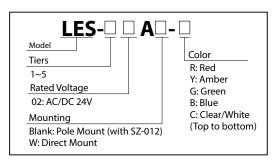
System PATLITE's original dual

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

FEATURES

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

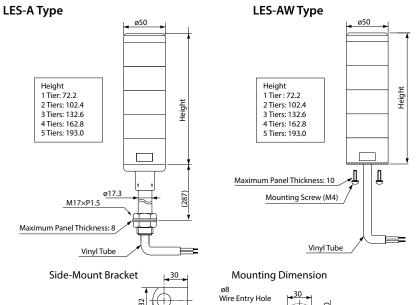
How to Order



Specifications

Stack N	Stack Number		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		2.2W	590g
	5 Tiers	LES-502A	AC/DC 24V	2.7W	600g
	1 Tier	LES-102AW	AC/DC 24V	0.6W	70g
Direct	2 Tiers	LES-202AW		1.2W	100g
Mount	Nount 3 Tiers LES-302A	LES-302AW		1.7W	130g
Туре	4 Tiers	LES-402AW		2.2W	160g
	5 Tiers	LES-502AW		2.7W	190g

Dimensions (Unit: mm)

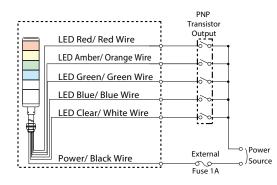


Lead-wire color coordination table

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

LES Model

AC/DC 24V Lighting Type



Signal Line Voltage

AC/DC 24V

Pole Hole ø17.3

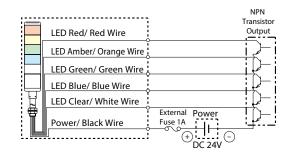
27

57 |20 | 44.5

2- ø9

^{φ8} <u>Wire Entry Hole</u> <u>30</u> <u>2- φ5</u> (M4 Through-hole) <u>Nameplate</u>

DC 24V NPN Type



DC 24V PNP Type

Alarm

Inrush Current

150mA

Signal Line Current

40mA

	Power/ Black Wire	Power DC 24V	External Fuse 1A	PNP Transistor Output
	LED Red/ Red Wire	(⊡:.!!.;⊕		<u>ib</u>
	LED Amber/ Orange Wire			īD-l
	LED Green/ Green Wire			TD-!
H	LED Blue/ Blue Wire			TD-1
Ĩ	LED Clear/ White Wire			-i
		í		L



Voltage Type

AC/DC 24V

Model

LES



Signal Line voltage and current per LED Module

R, Y

25mA

LED

Signal Line Current

G, C

20mA

В

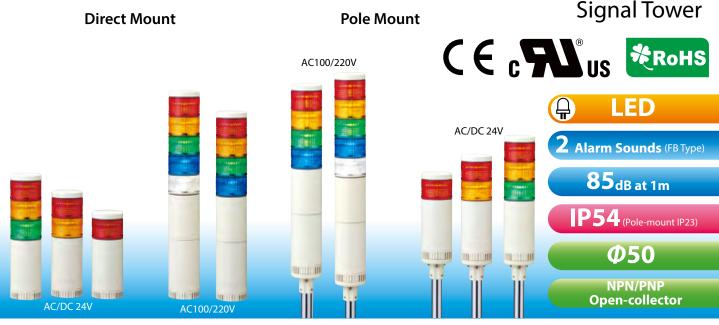
22mA











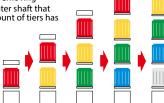
Versatile, cost and energy efficient LED Signal Tower for every need.



FEATURES

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

Easy to add and remove • When adding or removing modules, the center shaft that matches the amount of tiers has to be purchased.



Interchangeable LED Modules

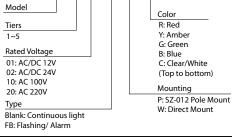
Changeable color sequence: Easy to add/ remove up to 5 colored modules even after installation.

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

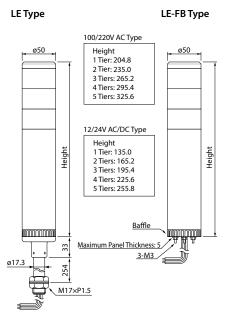
Wiring doesn't change

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

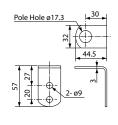
How to Order



Dimensions (Unit: mm)



Side-Mount Bracket



Mounting Dimension



Stack	Model	Rated Power		Ma	ass
Number	Model	Voltage	Voltage Consumption		(FB)W
	LE-101	AC/DC 12V	1.1W	6400	2600
1 Tier	LE-102	AC/DC 24V	1.6W	640g	260g
Iner	LE-110	AC 100V	5.7W	790~	400~
	LE-120	AC 220V	5.7 W	780g	400g
	LE-201	AC/DC 12V	1.7W	690g	310g
2 Tiers	LE-202	AC/DC 24V	2.2W	0909	Silvy
	LE-210	AC 100V	6.7W	830g	450g
	LE-220	AC 220V	0.7 W	830 <u>9</u>	430g
	LE-301	AC/DC 12V	2.2W	740g	360g
3 Tiers	LE-302	AC/DC 24V	2.7W	/40g	300g
5 Hers	LE-310	AC 100V	7.5W	880g	500g
	LE-320	AC 220V	7.570	8809	300g
	LE-401	AC/DC 12V	2.7W	790g	410g
4 Tiers	LE-402	AC/DC 24V	3.2W	/90g	4109
4 Hers	LE-410	AC 100V	8.3W	020-	550 m
	LE-420	AC 220V	8.3 W	930g	550g
	LE-501	AC/DC 12V	3.2W	040 <i>a</i>	460 a
5 Tiers	LE-502	AC/DC 24V	3.7W	840g	460g
5 ners	LE-510	AC 100V	9.1W	980g	600g
	LE-520	AC 220V	5.100	900g	l







Specifications

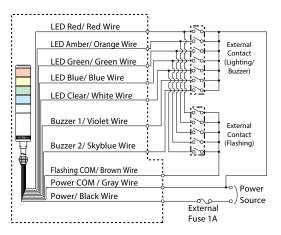


DND

DC 24V PNP Type

		Power DC 24V	External	Transistor
	Power/ Black Wire		Fuse 1A	Output
	LED Red/ Red Wire	⊡⊡⊕		<u>i</u>]}-
	LED Amber/ Orange Wire			<u>i</u> D-!
	LED Green/ Green Wire	, , ,		10-!
	LED Blue/ Blue Wire	r 		<u>i</u> D—i
: 🖶	LED Clear/ White Wire	5		j –
	<u></u>			L '

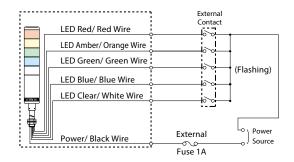
AC/DC 24V Lighting/Flashing Type



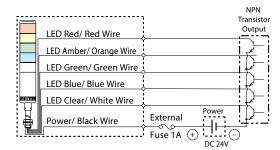
Wiring

LE Model

AC/DC 24V Lighting Type

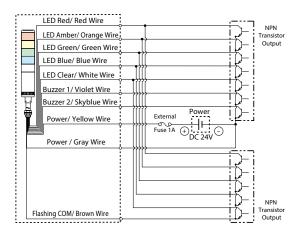


DC 24V NPN Type

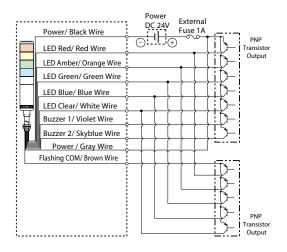


LE Model

DC 24V NPN FB Type



DC 24V PNP FB Type



Signal	Line	Voltage	and (Current	per	LED	Module

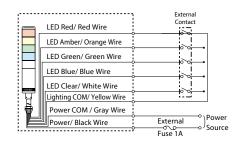
			LED		Alaı	m
Voltage Type	Signal Line Voltage	Sign	al Line Cu	rrent	Signal Line	Inrush
	Voltage		G, C	В	Čurrent	Current
AC/DC 12V	AC/DC12V	50mA	40mA	44mA		
AC/DC24V	AC/DC 24V	25mA	20mA	22mA	40mA	150mA
AC 100V, 220V	DC 24V	25mA	20mA	22mA		

Lead-wire color coordination table

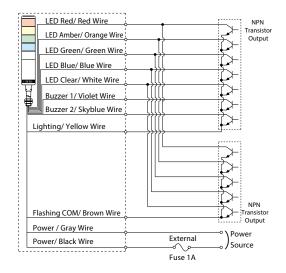
Lead Wire Color
Red
Orange
Green
Blue
White

Alarm Sounds	Lead Wire Color
Buzzer 1	Purple
Buzzer 2	Skyblue

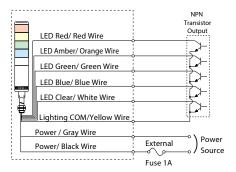
AC Power Lighting Type



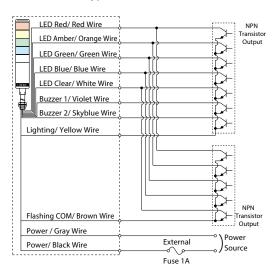
AC Power Lighting/Flashing Type



AC Power NPN Type



AC Power NPN FB Type





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

FEATURES

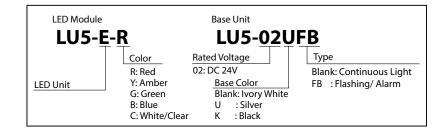
- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Two built-in alarms (FB Type) with selectable sound patterns.
- Maximum volume of up to 85dB (at 1m).
- Direct or pole* mount installation.
- · Color-coordinated Terminal block corresponding 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		21.6V - 26.4V	44mA/1.06W	44g
AMBER	LU5-E-Y				
GREEN	LU5-E-G	DC 24V		17mA/0.41W	
BLUE	LU5-E-B				
CLEAR	LU5-E-C				

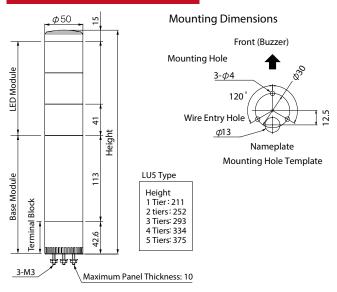
How to Order



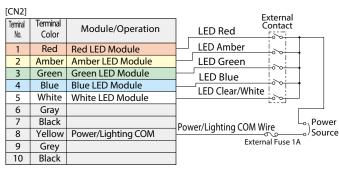
Specifications (Base)

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

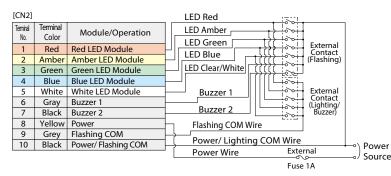
Dimensions (Unit: mm)



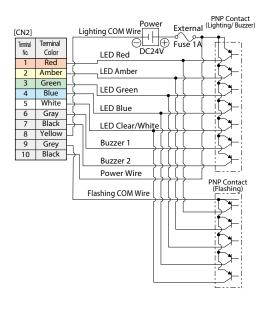
• AC/DC 24V Lighting Type



AC/DC 24V Lighting/Flashing Type

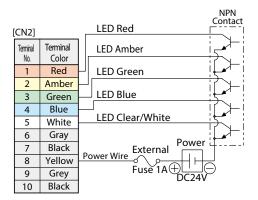


DC 24V PNP FB Type

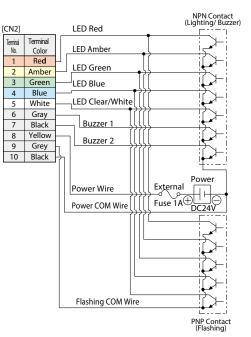


Wiring

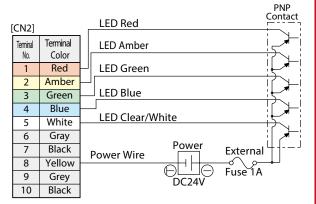
• DC 24V NPN Type



• DC 24V NPN FB Type

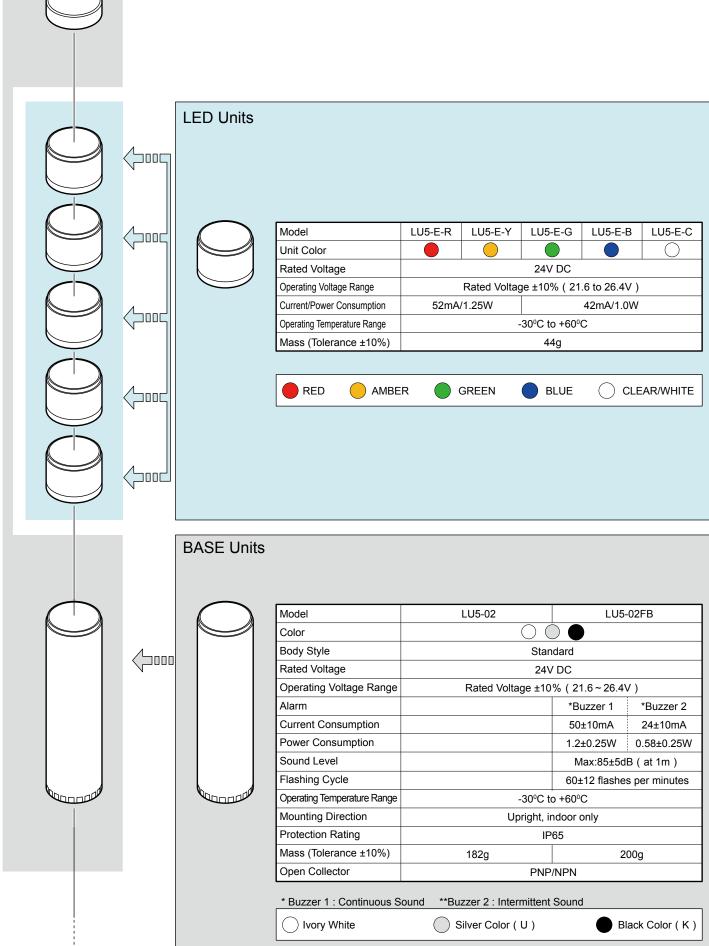


• DC 24V PNP Type



External Contact Capacity

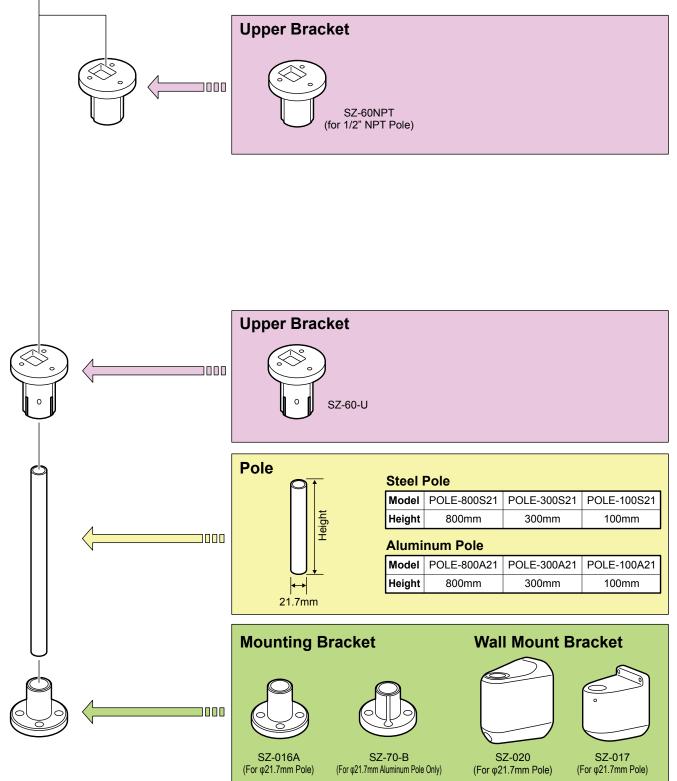
Specifications		24V DC		
LED Unit	Current Consumption	Red,Amber: 52mA Green,Blue,White/Clear: 42mA		
(1 Unit)	Contact Capacity	ls≥100mA, Vs≥35V AC		
Buzzer	Current Consumption	50mA		
	Inrush Current	100mA		
	Contact Capacity	ls≥100mA, Vs≥35V AC		
Power Supply	Current Consumption	360mA		
	Contact Capacity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



Optional Parts

72

Optional Parts



LME/LME-U/LME-N





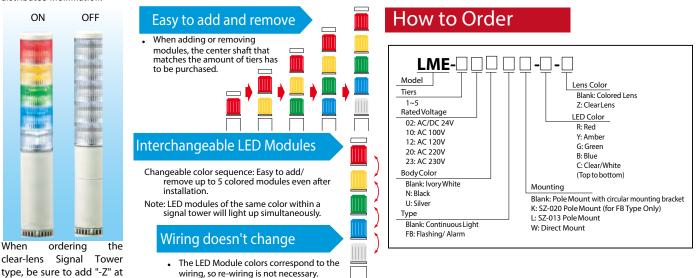
Versatile, cost and energy efficient LED Signal Tower for every need.





FEATURES

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

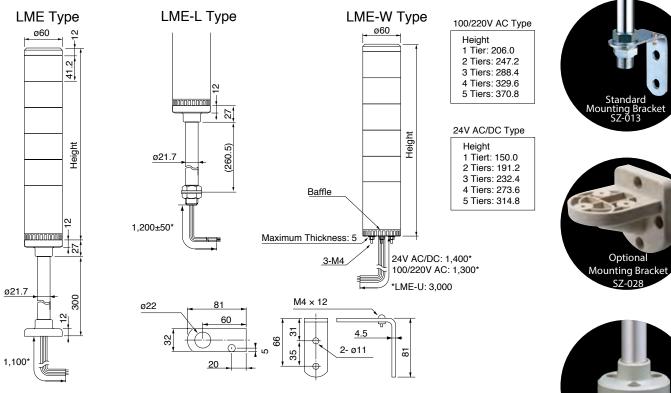


Dual Reflection System PATLITE's original dual reflection system with its exclusive hybrid prism-cut lens and five color LED modules, creates a bright and evenly distributed illumination

the end of the part number

when ordering.

Dimensions (Unit: mm)









Specifications

Stack		Rated	Power		Mass	
Number	Model	Voltage	Consumption	LME	LME LME-L	
	LME-102	AC/DC 24V	2.2W	0.43kg	0.73kg	0.27kg
	LME-110	AC 100V		1.0	1.001	
1 Tier	LME-112	AC 120V		0.001	1.06kg	0.521
	LME-120	AC 220V	5.1W	0.68kg		0.52kg
	LME-123	AC 230V				
	LME-202	AC/DC 24V	3.4W	0.48kg	0.78kg	0.32kg
	LME-210	AC 100V			1.10kg	
2 Tiers	LME-212	AC 120V	7.1W	0.73kg	1.10kg	0.57kg
	LME-220	AC 220V		0.73Kg	0.37	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	0.62kg
3 Tiers	LME-312	AC 120V	7.9W	0.78kg		
	LME-320	AC 220V	7.900			
	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	0.7 VV	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	9.5W	0.86kg	1.22KY	0.72kg
	LME-520	AC 220V	2.300	0.00Kg		0.72Kg
	LME-523	AC 230V				

Lead-wire color coordination table

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

Ala	rm Sounds	Lead Wire Color
	Buzzer 1	Purple
	Buzzer 2	Skyblue

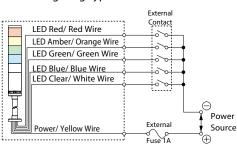
Signal Line voltage and current per LED Module

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

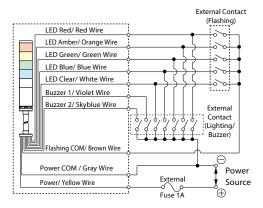
Wiring

ME/LME-U/LME-N

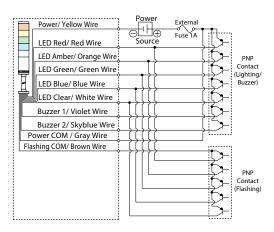




• DC 24V Lighting/Flashing Type



• DC 24V NPN FB Type



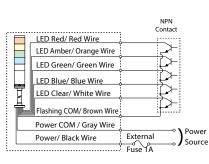
• DC 24V NPN Type

				External Contact
:	LED Red/ Red Wire			←
	LED Amber/ Orange Wire			5
	LED Green/ Green Wire			Ľ/-
	LED Blue/ Blue Wire			E-
Ţ	LED Clear/ White Wire			E-
t	Power/ Yellow Wire	External Fuse 1A	Power	

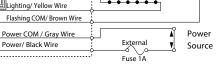
• DC 24V PNP Type

· · · · · · · · · · · · · · · · · · ·		Power/ Yellow Wire	Power DC 24V	External Fuse 1A	PNP Contac
ł		LED Amber/ Orange Wire	, 		D-
ł		LED Green/ Green Wire			TC+
į	Ā	LED Blue/ Blue Wire			ī6+
ł	È	LED Clear/ White Wire	,		75+
÷			,		t

• AC Power NPN Type



00000



External Contact

(Flashing)

00

2

External

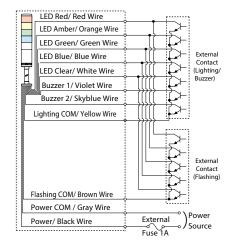
Contact

(Lighting

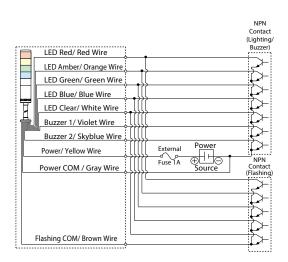
Buzzer)

-0-0-

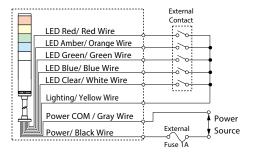
• AC Power NPN FB Type



• DC 24V PNP FB Type



• AC Power Lighting Type



AC Power Lighting/Flashing Type

LED Red/ Red Wire

LED Amber/ Orange Wire

LED Green/ Green Wire

LED Blue/ Blue Wire

LED Clear/ White Wire

Buzzer 1/ Violet Wire

۲

Buzzer 2/ Skyblue Wire







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





High visibility





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

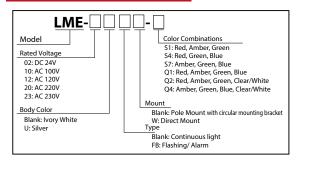
FEATURES

- PATLITE's exclusive 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



Specifications

Series	Stack	Model	Datad Valtage	Power	Ma	ass
Series	Number	Model	Rated Voltage	Consumption	LME	LME-W
		LME-102	DC 24V	2.2W	430g	270g
		LME-110	AC 100V	5.1W		
LME-S	1 Tier	LME-112	AC 120V		860g	520g
		LME-120	AC 220V			520g
		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	520-
		LME-120	AC 220V	5.170	0809	520g
		LME-123	AC 230V			

LME-S/LME-Q

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

S1: Red, Amber, Green



S4: Red, Green, Blue



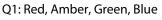


S7: Amber, Green, Blue



Dimensions (Unit: mm)

LME Type





Q2: Red, Amber, Green, Clear/White



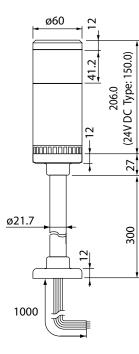
Q4: Amber, Green, Blue, Clear/White

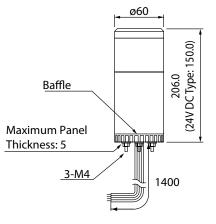


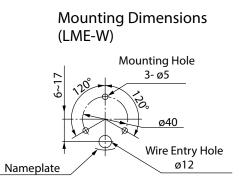
LME-W Type



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









Standard Circular Mounting Bracket (For LME with Aluminum Pole)

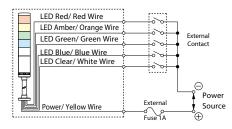






Wiring

• DC 24V Lighting Type



• DC 24V NPN Type

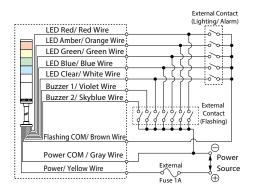
AC Power NPN Type

			External
	LED Red/ Red Wire		Contact
	LED Amber/ Orange Wire		
	LED Green/ Green Wire		
	LED Blue/ Blue Wire		[>+
Ţ	LED Clear/ White Wire		
t	Power/ Yellow Wire	External	Power
i		Fuse TA	⊕⊖ Source

AC Power Lighting Type

	LED Red/ Red Wire LED Amber/ Orange Wire LED Green/ Green Wire LED Blue/ Blue Wire LED Clear/ White Wire Lighting/ Yellow Wire	External Contact
ĺ	Power COM / Gray Wire Power/ Black Wire	External Fuse 1A

• DC 24V Lighting/Flashing Type

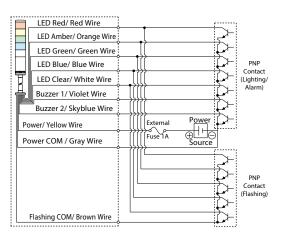


	LED Red/ Red Wire LED Amber/ Orange Wire LED Green/ Green Wire LED Blue/ Blue Wire LED Clear/ White Wire Flashing COM/ Brown Wire Power COM / Gray Wire	NPN Contact
•		Fuse 1A

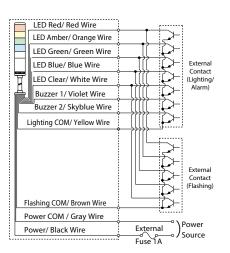
AC Power Lighting/Flashing Type

,			External Contact (Lighting/ Alarm)
	LED Red/ Red Wire		-
	LED Amber/ Orange Wire	, 	
	LED Green/ Green Wire		L L L
	LED Blue/ Blue Wire	(I	ζζιζ.Τ
	LED Clear/ White Wire		ζζιζ.Τ
	Buzzer 1/ Violet Wire		External
	Buzzer 2/ Skyblue Wire		Contact
I			(Flashing)
	Lighting/ Yellow Wire		•••
	Flashing COM/ Brown Wire		
	Power COM / Gray Wire		Power
	Power/ Black Wire	Extern	al Source
i. 		Fuse 1	A0

• DC 24V NPN FB Type



AC Power NPN FB Type



LME-S/Q Lead-wire Color Table

	EME 5/Q ECOO MIC COOL 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		

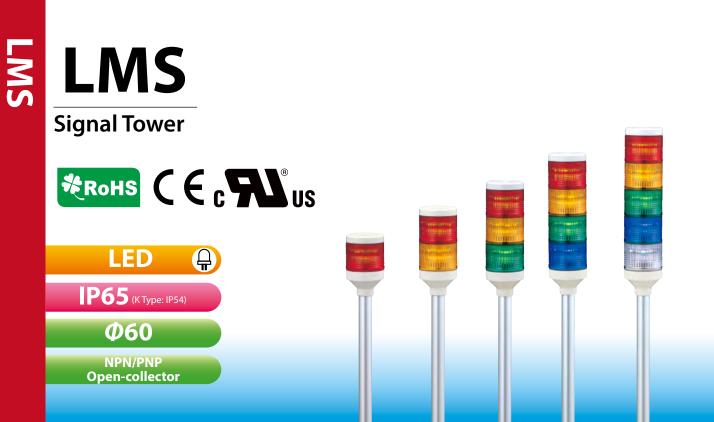
Signal Line voltage and current per LED Module

5		5			
<u> </u>		LE	D	Alaı	m
Rated Voltage	Signal Line Voltage	Signal Lin	e Current	Signal Line	Inrush
voltage	voltage	R, Y			Current
DC 24V	DC 24V				
AC 100V					
AC 120V		50mA	20mA	40mA	250mA
AC 200V	DC 24V	JUNA		40MA	
AC 220V					
AC 230V					

Lead-wire color coordination table

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

able	Alarm Sounds	Lead Wire Color
lor	Buzzer 1	Purple
	Buzzer 2	Skyblue



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





High visibility from any angle

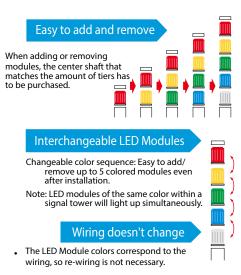
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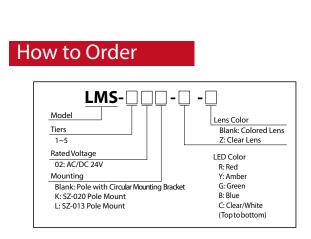
FEATURES

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



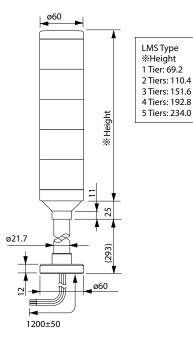
When ordering the clear-lens Signal Tower type, be sure to add "-Z" at the end of the part number when ordering.



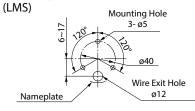


Dimensions (Unit: mm)

LMS

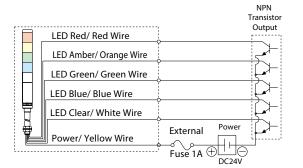


Mounting Dimensions



Wiring

DC 24V NPN Type



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- Nn	ecit	icati	ions
SP	CCII	Cuu	
-			

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



LMS-K

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47.5

68

(LMS-K)

35

82

(226)

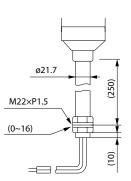
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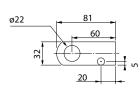
Mounting Dimensions

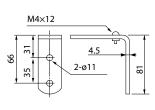
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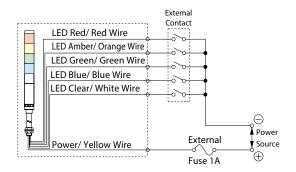




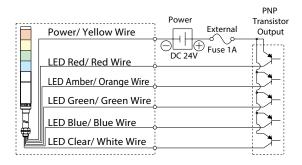




• AC/DC 24V Lighting Type



• DC 24V NPN FB Type









81



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

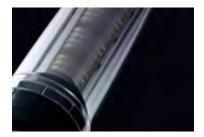
How to Order

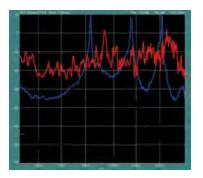
LED Signal Tower	① No. of Lighting Units 3:3 Tiers 5:5 Tiers	 Body Color No Mark:Off-white D: Dark Gray S: Silver 	(3) Lighting No Mark:Illumination Only F: Illumination Flashing	 ④ Buzzer No Mark: No Buzzer B: Buzzer 	⑤ Wiring C:M12 Connector H:Lead Wires [※]	6 LED Color R:Red Y:Yellow G:Green B:Blue
Ex.: LS7-302WC-RYGNN *Body ColorOff-white *BuzzerNone +LED Colors:Red, Yellow, G	 LightingIllumination WiringM12 Connector reen, (Blank), (Blank) 	※F type m	odels with Illumination•Flasl nodels (M12 Connector Type	ning are only available	for Lead Wire and requi	C:White N:Blank res an H mark.

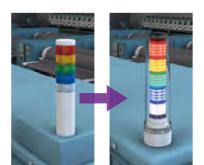
Specifications

	Number						Onembine			Ma	ISS:	
Model	Number of Lighting			Rated Current	rrent Maximum	Maximum Sound	Operating Temperature	Protection	Lead-wir	e Type (H)	M12 Connect	tor Type (C)
Moder	Units	Voltage	Mounting	Consumption	Rated Current	Pressure	Range	Rating	Illumination (No Mark)	Illumination/Flash/ 2 Alarms (FB)	Illumination (No Mark)	1 Alarm (B)
LS7-302	3 Tiers	DC 24V	Direct (Indoors	Red: 20mA Amber, Green, Blue,	Red: 35mA Amber, Green, Blue,	Buzzer1 ab. 82dB Lead-wireType (Intermittent Beep1) M12 ConnectorType (Continuous Beep)	-30°Cto+60°C (Less than	Illumination Type: IP65*	280g	370g	260g	320g
LS7-502	5 Tiers	(±10%)	Only)	Clear/White 30mA Alarm 40mA	Clear/White 40mA Alarm 55mA	Buzzer2 ab. 85dB Lead-wireType (Intermittent Beep2) M12 ConnectorType (None)	85% RH)	Buzzer Type: IP54	±10%	±10%	±10%	±10%

* IP67 available by special order







A smooth-surfaced body without any metal exposed

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

A sound heard throughout various environments

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

the M12 connector.

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

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

Easy attachment, no need for Relay Box

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





M12 Connector Wiring & Tiered Construction

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

Stackable Construction



High-contrast Visibility

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

Remarkable display in ANY environment

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

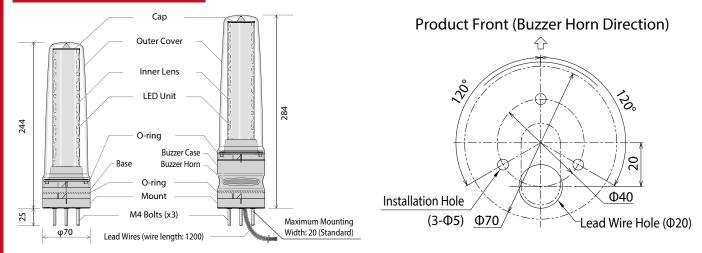


All-plastic Bracket

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



Dimensions (Unit: mm)



Optional Parts

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

Platform Bracket SZ-100







Wall Mounting Bracket SZ-110



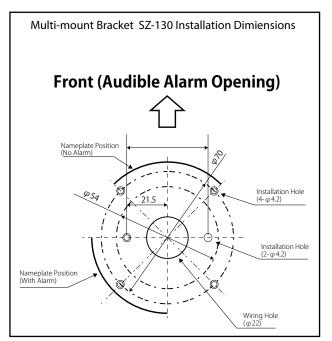


Multi-mount Bracket SZ-130









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

*Only for connecting to the LS7.



Outer Cover for LS7*

Material: Polycarbonate

O-ring for LS7 Material: Silicone

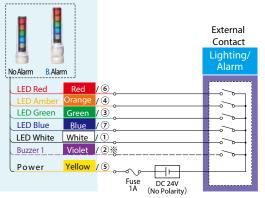
Replacement Parts

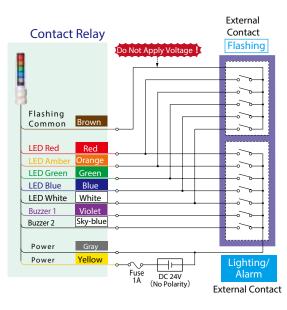
Mount Cover for LS7 (Accessory)

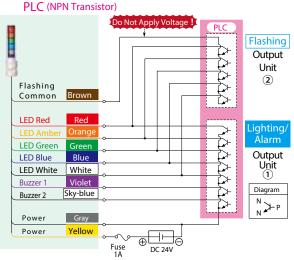
Material: Silicone

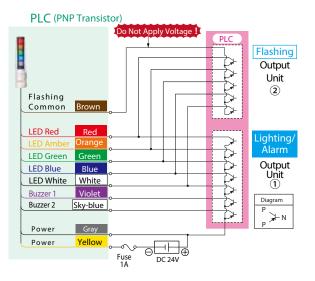
Wiring

Contact Relay



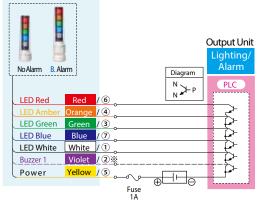




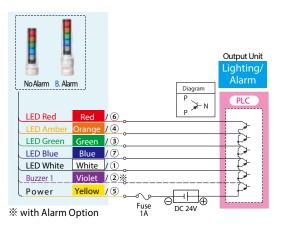


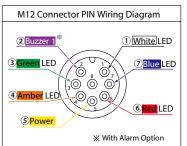
Note: When connecting the PLC outputs for illumination and flashing functions, the wiring (Common Wires) has to be separate between the flashing and non-flashing circuits.

PLC (NPN Transistor)



PLC (PNP Transistor)





LU7

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



Ultra Bright LEDs combined with an Innovative Prism Lens Design

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



Color-coordinated & Spring-loaded Terminal Block

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



Wiring Terminals

Two user-selectable Alarms Integrated in the Base Module

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



Delivers Sounds up to 90dB (at 1 m)

Alarm can be easily heard over ambient noise.

Modular Design

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



Modular Construction

O-rings

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



IP65 & IP66 with Optional Cable Gland

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





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

FEATURES

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

How to Order		
LED Module LU7-E-R Model Unit E : LED Unit XE: Strobe Unit Color R: Red Y: Amber G: Green B: Blue C: White/Clear		
Long Base Unit	Short Base Unit	
LU7-O2UFB Model Rated Voltage 02: DC 24V M2: AC 100 - 240V Base Color Blank: Vory White U : Silver K : Black	Alarm <u>Rated Voltage</u> 02: DC 24V M2: AC 100 - 240V	JFB Type Blank: Continuous light FB: Flashing/ Alarm Base Color Blank: Ivory White U : Silver K : Black

Specifications (Base)

LU7 Base Units	r				LU7-02M2	-		r				
Model	LU7-02S	LU7-02	LU7-	LU7-02FB		LU7-02M2FB		Unit Color V	ariation			
Rated Voltage		DC	24V		AC 100	0 to 240V (50/	(60Hz)		Short Body			
Operating Voltage Range		DC 21.	6 - 26.4V		AC 90	to 250V (50/	60Hz)	Ivory White	Silver	Black		
Alarm	-	_	Buzzer 1*	Buzzer 2**	—	Buzzer 1*	Buzzer 2**	0	0	0		
Current Consumption	-	—	50±10mA	24±10mA	—	50±10mA	24±10mA					
Power Consumption	-	_	1.2±0.25W	0.58±0.25W	_	1.8±0.25W	1.3±0.25W	-				
Sound Level	_		ind Level — I		Max: 90±5	idB (at 1m)	_	Max: 90±5	dB (at 1m)	LU7-02S	LU7-02SU	LU7-025k
			Min: 70dB o	r less (at 1m)		Min: 70dB o	r less (at 1m)		Standard Body			
Flash Cycle	-	_	60±12 flashe	es per minute	—	60±12 flashe	es per minute					
Operating Temperature Range		-30°C	to +60ºC		-	25°C to +55°C	2	-				
Mounting Direction			Up	oright, Indoor	Only							
Protection Rating			IP65 (IP	66 with Cable	e Gland***)							
Mass (±10%)	150g	250g	28	0g	310g	34	0g	And and a second second				
Open Collector		PNF	P/NPN			NPN]				
*Buzzer 1: Continuous **Buzzer 2	2: Intermittent	***Cable Gla	and to be supp	lied by user				LU7-02/M2	LU7-02U/M2U	LU7-02K/M		

er 1: Continuous zzer 2: Intermittent Cable Gland to be supplied by user

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

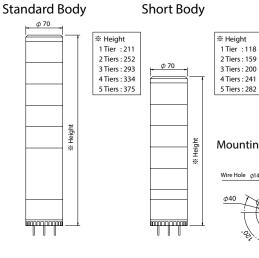
LU7 LED Strobe Units**					
Model	LU7-XE-R	LU7-XE-Y	LU7-XE-G	LU7-XE-B	LU7-XE-C
Unit Color	LED Unit Red	LED Unit Amber	LED Unit Green	LED Unit Blue	LED Unit Clear/White
Rated Voltage			DC 24V		
Current Consumption	290)mA	140mA	270mA	280mA
Mass (±10%)			70g		

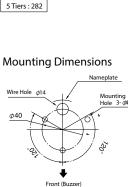
**Operates with LU7-02, LU7-02S, and LU7-02FB bases only. When using with LU7-02FB, the module should be controlled by the continuous common wire.

Dimensions (Unit: mm)

LU7

LU7-02S Short Body





3 Tiers : 200

4 Tiers : 241

Wiring

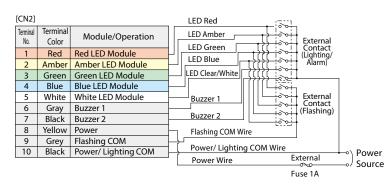
C	Contact Capacity		AC 100 - 240V			
Spe	ecifications	DC 24V	AC 100 - 240V			
	Current		Red,Amber: 52mA			
LED Unit	Consumption	Green	,Blue,White/Clear: 42mA			
(1 Unit)	Contact	ls	≥100mA, Vs≥AC 35V			
	Capacity					
	Current		50mA			
	Consumption					
Alarm	Inrush Current	100mA				
	Contact	ls≥100mA,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

Wiring (cont.)

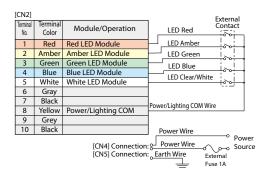
AC/DC 24V Lighting Type

[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	LED Blue
4	Blue	Blue LED Module	LED Clear/White
5	White	White LED Module	LED Clear/ Willite
6	Gray		
7	Black		Power/Lighting COM Wire
8	Yellow	Power/Lighting COM	Source Source
9	Grey		External Fuse 1A
10	Black		

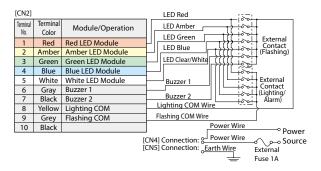
AC/DC 24V Lighting/Flashing Type



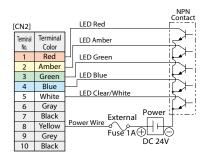
AC Power Lighting Type



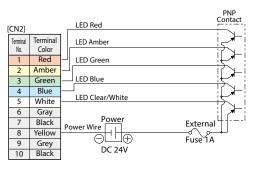
AC Power Lighting/Flashing Type



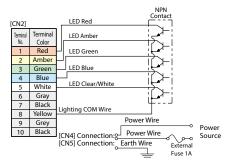
DC 24V NPN Type



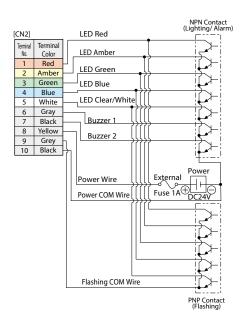
DC 24V PNP Type



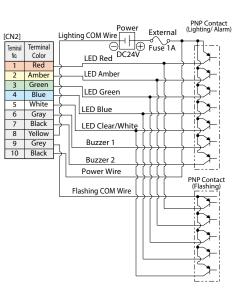
AC Power NPN Type



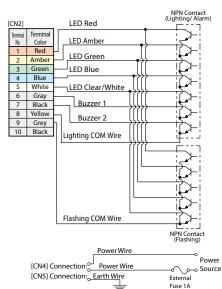
DC 24V NPN FB Type



DC 24V PNP FB Type



AC Power NPN FB Type



LU7

LU7

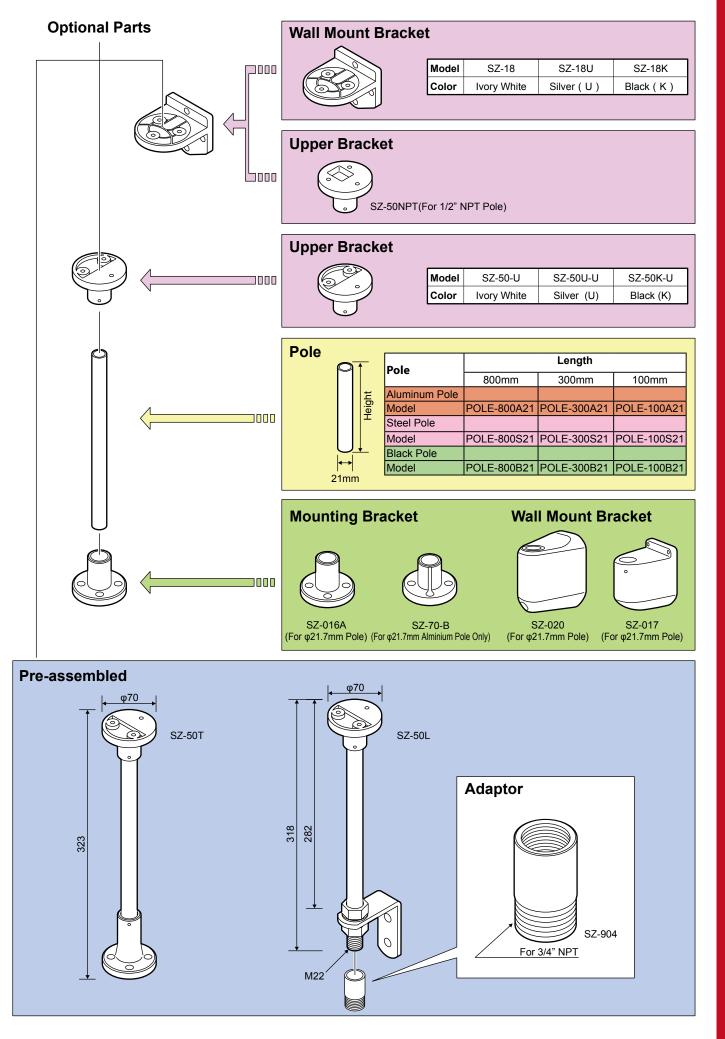
Voice and Alarm Module

Model	LU7-LB	LU7-V1
Туре	Alarm Module	Voice Synthesizer Module
Rated Voltage	24V DC	24V DC
Power Consumption	3.6W	3.5W
Mass (±10%)	140g	170g

4	LED Units		Γ	Γ		I	
		Model	LU7-E-R	LU7-E-Y	LU7-E-G	LU7-E-B	LU7-E-C
, I		Unit Color					
		Rated Voltage			24V DC		
		Operating Voltage Range		Rated Volta	ge±10%(21	.6~26.4V)	
كسط		Current/Power Consumption	52mA	/1.25W		30mA/0.72W	
		Operating Temperature Range			-30°C ~ +60°(0	
		Mass (±10%)			60g		
Cond	LED Strobe	Module Model Unit Color	LU7-XE-R	LU7-XE-Y	LU7-XE-G	LU7-XE-B	LU7-XE-C
		Rated Voltage			24V DC		
		Power Consumption	290mA	290mA	140mA	270mA	280mA
لكسط		Mass (±10%)			70g		
		RED AMBE	ir 🌔 (GREEN	BLUE	CLE	AR/WHITE

Base Units

	Model	LU7-02S	LU7-02	LU7-02FB	LU7-M2	LU7-M2FB	
	Color						
	Base Type	Short	S	tandard	s	tandard	
	Rated Voltage		24V DC)	90~250	V(50/60Hz)	
	Operating Voltage Range	Rated Volta	age±10% (21.6~26.4V)	90~250	V(50/60Hz)	
	Alarm		-	*Buzzer 1 **Buzzer 2	-	*Buzzer 1 **Buzzer 2	
	Current Consumption		-	50±10mA 24±10mA	-	50±10mA 24±10mA	
	Power Consumption		-	1.2±0.25W 0.58±0.25W	-	1.8±0.25W 1.3±0.25W	
Standard Pady	Sound Level	-		Max:90±5dB (at 1m)		Max:90±5dB (at 1m)	
Standard Body	Sound Level			Min:70dB or Less (at 1m)	-	Min:70dB or Less (at 1m)	
\frown	Flashing Cycle		-	60±12 flashes per minute	-	60±12 flashes per minute	
	Operating Temperature Range	-30°C ~ +60°C			-25°C ~ +55°C		
	Mounting Direction	U	pright, Indo	or only	Upright, Indoor only		
	Protection Rating	IP65			IP65		
	Mass (±10%)	150g	250g	280g	310g	340g	
Short Body	Open Collector		PNP/NP	N	NPN		
,	* Buzzer 1 : Continuous S	ound **B	uzzer 2 : In	termittent Sound	t		
	Vory White Silver (U) Black (K)						
	L						







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

FEATURES

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

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

Stackable audible alarm

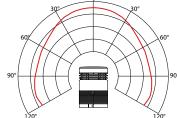
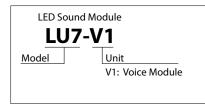


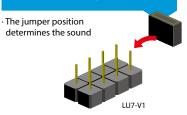
Diagram 1. Sound Direction



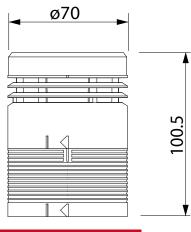
How to Order



Selectable playback sound



Dimensions (Unit: mm)



Specifications

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

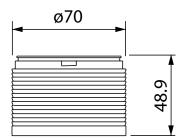


Stackable LED strobe module saves energy and requires low maintenance.

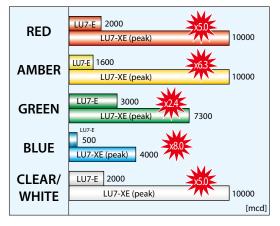
FEATURES

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

Dimensions (Unit: mm)



Brightness Comparison





LHE-A Signal Tower





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



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

FEATURES

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

Easy to add and remove



Interchangeable LED Modules

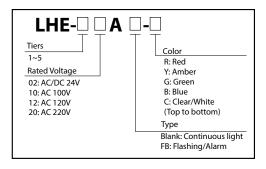
- Changeable color sequence: Easy to add/remove up to 5 colored modules even after installation.
- Note: LED modules of the same color within a signal tower will light up simultaneously.

t cha

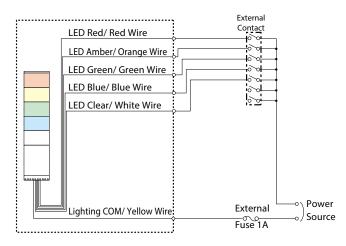
Wiring doesn'

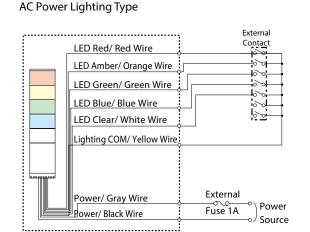
• The LED Module colors correspond to the wiring, so re-wiring is not necessary.

How to Order

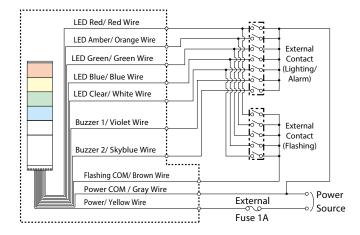


AC/DC 24V Lighting Type

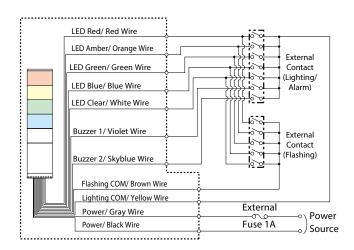




AC/DC 24V Lighting/Flashing Type



AC Power Lighting/Flashing Type



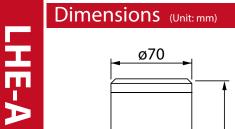
Signal Line voltage and current per LED Module

	<i>c</i>	LE	D	Alarm		
Rated Voltage	Signal Line Voltage	Signal Line Current			Inrush	
	ronage	R, Y	G, C, B	Current	Current	
AC/DC 24V	AC/DC 24V	50mA	40mA			
AC 100V				40mA	150mA	
AC 120V	DC 24V	50mA	40mA	40MA	TSUMA	
AC 220V						

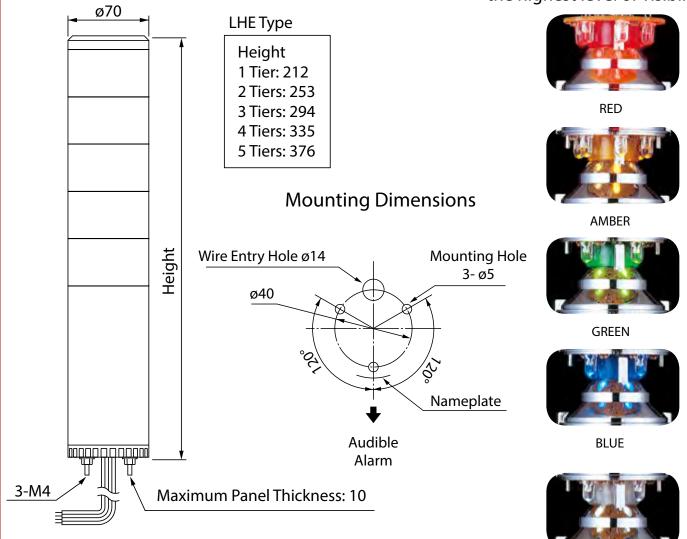
Lead-wire color coordination table

LED Unit Color Lead Wire Color Red Red Amber Orange			
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



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



CLEAR/WHITE

Specifications

96

Cto als Numero an	Madal	DatadValtaria	Devuer Concurrention	Mass	
Stack Number	Model	Rated Voltage	Power Consumption	Mass	
1 Tier	LHE -102A/AFB	AC/DC 24V	2.2W	400g	
	LHE -110A/AFB	AC 100V			
1 Hei	LHE -112A/AFB	AC 120V	4.7W	650g	
	LHE -120A/AFB	AC 220V			
	LHE -202A/AFB	AC/DC 24V	3.4W	450g	
2 Tiors	LHE -210A/AFB	AC 100V			
2 Tiers	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			
5 Hers	LHE -312A/AFB	AC 120V	7.9W	750g	
	LHE -320A/AFB	AC 220V			
	LHE -402A/AFB	AC/DC 24V	5.4W	550g	
4 Tiers	LHE -410A/AFB	AC 100V			
4 Hers	LHE -412A/AFB	AC 120V	9.4W	800g	
	LHE -420A/AFB	AC 220V			
	LHE -502A/AFB	AC/DC 24V	6.4W	600g	
c T :	LHE -510A/AFB	AC 100V			
5 Tiers	LHE -512A/AFB	AC 120V	10.9W	850g	
	LHE -520A/AFB	AC 220V	1	5	



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.

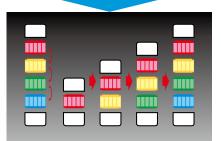
Interchangeable LED Modules

FEATURES

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

Available Colors are in Red, Amber, Green, Blue, and Clear/White.

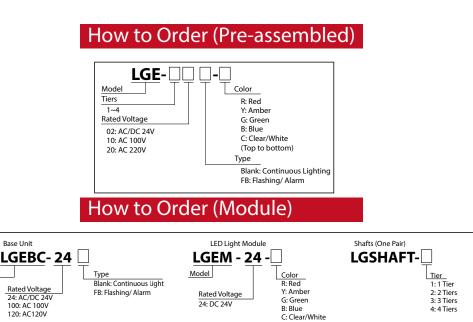
Has the CE mark and conforms to the requirements for the EC directive. (for 24V type)



LED Tiers are changeable, even after installation.

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

Model



5 "Super Bright" LED Colors to choose from!



Red

Green

Amber



Blue

Clear/White





Specifications (Pre-assembled)

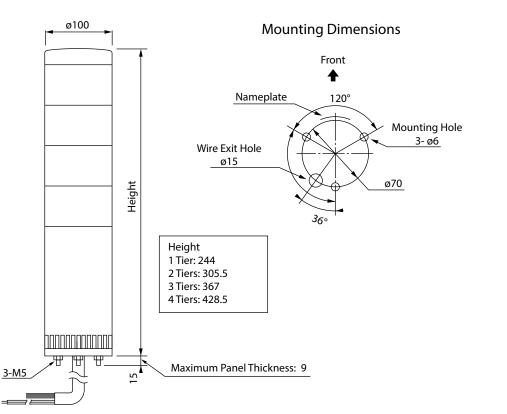
(No Alarm)							
Light System	Model	Rated Voltage	Power Consumption	Mass			
	LGE-102	AC/DC 24V	2.0W	0.4kg			
1 Tier	LGE-110	AC 100V	5.2W	1.0kg			
	LGE-120	AC 220V	5.200	1.0kg			
	LGE-202	AC/DC 24V	4.0W	0.6kg			
2 Tiers	LGE-210	AC 100V	7.7W	1.2kg			
	LGE-220	AC 220V	7.700	1.2K <u>y</u>			
	LGE-302	AC/DC 24V	6.0W	0.8kg			
3 Tiers	LGE-310	AC 100V	10.2W	1.41.0			
	LGE-320	AC 220V	10.200	1.4kg			
	LGE-402	AC/DC 24V	8.0W	0.9kg			
4 Tiers	LGE-410	AC 100V	12.7W	1.5kg			
	LGE-420	AC 220V	12.7 VV	т.эку			

Alarm Type (Intermittent Rate: ab. 60 beeps per min)							
Light System	Model	Rated Voltage	Power Consumption	Mass			
	LGE-102FB	AC/DC 24V	2.5W	0.4kg			
1 Tier	LGE-110FB	AC 100V	5.7W	1.0kg			
	LGE-120FB	AC 220V	5.7 VV	т.оку			
	LGE-202FB	AC/DC 24V	4.5W	0.6kg			
2 Tiers	LGE-210FB	AC 100V	8.2W	1.2kg			
	LGE-220FB	AC 220V	0.200	i.zkg			
	LGE-302FB	AC/DC 24V	6.5W	0.8kg			
3 Tiers	LGE-310FB	AC 100V	10.7W	1.41.0			
	LGE-320FB	AC 220V	10.7 W	1.4kg			
	LGE-402FB	AC/DC 24V	8.5W	0.9kg			
4 Tiers	LGE-410FB	AC 100V	13.2W	1 5kg			
	LGE-420FB	AC 220V	13.200	1.5kg			

Specifications (Modules)

Light Unit	Color	Rated Voltage	Power Consumption	Power Unit	Rated Voltage	Operation	Part No.	Light Units per Base			
LGEM24-R	RED						LGEBC-100	AC 100V		LGSHAFT-1	1
LGEM24-Y	AMBER]		LGEBC-120	AC 120V	Continuous	LGSHAFT-2	2			
LGEM24-G	GREEN	AC/DC 24V	2.0W	LGEBC-24	AC/DC 24V		LGSHAFT-3	3			
LGEM24-B	BLUE]		LGEBC-100FB	AC 100V	Cantinuard	LGSHAFT-3	3			
LGEM24-C	CLEAR			LGEBC-120FB	AC 120V	Continuous/ Flashing/Alarm	LGSHAFT-4	4			
				LGEBC-24FB	AC/DC 24V	riasining/Alarin					

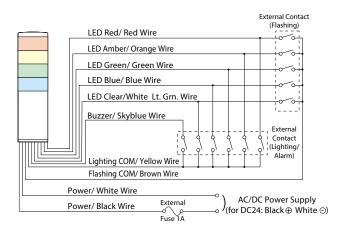
Dimensions (Unit: mm)







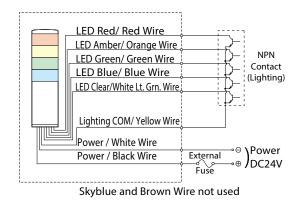
AC/DC 24V Lighting/Flashing Type



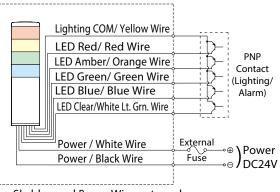
Signal Line voltage and current per LED Module

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

DC 24V NPN Type

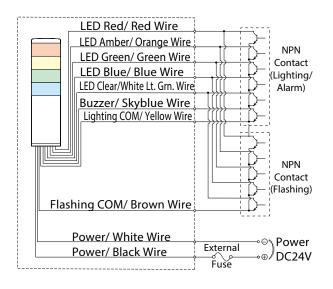


DC 24V PNP Type

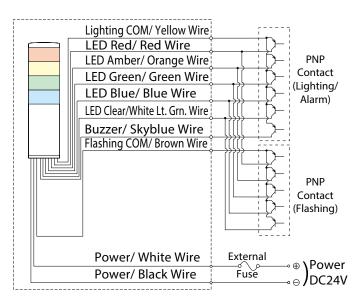


Skyblue and Brown Wire not used

DC 24V NPN FB Type



DC 24V PNP FB Type



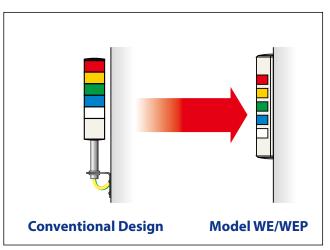


Ultra slim half-moon shaped Signal Tower offers seamless integration with most equipment.

FEATURES

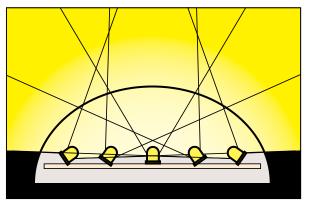
- · Clear vertical-cut lens for enhanced illumination over a wide perspective.
- Has an optional built-in audible alarm (FB type) with an output of 90dB (at 1m).
- Installation can be vertical or horizontal.
- Two body color selections of chrome plated or ivory white.
- · Lens made of superior impact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



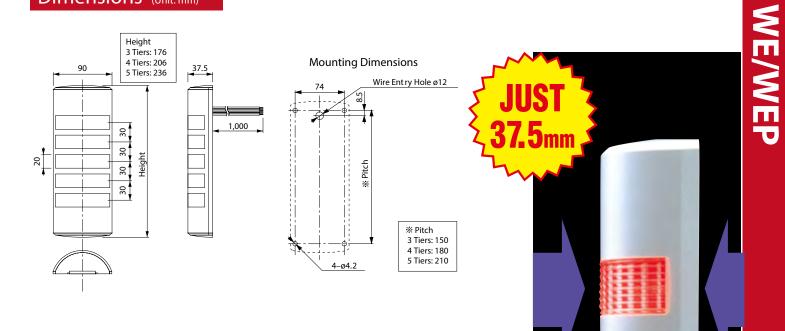
Patlite has perfected a 37.5mm-thin design that significantly enhances integration with the equipment as a built-in signal system.

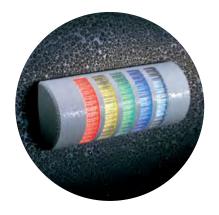
Exclusively New LED Lighting Design



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.

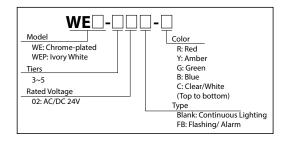
Dimensions (Unit: mm)





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

How to Order



Specifications

Stack Number	Model	Rated Voltage	Power Consumption	Mass
3 Tiers	WE(P)-302		1.7W	260g
5 Hers	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
STIELS	WE(P)-502FB		3.7W	350g

Alarm Sounds	Lead Wire Color	
Buzzer 1	Purple	
Buzzer 2	Skyblue	

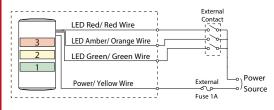
Signal Line voltage and current per LED Module

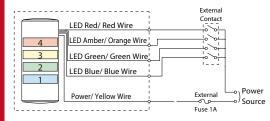
		<u>.</u>	LED		Alar		
Model	Rated Voltage	Signal Line Voltage	Signal Lin	e Current	Signal Line	Inrush]
	ronage	ronage	R, Y	G, B, C	Current	Current	
WE/WEP	AC/DC 24V	AC/DC 24V	30mA	25mA	40mA	250mA]

1 l

Wiring

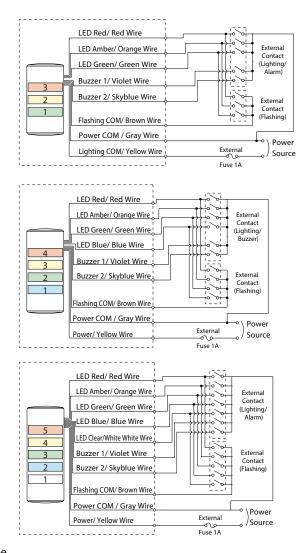
AC/DC 24V Lighting Type





5 4 3 2	LED Red/ Red Wire LED Amber/ Orange Wire LED Green/ Green Wire LED Blue/ Blue Wire LED Clear/White White Wire	External Contact
	Power/ Yellow Wire	External Power Source Fuse 1A

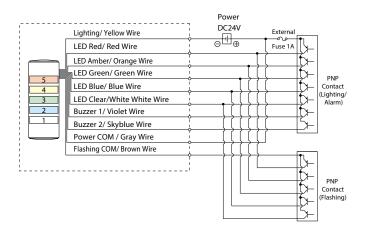
AC/DC 24V Lighting/Flashing Type



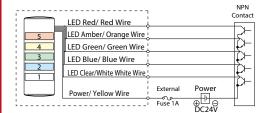
DC 24V PNP Type

	Power/ Yellow Wire	Power DC24V	External	PNP Contact
5	LED Red/ Red Wire	; ⊖⊔⊕ ↓	Fuse 1A	_th
4	LED Amber/ Orange Wire	Υ ι Ο		()
3	LED Green/ Green Wire	í Á		£–
	LED Blue/ Blue Wire			t>−_
	LED Clear/ White Wire	Y 1		ے ا
	,	i		

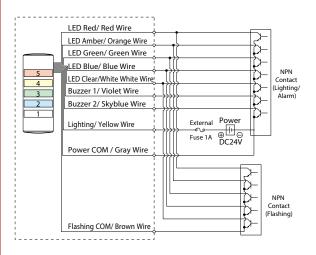
DC 24V PNP FB Type



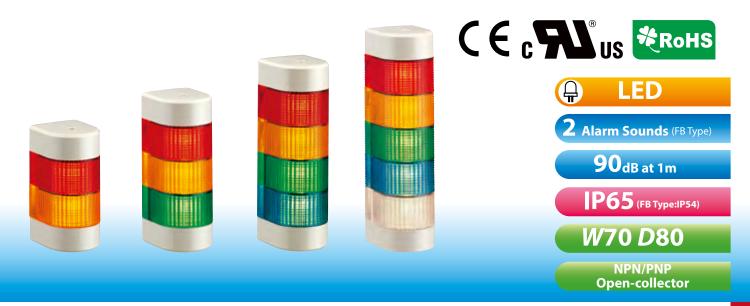
DC 24V NPN Type



DC 24V NPN FB Type







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

Interchangeable LED Modules

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LED Tiers are changeable, even after installation.

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

FEATURES

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

Exclusively New LED Lighting Design



Amber







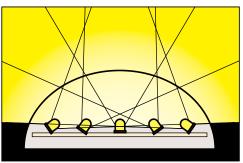
Green



Blue

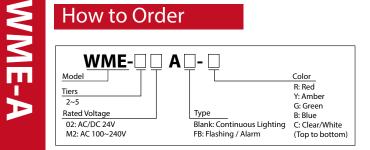


Clear/White



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



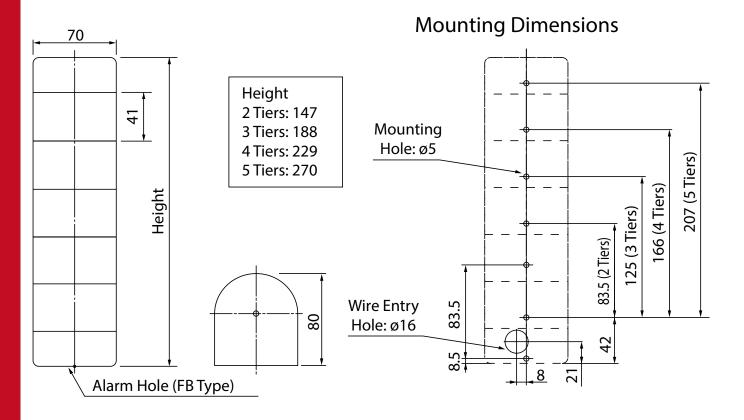
Specifications

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

Signal Line voltage and current per LED Module

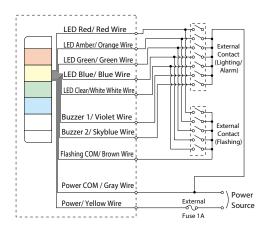
					Alaı		
Model	Rated Voltage	Signal Line Voltage			Inrush		
		voltage	R, Y	G, B, C	Čurrent	Current	
	AC/DC 24V	AC/DC 24V	35mA	50mA	40mA	250mA	
WME-A	AC 100V - 240V	DC 24V	SSIIIA	SUMA	40MA	250MA	

Dimensions (Unit: mm)

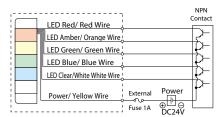


- The LED Colors are stackable, even after installation.
 - However, the applicable Center Shaft and backplate needs to be purchased.
- Install with the alarm in the downward direction in order to preserve the IP54 rating.

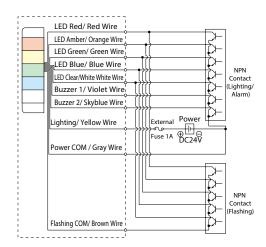
AC/DC 24V Lighting/Flashing Type



DC 24V NPN Type



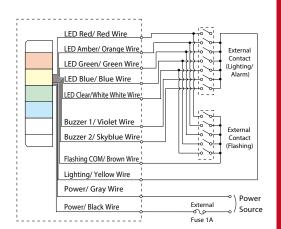
DC 24V NPN FB Type



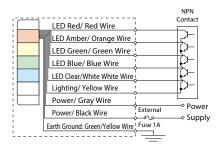
DC 24V PNP Type

	 		Power		PNP
if		Power/ Yellow Wire	DC24V	External	Contac
	Γ	LED Red/ Red Wire	Į́⊖Ш⊕	Fuse 1A	<u>t</u> F
		LED Amber/ Orange Wire	, ,		_tb–
÷.		LED Green/ Green Wire	i 5		_t⊅–
-		LED Blue/ Blue Wire	, , ,		_t≻–
	 l	LED Clear/White White Wire	۰ ۶		┶╌
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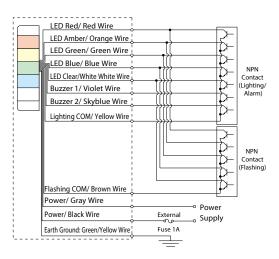
AC Power Lighting/Flashing Type



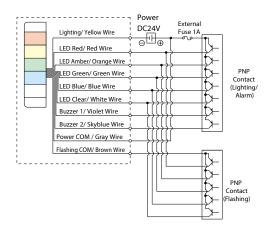
AC Power NPN Type

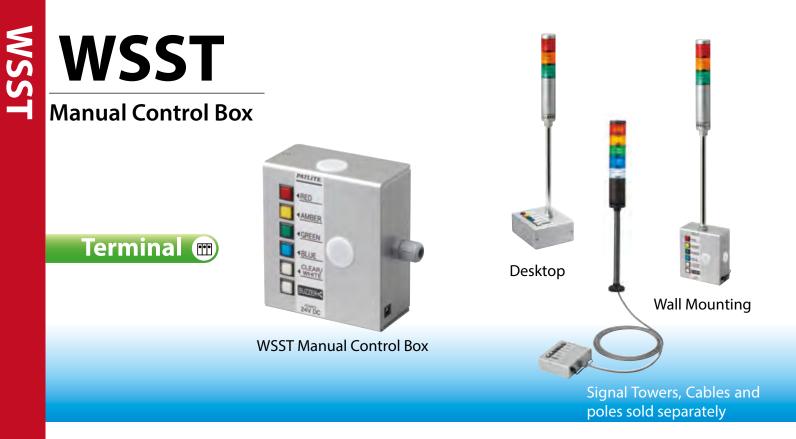


AC Power NPN FB Type



DC 24V PNP FB Type





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

APPLICATIONS

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

FEATURES

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

How to Order

WSST-KIT Package Description KIT: Complete Kit includes - Control Box - Cable Gland - 16mm Plug (1pc) - 22mm Plug (2 pcs) - Instruction Manual - Power Supply CB: Complete Kit (excluding Power Supply) PS: Power Supply Only

Specifications

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



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

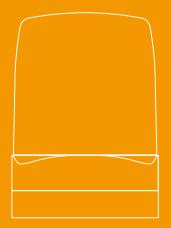
FEATURES

- 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.

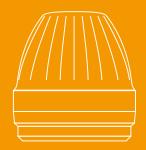
HSST-312						
11351-3	Package Description					
	312: Complete Kit including					
	- 3 button Control Box					
	- Control Box mounting screws - 3 tiered Signal Tower (Red, Amber, Green)					
	- AC 120V Power Adaptor					
	- 4 ft. cable for Signal Tower					
	- 3 " Pole (80mm) - 12" Pole (300mm)					
	- Pole Mounting Brackets					
	- Instruction Manual					

Specifications

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



Signal Lights



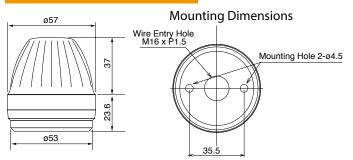


NE Series LED Dome Indicator Light; The dome-shaped globe provides increased visibility while the LEDs provide years of maintenance-free operation.

FEATURES

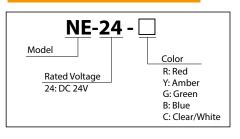
- Enhanced Illumination with the use of long-life, super bright LEDs.
- Low power consumption increases energy efficiency.
- · High vibration-resistance and unnecessary bulb replacement makes it maintenance-free.
- Uses a terminal block for easy wiring.
- Applications are suitable for small tooling machines,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

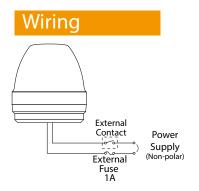
Dimensions (Unit: mm)



Specifications

Model	Color	Rated Voltage			Mass
NE-24-R	RED		0.63W		
NE-24-Y	AMBER		0.03 W		
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		







KHE features three flashing patterns for diverse applications.

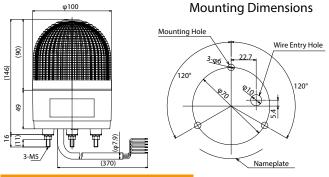
FEATURES

- 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

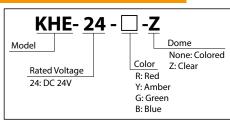
Dimensions (Unit: mm)



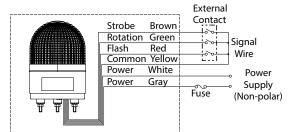
Specifications

Model Color		Rated	Power		Mass		
Woder Color	Voltage	Consumption	Flash	Rotation	Strobe	IVIdSS	
	RED		0.21/1/				
KHE-24	AMBER DC 2414	DC 24V	8.2W	55 ±10%	175 ±10%	75 ±10% fps	450a
GREEN	GREEN		10.1W	fps	fps	(double-flash)	430g
	BLUE		21.6W				

How to Order



Wiring





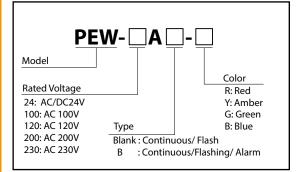
Dome shape LED Signal Light featuring enhanced visibility and maintenance-free operation.

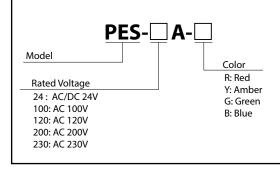
FEATURES

- Has maintenance-free LED's that consume nearly half the power incandescent bulb models (AC100V/200V) do.
- Newly-developed triple-reflection system for enhanced visibility and low power consumption.
- PEW-B type has a built-in adjustable audible alarm with a volume of up to 85dB (at 1m).
- Indoor installation can be upright, inverted or sideways; Outdoors is for upright only.
- The PES is rated for IP55 with the optional rubber gasket SZ-210 (IP23 without SZ-210).
- Has the CE mark and conforms to the requirements for the EC directive. (for 24V type)
- Is a UL Recognized Component (File No. E215660, for 24V, 120V, 230V types only).
- Dome is made of superior weather resistant and light translucent acrylic resin.
- Three flashing patterns of 60/120/180 fpm, switch selectable.
- The PEW is rated for IP54 (IP23 with side-wire exit mounting)
- Available colors are in Red, Amber, Green, and Blue.
 AVAILABLE BY SPECIAL ORDER
- Body Color: Silver
- IP65: PEW type only



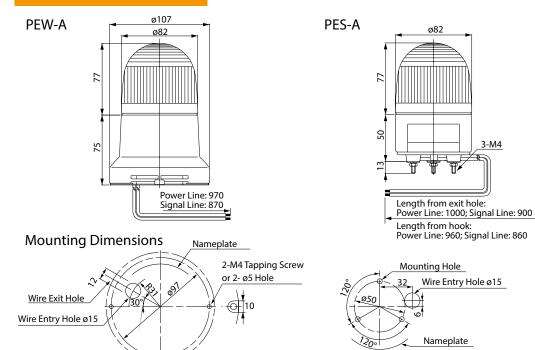




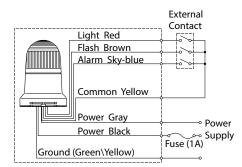


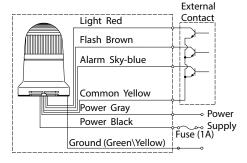
PEW-A/PES-A

Dimensions (Unit: mm)



Wiring





* All Models have the same wiring

* Sky-blue signal wire is for buzzer type only

* Ground wire is added for high-voltage types only

Specifications

		r				
Model	Color	Rated Voltage	Power Consumption	Inrush Current	Mass	
	R/Y		1.2W		220-	
PEW-24A	G/B		1.5W		320g	
PEW-24AB	R/Y	AC/DC 24V	2.2W	2.5A	340g	
FEW-24AD	G/B	1	2.5W		340g	
PEW-100A	R/Y		2.8W		520 <i>a</i>	
PEW-100A	G/B	AC 100V	3.3W		520g	
PEW-100AB	R/Y	ACTOOV	5.3W	1.0A	540g	
PEW-IOUAD	G/B		5.8W			
PEW-120A	R/Y		3.0W		520 <i>a</i>	
PEW-120A	G/B	AC 120V	3.5W		520g	
PEW-120AB	R/Y	AC 120V	5.7W		540g	
PEW-120AD	G/B		6.2W			
PEW-200A	R/Y		2.5W		520a	
FEW-200A	G/B	AC 200V	3.2W		520g	
PEW-200AB	R/Y	AC 200V	4.9W		540g	
PEW-200AD	G/B		5.6W	0.5A	540g	
PEW-230A	R/Y		3.1W	0.5A	520g	
PEVV-230A	G/B	AC 230V	3.8W		520g	
PEW-230AB	R/Y	AC 230V	5.9W		540g	
FEW-ZOUAB	G/B		6.4W		540g	

Model	Color	Rated Voltage	Power Consumption	Inrush Current	Mass
PES-24A	R/Y	AC/DC 24V	1.2W	2.5A	240g
PES-24A	G/B	AC/DC 24V	1.5W	2.5A	240g
PES-100A	R/Y	AC 100V	4.2W		
PES-TOUA	G/B	AC 100V	4.7W	1.0A	430g
PES-120A	R/Y	AC 120V	4.4W	1.0A	
FES-120A	G/B	AC 120V	4.9W		
PES-200A	R/Y	AC 200V	4.0W		
PES-200A	G/B	AC 200V	4.7W	0.5A	
PES-230A	R/Y	AC 230V	4.6W	0.3A	
	G/B	AC 250V	5.3W		

3-M4



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

FEATURES

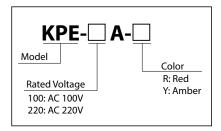
- Enhanced design with special high-intensity illumination to improve light diffusion and ensure sufficient brightness, even outdoors.
- Internally adjustable flashing cycle between 50 and 200 times per minute.
- Extended long-life with LEDs so no bulb replacement is needed, perfect for "hard-to-service" 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

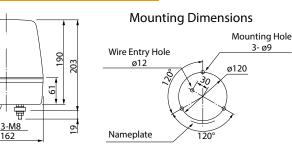
Model	Rated Voltage	Power Consumption	Flash Rate	Mass
KPE-100A	AC 100V	Continuous: 4W	50 - 200 rpm	
KPE-220A	AC 220V	Flashing: 9W	60 fpm	1.5kg

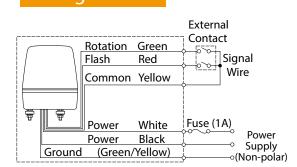
How to Order

Wirina



Dimensions (Unit: mm)





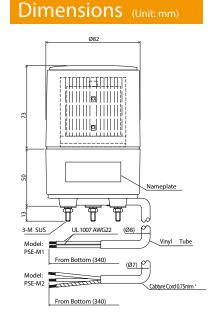
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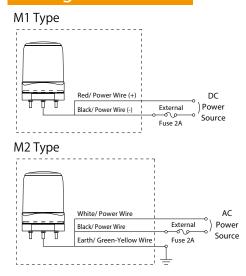
New LED flashing beacon! Can outlast a conventional Xenon lamp and is available in four LED Colors.

FEATURES

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

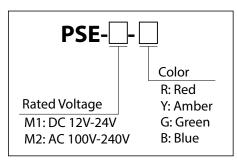


Wiring



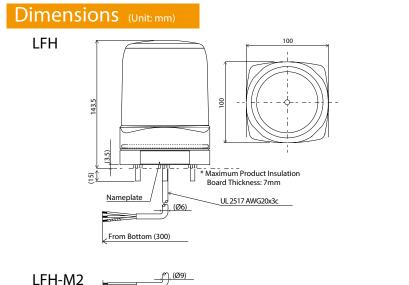
Specifications

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

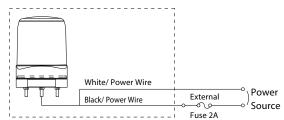




New LED flashing beacon! Available in five outdoor visible LED Colors and has UL certification.



UFH-M2

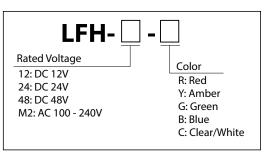


Specifications

From Bottom (300)

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

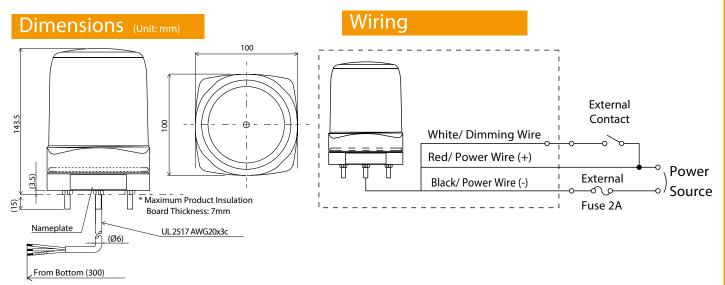
How to Order



*1 LFH-48 not CE certified.



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	0.23A	0.17A	
Operating Ambient Temperature Range	-20°C to +60°C			
Protection Rating	IP55			
Mounting Location	Indoor or Outdoor Use		or Use	
Flash Rate	140 ±14	140 ±14fpm (Triple-flash)		
Certifications	CE ^{*1} , RoHS, ECE			
Mass		0.5kg		

*1 LFK-48 not CE certified.

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



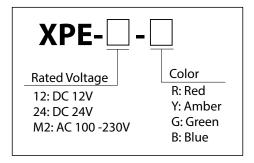
New LED flashing beacon! Available in four LED Colors.

FEATURES

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

Specifications

Model	XPE-12	XPE-24	XPE-M2		
Rated Voltage	DC 12V	DC 24V	AC 100 - 230V		
Voltage Range	DC 9.5-15V DC 20 - 3		AC 90 - 250V		
Current Consumption	0.50A	0.23A	0.12A (at 100VAC)		
Operating Ambient Temperature	-30°C to +70°C		-20°C to +60°C		
Protection Rating		IP23			
Mounting Location	Indoor or Outdoor Use				
Flash Rate	110 ±10fpm (Triple-flash Pattern)				
Certifications	RoHS				





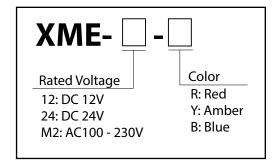
New Large Sized LED flashing beacon! Available in three LED Colors.

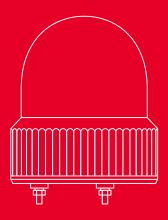
FEATURES

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

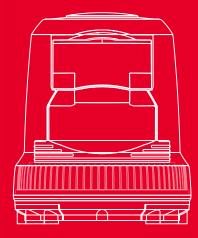
Model	XME-12	XME-24	XME-M2	
Rated Voltage	DC 12V	DC 24V	AC 100 - 230V	
Voltage Range	DC 9.5-15V	DC 20 - 28V	AC 90 - 250V	
Current Consumption	0.50A	0.23A	0.12A (at 100VAC)	
Operating Ambient Temperature	-30°C to +70°C		-20°C to +60°C	
Protection Rating		IP23		
Mounting Location	lr	ndoor or Outd	oor Use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

Specifications





Revolving Warning Lights





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

FEATURES

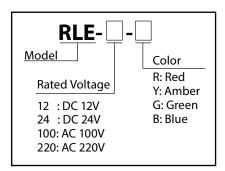
- · Indoors allows upright, inverted, and horizontal installation; outdoors allows upright installation only.
- Dome lens is made of superior impact and heat resistant polycarbonate resin.
- Compact motor with high durability and energy-efficient characteristics.
- LED integrated reflection system for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

Specifications

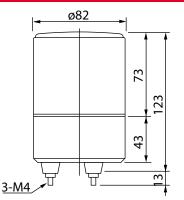
Model	Rated Power Voltage Consumption		Flash Rate (fpm)	Mass
RLE-12	DC 12V	2.5W		400 -
RLE-24	DC 24V	3.0W	120	400g
RLE-100	AC 100V	4.0W	120	600a
RLE-220	AC 220V	4.000		600g

O Available by Special Order

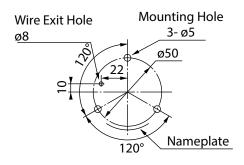
How to Order



Dimensions (Unit: mm)



Mounting Dimensions





Compact Revolving Warning Light perfectly designed for small devices.

FEATURES

• Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.

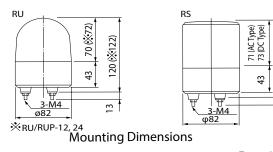
(AC Type) (DC Type)

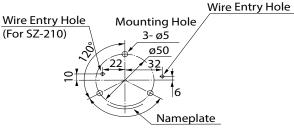
121

13

- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- Dome is made from superior impact and heat resistant polycarbonate resin.
- · Main body is made of impact and heat-resistant polycarbonate resin.
- Rotating parabolic reflector to enhance visibility from a distance.
- Vibration-resistant automobile bulb for extended bulb life.
- Available Colors are Red, Amber, Green, and Blue. AVAILABLE BY SPECIAL ORDER
- Body Color: Silver
- Mounting Pole and Bracket: Standard with RUP Series.

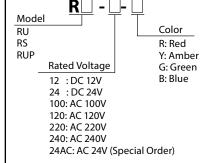
Dimensions (Unit: mm)





R –

How to Order



Specifications

Model	Rated	Current	Flash Rate	В	ulb	Mass	
Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	RU/RS	RUP
RU(P)/RS-12	DC 12V	0.5A		12V 6W	18	0.4kg	0.8kg
RU(P)/RS-24	DC 24V	0.3A		24V 6W	19	0.4Kg	0.6ку
RU(P)/RS-100	AC 100V	0.1A					
RU(P)/RS-120	AC 120V	0.1A	120	12V 6W	18	0.6kg	1.0kg
RU(P)/RS-220	AC 220V	0.05A		120 000	10	0.0Kg	T.UKG
RU(P)/RS-240	AC 240V	0.05A					
O RU(P)/RS-24AC	AC 24V	0.3A		24V 6W	19	0.4kg	0.8kg
Available by Special Order							

Available by Special Order

RKE/RKEB/RHE/RHEB



Super-bright LED Revolving Warning Light



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

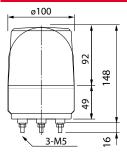
FEATURES

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

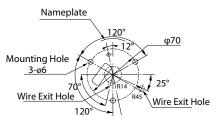
Specifications

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

Dimensions (Unit: mm)

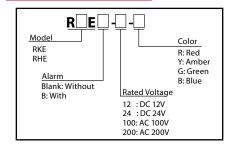


Mounting Dimensions



How to Order

Newly developed reflector for LED revolving warning light





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



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





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

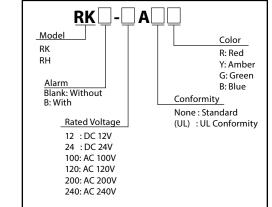
FEATURES

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

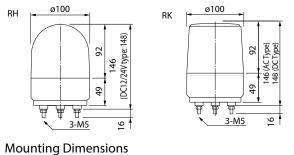
Optional Rubber

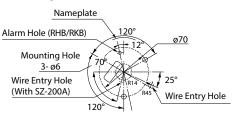
Gasket SZ-200A

Body Color: Silver



Dimensions (Unit: mm)





Specifications

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

How to Order

Ø100



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

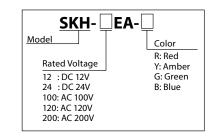
FEATURES

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

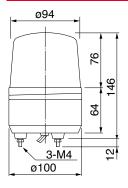
Specifications

Series	Model	Rated	Current	Flash Rate	Bulb		Mass
Selles	Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	Mass
USA Version	SKH-12EA	DC 12V	0.8A		12V 10W	9	100 ~
	SKH-24EA	DC 24V	0.5A		24V 10W	10	400g
	SKH-120EA	AC 120V	0.07A	170	12V 5W	12	600g
	SKH-12EA	DC 12V	0.8A		12V 10W	9	400 -
Standard	SKH-24EA	DC 24V	0.5A		24V 10W	10	400g
Version	SKH-100EA	AC 120V	0.065A		121/514	12	c00-
	SKH-200EA	AC 200V	0.03A	12V 5W		12	600g

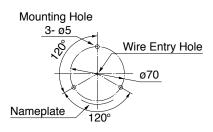
How to Order



Dimensions (Unit: mm)



Mounting Dimensions





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



Upside-down

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

FEATURES

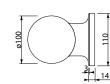
- Has the CE mark and conforms to the requirements (12V, 24V type only) for the EC directive.
- Upright, inverted, and sideways installation allowed for indoors as well as outdoors*.
- Dome is made from superior weather-resistant and light-translucent acrylic resin.
- Rotating parabolic reflector to enhance visibility from a distance.
- Install in various directions when using for indoor applications. 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.

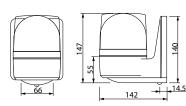
*WHB installation is upright only for outdoor use.

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

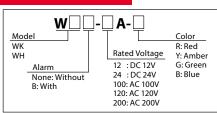
Dimensions (Unit: mm)

Sideways

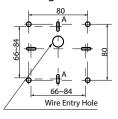




How to Order



Mounting Dimensions





Specifications

Model	Rated	Current	Flash Rate	Bu	lb	Mass
Model	Voltage	Consumption		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		240 1000	10	
WH-100A	AC 100V	0.07A				
WK-100A		0.07A			12	750g
WH-120A	AC 120V AC 200V	0.08A		12V 5W		
WK-120A		0.00A				
WH-200A		0.04A				
WK-200A			170			
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					
WKB-100A		0.074				
WHB-120A	AC 120V	0.07A		101/ 514/	10	750.0
WKB-120A	AC 120V			12V 5W	12	750g
WHB-200A	10 2001	0.044	1			
WKB-200A	AC 200V	0.04A				



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

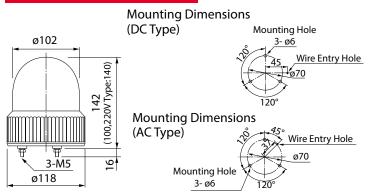
FEATURES

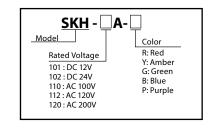
- Rotating parabolic reflector to enhance visibility from a distance.
- · Vibration-resistant automobile bulb for extended bulb life.
- Includes an internal alarm of 90dB (at 1m) that is synchronized with the light operation.
- Upright, inverted, and sideways installation allowed for indoors* as well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

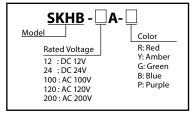
Specifications

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

Dimensions (Unit: mm)







SKHE/SKHEB

Super-bright LED Revolving Warning Light

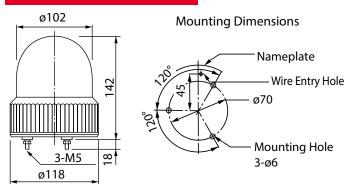


Compact LED revolving warning light featuring one super-bright LED chip and an enhanced high dispersion reflection system.

FEATURES

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

Dimensions (Unit: mm)



Specifications

Model	Rated Voltage	Current Consumption	Flash Rate (fpm)	Mass
SKHE/SKHEB-12	DC 12V	0.25A		400-
SKHE/SKHEB-24	DC 24V	0.16A	120	400g
SKHE/SKHEB-100	AC 100V	0.04A	120	6000
SKHE/SKHEB-200	AC 200V	0.02A		600g

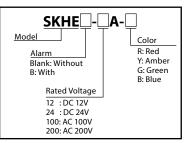
Newly developed reflector for LED revolving warning light



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



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





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

FEATURES

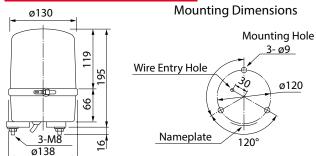
- Main body is made of a melamine baked finish with a corrosion-proof stainless steel (SUS 304) lens mounting fixture.
- Has the CE mark and conforms to the requirements (for 12V, 24V, 48V DC types only) for the EC directive.
- Indoors allows upright, inverted, and sideways installation; outdoors allows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

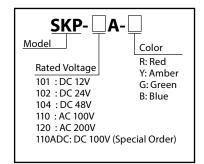
Specifications

Model	Rated			Bu	lb	Mass
Model	Voltage			Ratings	Repl. No.	IVIdSS
SKP-101A	DC 12V	2.6A		12V 35W	1	0.8kg
SKP-102A	DC 24V	1.2A	ĺ	24V 35W	2	0.8Kg
SKP-104A	DC 48V	0.8A	140	48V 35W	5	
SKP-110A	DC DC 100V	0.35A		120V 40W	36	0.9kg
SKP-110A	AC 100V	0.3A				1.01/2
SKP-120A	AC 200V	0.13A	120	220V 30W	37	1.0kg

O Available by Special Order

Dimensions (Unit: mm)







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

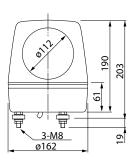
FEATURES

- 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.

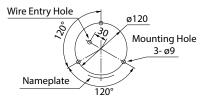
Specifications

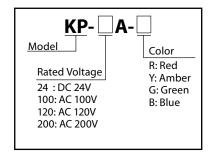
Model	Rated	Current	Flash Rate	Bulb		Mass	
Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	ividSS	
KP-24A	24V DC	1.2A		24V 35W	2	1.0kg	
KP-100A	100V AC	0.3A	140	120V 40W	6		
KP-120A	120V AC	0.4A		1200 4000	0	1.2kg	
KP-200A	200V AC	0.13A	120	220V 30W	37		

Dimensions (Unit: mm)



Mounting Dimensions







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

FEATURES

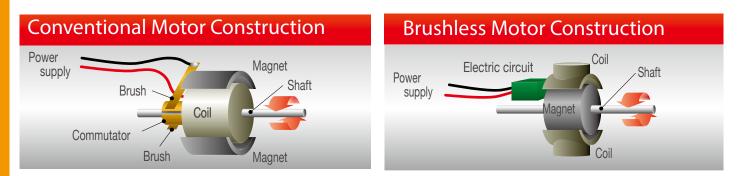
- Has the CE mark and conforms to the requirements (for 12V, 24V, 48V type) for the EC directive.
- Colors available are Red, Amber, Green, and Blue.
- RLR complies with the RoHS Directive.

LED + Brushless Motor + Bearing Mechanism



Long Life

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







VibrationHighResistance*Visibility



High Protection

IP66 TEST PROCEDURE

IPX6= Water is sprayed for at least 3 minutes at a flow rate of 100 L/min from a distance between 2.5m to 3.0m, and from all 360° directions using a 12.5mm diameter jet hose nozzle.
 IP6X= The target unit is tested under-pressure in a dust chamber for 8 hours.

How to Order

Model Code	Rated Voltage 04 : DC 48V M1 : DC 12-24V M2 : AC 90~250V		Color R : Red G : Green Y : Amber B : Blue	Mounting Dimensions Blank:φ140 P:φ120
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Typical Vibration Values



Passenger Car

4.5G (44.1m/s²)

Construction Machinery





Emergency Vehicle

11G (107.8m/s²)

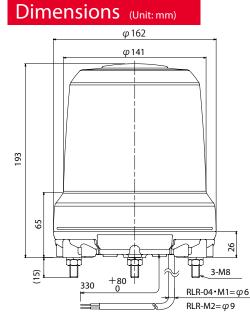
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Dump Trucks



Mounting Dimensions RLR Wire Entry Hole Mounting Hole 3 - φ9
Specifications

	Model	Rated Voltage	Operating Voltage Range	Vibration Resistance	Operating Temperature Range	Dome	Mass
	RLR-M1	DC 12-24V	DC 9.5V - 32V	110m/s ²	-30 C - +70 C	-R (Red)	1.01/0
ſ	RLR-04	DC 48V	DC 20V - 30V	(11G)	-30 C - +70 C	-Y (Amber) -G (Green)	1.0kg
[RLR-M2	AC 90-250V	AC 90V - 250V	45m/s ² (4.5G)	-10 C - +50 C	-B (Blue)	1.06kg

SKHB-1006D Revolving Warning Light Bulb Alarm Sound **IP23 Ø162** Portable

Portable Revolving Warning Light with dry cell batteries.

FEATURES

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

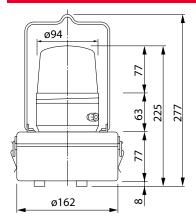
Specifications

Madal	Rated	Power	Flash Rate	Bu	ılb	Maaa
Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	Mass
SKHB-1006D	DC6V	214/	150	6V 3W		2.0kg
SKHB-1006MD	(SUM-1x5)	3W	150	60.300	8	2.1kg

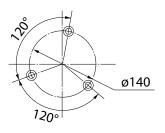
How	to	Orc	D r
	t		וכו

<u>SKHB</u> -10	06 _	D- 🖵	
Model Magnet None: W M: With			Color R: Red Y: Amber

Dimensions (Unit: mm)



Mounting Dimensions





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

FEATURES

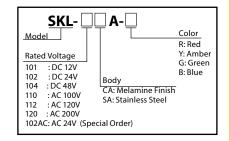
- Main body for the SKL-CA has a scratch-free melamine baked finish, and the SKL-SA is of corrosion-proof stainless steel.
- Has the CE mark and conforms to the requirements (for 12V, 24V, 48V DC type only) for the EC directive.
- Indoors allows upright, inverted, and sideways installation; outdoors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

Specifications

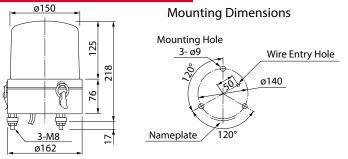
Model	Rated	Current	Flash Rate	Bu	Mass		
Model	Voltage Consumptio		(fpm)	Ratings	Repl. No.	IVIdSS	
SKL-101CA/101SA	12V DC	2.6A		12V 35W	1		
SKL-102CA/102SA	24V DC	1.2A		24V 35W	2	1.3kg	
SKL-102ACSA	24V AC	1.2A	140	240 3300	2		
SKL-104CA	48V DC	0.8A	140	48V 35W	5	1.4kg	
SKL-110CA/110SA	100V AC	0.3A		120V 40W	36		
SKL-112SA	120V AC	0.4A		1200 4000	50	1.5kg	
SKL-120CA/120SA	200V AC	0.13A	120	220V 30W	37		

O Available by Special Order

How to Order



Dimensions (Unit: mm)





Large Revolving Warning Light with a solid design.

FEATURES

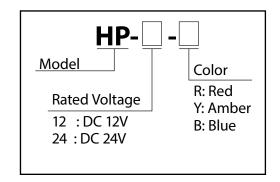
- Dome is made from superior weather-resistant and light-translucent acrylic resin.
- Main body is made of impact and heat resistant ABS resin.
- Available Voltages are DC 12V and DC 24V.
- Available Colors are Red, Amber, and Blue.
- Utilizes a Halogen Bulb (Sold Separately).

Specifications

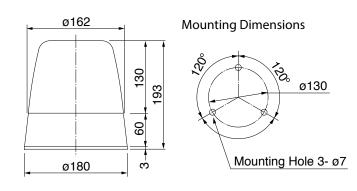
Model	Rated	Halogen Bulb	Flash Rate	Mass
Model	Voltage	Bulb sold seperately	(fpm)	Mass
© HP-12	12V/24 DC	0.5A	160	1.0kg
O HP-24	12V/24 DC	0.5A	100	1.0Kg

O Available by Special Order

How to Order



Dimensions (Unit: mm)





Large lightweight Revolving Warning Light with dual-face reflector.

FEATURES

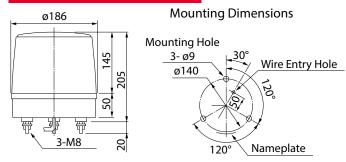
- · Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Main Body is made of a black resin for resistance against harsh weather and UV rays.
- Compact motor with high durability and energy-efficient characteristics.
- The red dome is made of AS resin;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

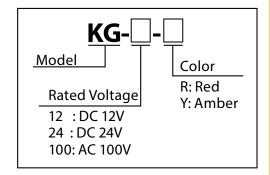
*Please contact your local PATLITE representative for other available voltages.

Specifications

Model Rated		Current	Flash Rate	Bu	Mass	
Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	111055
KG-12	DC 12V	2.7A		12V 35W	1	700 -
KG-24	DC 24V	1.2A	180	24V 35W	2	700g
KG-100	AC 100V	0.32A		120V 40W	36	900g

Dimensions (Unit: mm)







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

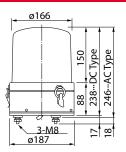
FEATURES

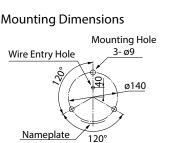
- Extended product lifespan by using vibration-resistance and reliable operation, even under a severely cold environment (-30°C).
- Main body is made of a melamine baked finish with a corrosion-proof stainless steel (SUS 304) lens mounting fixture.
- Indoors allows upright, inverted, and sideways installation; 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.

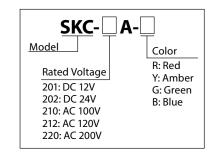
Specifications

Madal	Rated	Rated Current Flash Rate		Bu	Macc	
Model	Voltage	Consumption	(fpm)	Ratings	Repl. No.	Mass
SKC-201A	12V DC	2.6A		12V 35W	1	1.61/0
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 (Unit: mm)







HKFR Revolving Warning Light

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

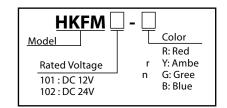
FEATURES

- 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.

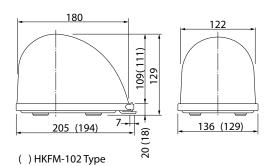
Specifications

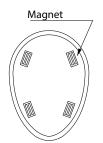
Model	Rated Voltage	Current Consumption	Flash Rate (fpm)	Bulb	Mass
HKFM-101	DC 12V	2.9A	230	12V 35W	800g
HKFM-102	DC 24V	1.9A	250	24V 55W	800g

How to Order



Dimensions (Unit: mm)





Cord length: 4m (with cigar lighter plug)



Corrosion-resistant Revolving Warning Light.

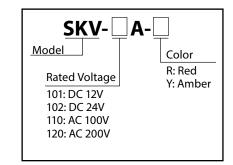
FEATURES

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

Specifications

Madal	Rated	Current	Current Flash Rate		Bulb		
Model	Voltage Consumption		(fpm)	Ratings	Repl. No.	Mass	
SKV-101A	12V DC	2.6A		12V 35W	1	2.6kg	
SKV-102A	24V DC	1.2A	140	24V 35W	2	2.0ку	
SKV-110A	100V AC	0.3A		120V 40W	36	2.01/0	
SKV-120A	200V AC	0.13A	120	220V 30W	37	2.8kg	

How to Order



Dimensions (Unit: mm)

3-M8

ø204

Mounting Dimensions

Nd



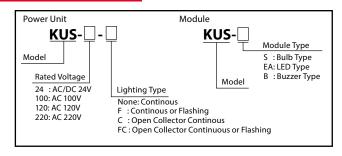
The KUS Series cube tower; uses advanced technology with a modular design to combine two different lights on one unit.

KUS-B

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



80dB (at 1m)

Specifications

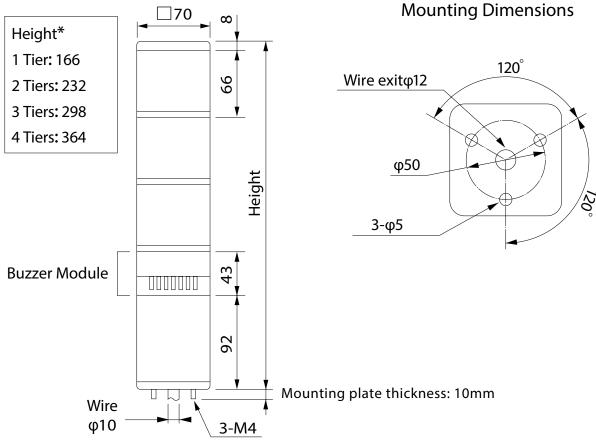
Power Unit	Model		Rated Voltage	Power Consumption
	KUS -24		AC/DC 24V	
Continuous	KUS -100		AC 100V	
Lighting	KUS -120		AC 120V	
	KUS -220		AC 220V	
	KUS -24	F	AC/DC 24V	
Continuous	KUS -100	F	AC 100V	
Lighting or Flashing	KUS -120	F	AC 120V	
	KUS -220	F	AC 220V	21W
	KUS -24	С	AC/DC 24V	2100
Open-Collector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

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

0.5W

DC 24V

Dimensions (Unit: mm)

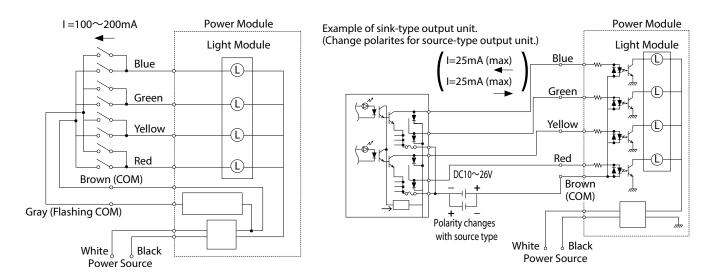


* Buzzer module height not included

Wiring

Contact Input Type (KUS,KUS-F)

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





KJS / KJSB

SJS/KJSE



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

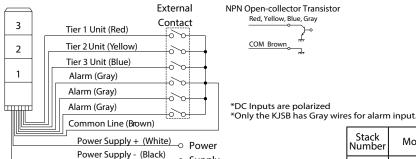
Red, Yellow, Blue, Grav

COM E

FEATURES

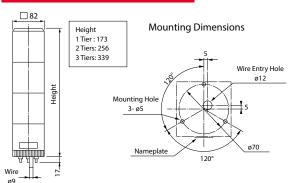
- Built-in Alarm with intermittent buzzer sound and volume of up to 85dB (at 1m).
- Lens is made of superior weather-resistant and light-translucent AS resin.
- Rotating parabolic reflector to enhance visibility from a distance.
- · Main body is made of impact and heat resistant ABS resin.
- · Available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

Wiring



- Supply

Dimensions (Unit: mm)



How to Order

KJSD-302-RYG Color Type R: Red Blank: No Alarm Y: Amber B: With Alarm G: Green Tiers B: Blue 1~3 (Top to bottom) Rated Voltage 01: DC 12V 02: DC 24V 10: AC 100V 12: AC 120V 20: AC 220V

Specifications

Stack	Model		Rated	Power	Flash Rate	Bu	ulb				
Number			Voltage	Consumption	(fpm)	Ratings	Repl. No.				
		-101	DC 12V	6W		12V 5W	12				
		-102	DC 24V	12W		24V 10W	10				
1 Tier	KJS KJSB	-110	AC 100V								
	-112	AC 120V	8W		12V 5W	12					
	-120		AC 200V								
		-201	DC 12V	11W		12V 5W	12				
		-202	DC 24V	24W		24V 5W	10				
2 Tiers	KJS KJSB	-210	AC 100V						160		
		-212	AC 120V	16W		12V 5W	12				
		-220	AC 200V								
		-301	DC 12V	16W		12V 10W	9				
		-302	DC 24V	35W		24V 10W	10				
3 Tiers	KJS KJSB	-310	AC 100V								
		-312	AC 120V	23W		12V 5W	12				
		-320	AC 200V								

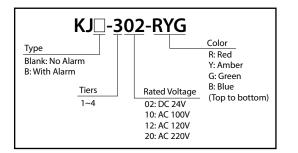


Lightweight Cube Tower featuring a built-in buzzer suitable for various indoor applications.

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. •

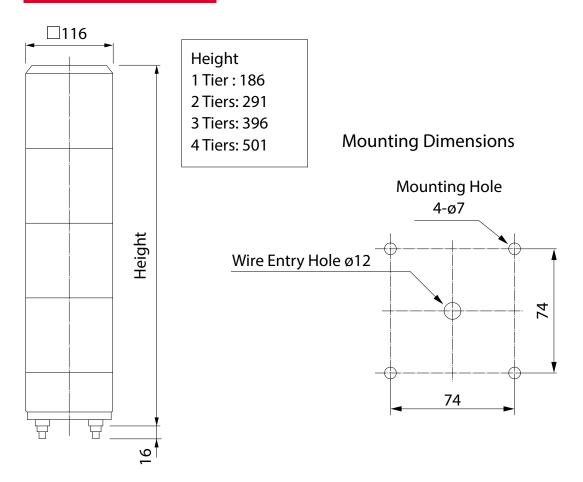
How to Order



Specifications

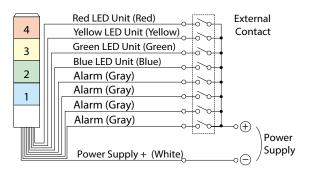
Stack	Madal			Rated	Power	Flash Rate	Bu	lb			
Number	Model		91	Voltage	Consumption	(fpm)	Ratings	Repl. No.			
			-102	DC 24V	13.5W		24V 10W	10			
1 Tier	КЛ	КЈВ	-110	AC 100V	6W]					
Ther			-112	AC 120V	7W		12V 5W	12			
			-120	AC 200V	5.5W]					
	2 Tiers KJ KJB		-202	DC 24V	25.54W		24V 5W	10			
2 Tiors						-210	AC 100V	11W			
Z Hers			-212	AC 120V	13W	130	12V 5W	12			
			-220	AC 200V	9.9W						
			-302	DC 24V	37.5W		24V 10W	10			
2 7:		КЈВ	-310	AC 100V	16W						
3 Tiers	КJ	K JB	-312	AC 120V	18W]	12V 5W	12			
			-320	AC 200V	14.3W						
			-402	DC 24V	49.5W		24V 10W	10			
4 Tiers			-410	AC 100V	21W]					
4 Hers		KJ KJB	-412	AC 120V	26W		12V 5W	12			
			-420	AC 200V	18.7W						

Dimensions (Unit: mm)

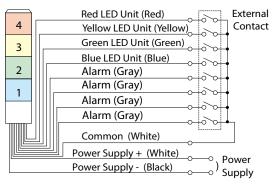


Wiring

KJ/KJB (24V DC)



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

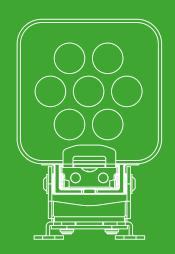


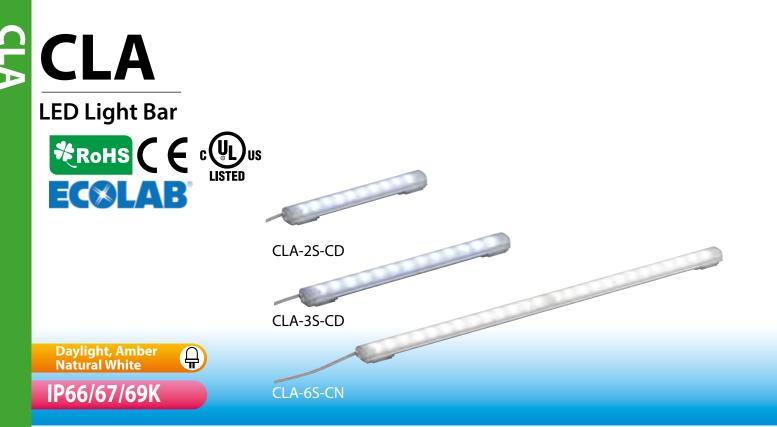
*KJ-110/112/120 are voltage-contact type, therefore have no alarm signal wires. *Only the KJB has Gray wires for alarm input.

Current Consumption and Contact Capacity per Module						
Rated Voltage	Inrush Current					
24V DC	0.42A	4.6A	54 or more	60mA	500mA	
100VAC/120VAC/220VAC	0.42A		5A or more	60mA	SUUMA	

KJ/KJB

LED Lights





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

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

Luminous Color

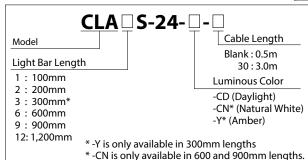
With a high-intensity lumination, its suitable for applications such as lighting processing machinery workspace, for lighting up a video inspection system to light up more details, etc.



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



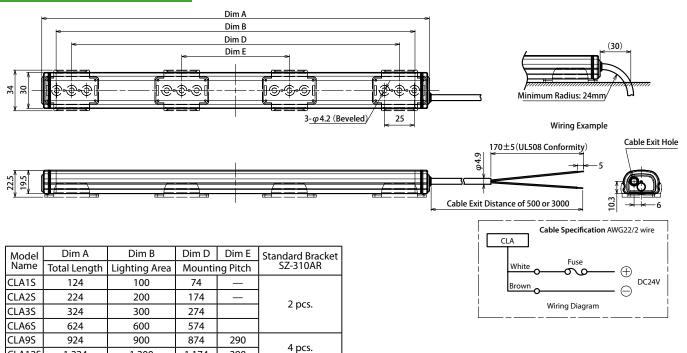
How to Order



CLA-CD (Daylight: 6800K)

CLA-Y (Amber)

Dimensions (Unit: mm)



Options

CLA12S



1,224

1,200

Rear Attachment (Screw Mount) Model SZ-310AR

Specifications



390

1,174

Rear Attachment (Magnetic Mount) Model SZ-310ARM



Side Attachment (Screw Mount) Model SZ-310AS



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

Model	Luminous Color	Rated Voltage	Vibration Resistance	Operating Temperature Range	Rated Current Consumption	Center Radiation (lx/50cm)	Main Body Material	Protection Rating	Mass
CLA1S -24 -CD	Daylight				104mA	140			80g
CLA2S -24 -CD	Daylight]			208mA	270			130g
CLA3S -24 -CD	Daylight]			240mA	400	Polycarbonate	IP66/67/69K	
CLA3S -24 -CN	Natural White								180g
CLA3S -24 -Y	Amber	DC 24V (Polarized)	19.6 m/s ²	-40°C - +60°C (RH 90% or less)		220			
CLA6S -24 -CD	Daylight	((480mA 650		í F	340g	
CLA6S -24 -CN	Natural White				400MA	050			540g
CLA9S -24 -CD	Daylight]			720mA	810			500g
CLA12S -24 -CD	Daylight				960mA	890			660g



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

FEATURE

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

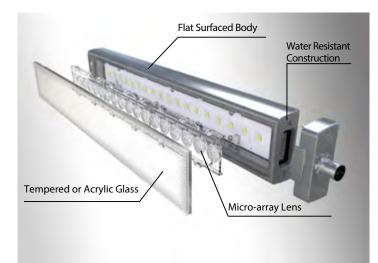
Specifications

Speci	fications/Material		Water and Oil Resistance/Aluminum Alloy							nical Resistance/ inless Steel
Lens Ma	terial		Tempered Glass						Specially-treated Lens◊	
Model		2S-AG	3S-AG	6S-AG	3C-AG	3CL-AG	6C-AG	6CL-AG	3C-SG	3C-SA
Lens Size	2	200mm	300mm	600mm	300mm	1	600mn	ì	300	mm
LED	Daylight: 6,500K: CD			•	•		•		•	_
Color	Natural White: 5,000K: CN	Δ		Δ	•		•		_	
Center II	lumination (@1m)	820lx	1,200lx	2,100lx	1,2001>		2,100b	(1,2	00lx
Connect	ion Type	Side-ex	iting Cable,	L=0.5m	M12 Quick Disconnect	M12 Daisy Link	M12 Quick Disconnect	M12 Daisy Link	M12 Quick	Disconnect
Power C	onsumption	8.4W	12.5W	25W	12.5W	1	25W		12.5W	
Rated Vo	oltage		DC24V (Poloarized)							
Operating	g Temperature Range		-40°C - +60°C (RH 90% or less)							
Protectio	on Rating		IP 66G/67G (IEC 60529)/IP69K (DIN 40050 Part 9)							
A · Inqu	ire before Ordering	A. Spaci	ally_troat	od long h	as three lavers on	abaddad: DA	MMA Shattor-pro	of Film Tomr	orod Glass	

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

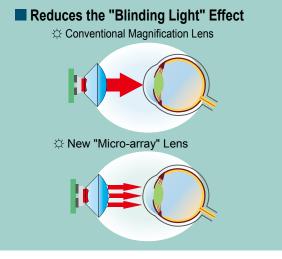
How to Order

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



Angled Body and Flat Surface

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



Reduces the "Blinding Light" Effect

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



up and down from the center. (With a scale at

10° step marks and screws to lock it into

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)



.001

M12 Quick Disconnect



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

place.)

SZ-320KS

Manufacturer: Phoenix Contact Corp.

Daisy Link at a maximum of 5 Units

SZ-330KP



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

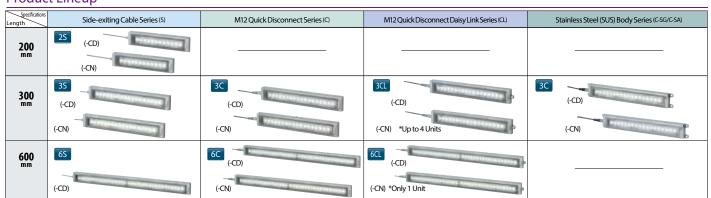
board thickness and lead wire specification of

6mm or less; M12 connector specification of

3mm or less) (Models 3 S-AG/3 C-AG Only)

Manufacturer: Phoenix Contact Corp.





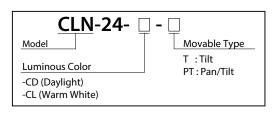


Water and Oil resistant high-power LED Work Light with an illuminance of 820 lx.

Industry's thinnest design at 22.2mm.

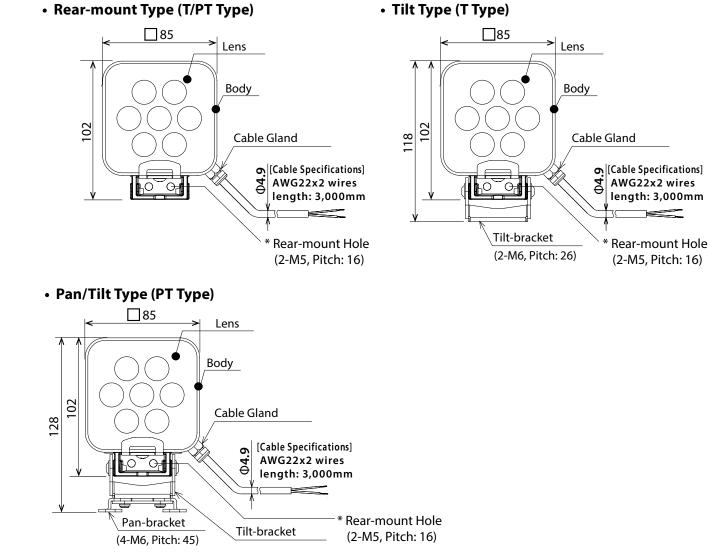
- *The industry's first based on corporate investigation
- Made of aluminum alloy and tempered glass which is resistant to water, oil and coolants.
- Special design disperses heat radiation with illumination to surpass a 40W light bulb.
- The product lineup includes two colors (Daylight, Warm White)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

How to Order



Specifications

Model	CLN-2	4- 🔲 -T	CLN-24- 🗖 -PT			
Color Code (Color)	CD (Daylight)	CL (Warm White)	CD (Daylight)	CL (Warm White)		
Color Temperature (typ.)		6500K	2700K	6500K	2700K	
Illumination (typ.) (Centered at DC 24V)	Illumination (typ.) (Centered at DC 24V) 1m		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			30g	



Features



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



Floor Mount Example



Wall Mount Example







Pan/Tilt Type (PT Type)





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

Floor Mount Example



Wall Mount Example Ceiling Mount Example



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

Ceiling Mount Example





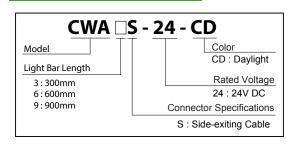
Affordable replacement for flourescent lighting.

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

FEATURES

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

How to Order



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

Standard Accessory



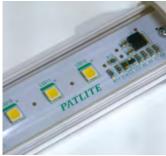
Standard

Material: Stainless

2 incl

CWA

Highly reliable LED chips are used

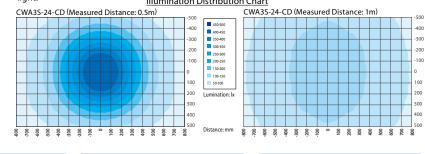


High-definition LED chip

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

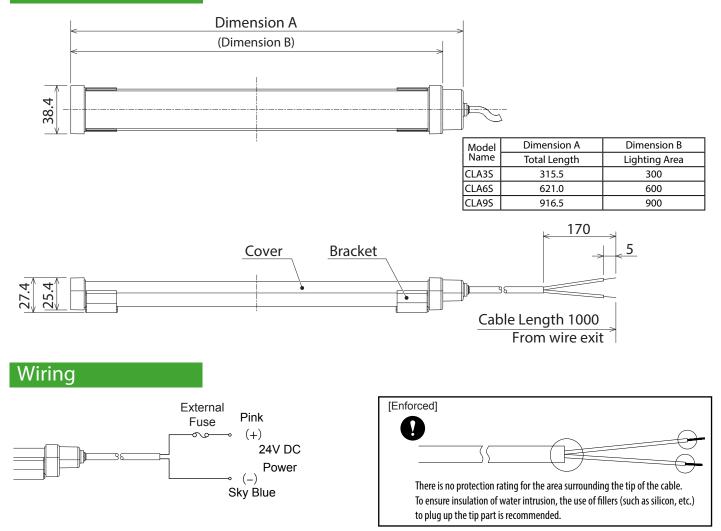
A uniform light that subdues glare

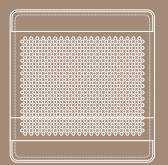
In comparison to an LED luminous source, we take advantage of the straight beam optical characteristic of the LED without dropping brightness or overdoing it, but reproducing a natural light. <u>Illumination Distribution Chart</u>



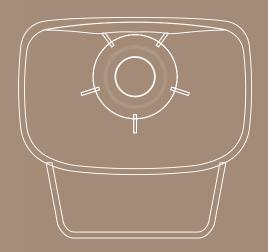


Dimensions (Unit: mm)





Alarm Products



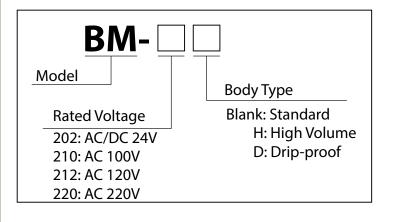


Compact Signal Horn designed to integrate with control panel, switchboard and other production equipment applications.

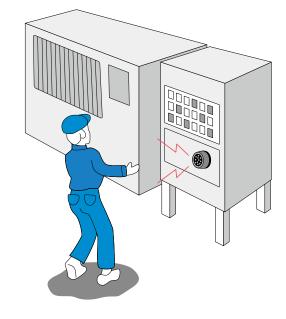
FEATURES

- 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)

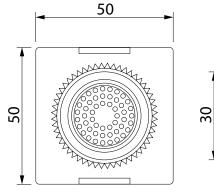
How to Order

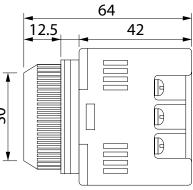


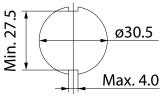
Application Example



Dimensions (Unit: mm)

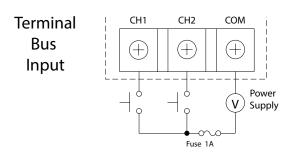






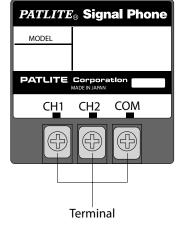
Maximum Panel Thickness: 7

Wiring



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

Rear View



External Contact Capacity : No less than 100mA
Auxiliary Input : Voltage Contact
Input Channels : 2

Specifications

Туре	Model	Rated Voltage	Voltage Range	Power Consumption	Max. Volume (at 1m)	Operating Temperature Range	Protection Rating	Mass		
	BM -202	AC/DC 24V	AC/DC 22V-26V	0.4W	80dB					
Standard	BM -210	AC 100V	AC 90V-110V	2.5W	05 10	V of ID				
	BM -220	AC 220V	AC 200V-240V	3.5W	85dB		IP30			
	BM -202H	AC/DC 24V	AC/DC 22V-26V	0.4W	85dB					
Like h Malumaa	BM -210H	AC 100V	AC 90V-110V	2.5W		90dB		-10ºC - +60ºC		100 -
High Volume	BM -212H	AC 120V	AC 108V-132V	2.5 W 90dB	90dB		(RH 85% or less)		100g	
	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	90dB	IP34	IP34			
	BM -220D	AC 220V	AC 200V-240V	3.5W	80dB					



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

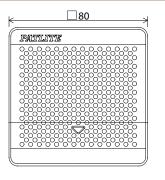
FEATURES

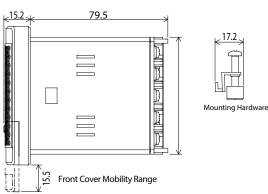
- Maximum output level of 90dB (at 1m) is suitable for use in a noisy factory.
- 32 pre-recorded sounds in one unit to be used for various applications.
- Sound output level and sound group can be selected by rotary switches stored behind the front panel for easier operation, even after • installation.

17.2

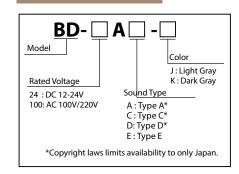
- Select a sound group to playback 4 pre-recorded sounds.
- A new sound group can be created from the 32 sounds by using an optional memory card (sold separately).
- Compliant with the RoHS directive •
- Has the CE mark and conforms to the requirements (for 12V/24V type) for the EC directive.
- Is a UL recognized component (File No. E24210).
- AVAILABLE BY SPECIAL ORDER
- Binary input controlled 15 sound playback model.
- PNP open collector transistor type. •

Dimensions (Unit: mm)



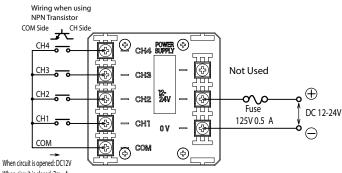


How to Order





Wiring

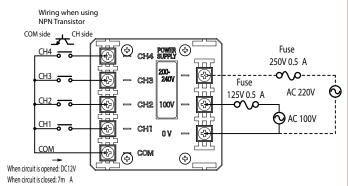


When circuit is closed: 7m A

Melody _ist

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

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



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

Specifications

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

Use of Copyrighted Material

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



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

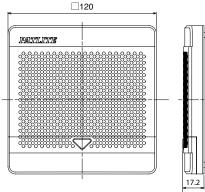
FEATURES

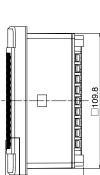
- 32 pre-recorded sounds in one unit to be used for various applications.
- Maximum output level of 95dB (at 1m) is suitable for use in a noisy factory.
- Rotary switch to easily change sound groups and adjust volume output from the front panel, even after installation.
- Use bit input to select a sound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

AVAILABLE BY SPECIAL ORDER

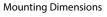
• PNP open collector transistor type.

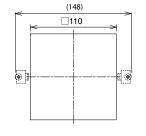
Dimensions (Unit: mm)



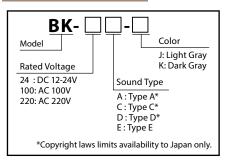


62.8



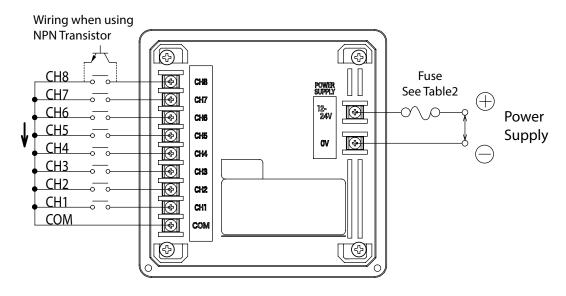


How to Order





Wiring



Melody List

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

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

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

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

Specifications

Model	BK-24 🗖	BK-100 🗖	BK-220 🗖	
Rated Voltage	DC 12V-24V	AC 100V (50/60Hz)	AC 220V (50/60Hz)	
Operating Voltage Range	DC 10.8V- 26.4V	AC 100V ±10%	AC 220V ±10%	
Operating Temperature Range		-20°C - +50°C		
Relative Humidity	8	35% RH (No Condensation)	
Power Consumption	Maximum 12W	Maximum 10W	Maximum 11W	
Volume	Adjustable up to a maximum of 95dB (at 1m) when flushmounted. (Volume may be less, depending on surrounding environment and playback sound)			
Input Method	Bit Input, Binary Input			
Input Signal Duration	Continuous			
Boot-up Time	Input Voltage: 1 sec. or less Channel Signal Input: 170msec or less			
Channels	Bit: 4 Channels; Binary: 32 Channels			
Recorded Sound	32 Melodies and Alarm Sounds			
Sound Group	16 Patterns (A to P)			
Protection Rating	IP54 (When flush-mounted, Upright direction Only)			
Vibration Resistance	45m/s ² 19.6m/s ²		m/s ²	
Mass (Tolerance ±10%)	350g 530g		0g	

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.



Exceptional Sound Quality Field Programmable Melody/Alarm Horn

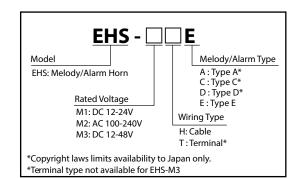
FEATURES

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

EHS vs EHV (Functionality Comparisons)

Model	Onboard Sounds	MP3 Playback	Playback Modes	No. of Playback Channels
EHS	32 Sounds	No	1 Mode	8 ch Bit Input/ 32 ch Binary Input
EHV	63 Sounds	Yes*	4 Modes	8 ch Bit Input/ 63 ch Binary Input
* Internal Memory size of 2 Mbytes, maximum playback of 220 seconds at a 64kbit/sec rate				

How to Order



Specifications

EHS

Model	Rated Voltage	Voltage Range	Power Consumption	Sound Pressure	Operating Temperature Range	No. of Playback Messages	Protection Rating	Wiring Type	Mass	
EHS- M1H	DC 12 - 24V	DC 10.8V to 35V	5.0W (DC24V NPN, Non-voltage Contact)					Cable	1.25kg	
EHS- M1T	DC 12 - 24V	DC 10.8V to 35V	5.9W (DC24V PNP, Voltage Contact)			0-			Terminal	1.25Kg
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 100 - 240V AC 90V to 264V 6.9W (AC240V NPN, Non-voltage Contact)	6 OW (AC240) (NDN Non-voltage Contact)					Cable	1.25kg	
EHS- M2T	AC 100 - 240V						Terminal	1.23Kg		

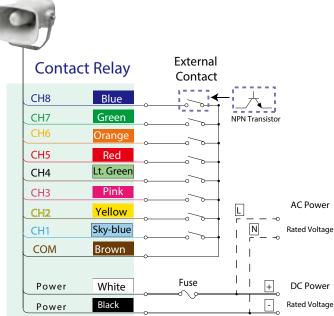
Notes:

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

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

- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

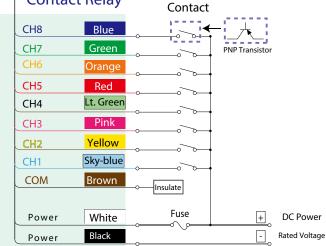
Non-voltage (NPN) Wiring



CH7

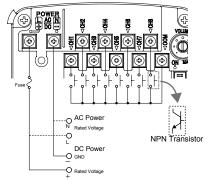
PNP Wiring

Contact Relay

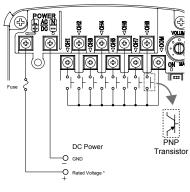


External

Terminal (NPN)



Terminal (PNP)



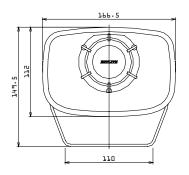
Transistor Capacity (NPN & PNP)		
Current Capacity	$I_c \ge 15mA$	
Current Leakage	$I_{L} \leq 0.1 \text{mA}$	
Withstand Voltage	$V_{c} \ge 35V$	
ON Voltage(V _{sat}) Less than 1		

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

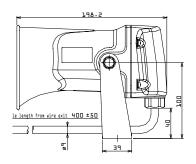
Maximum Inrush Current		
EHM1	12.5A	
EHM2	23.0A	
ЕНмз	45.0A	

Dimensions (Unit: mm)

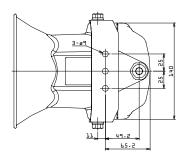
Front View

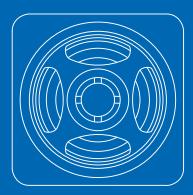


Side View

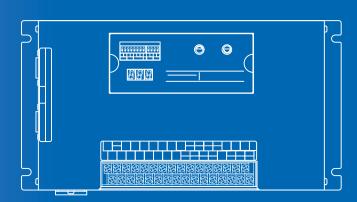


Underside View





Voice & Sound





Get the New Playlist Editor 2

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

STEP 2

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

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

STEP 3

Create the MP3 messages

Convert any message into MP3 data.

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

STEP 4

Save the MP3 messages on the SD Card

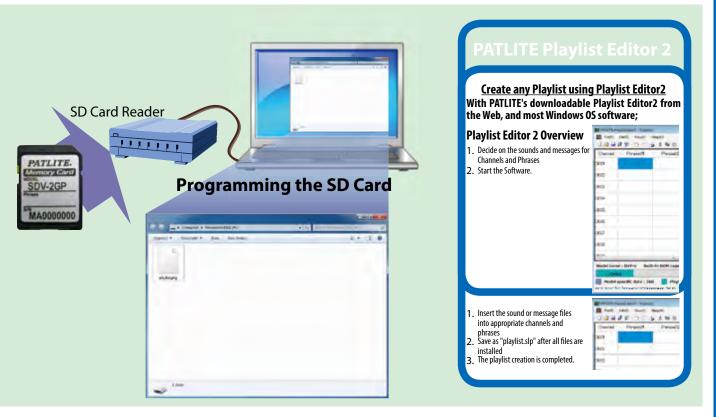
Use the Playlist Editor 2 to create a playlist and save it on an SD Card. (Refer to the product manual for detailed information)

STEP 5

Load the MP3 Data into the Product

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





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.

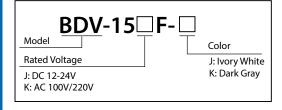


Excellent sound quality with MP3 playback! This panelmounted MP3 voice annunciator uses SD cards*, allowing messages to be changed easily. (*Recommended: SDV-2GP)

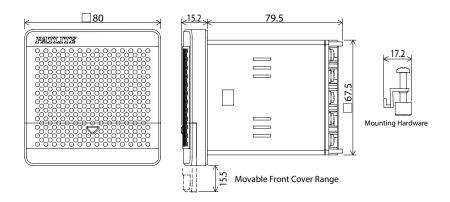
FEATURES

- 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)

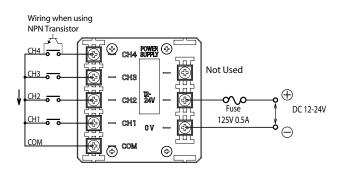
How to Order



Dimensions (Unit: mm)



Wiring Diagram

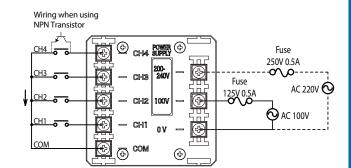


Playback Modes

Mode Selector Switch

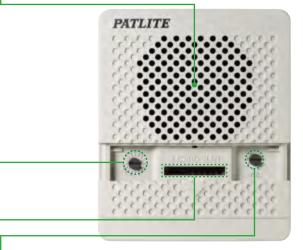
Several playback modes for a combination of applications.

56	everal playback	modes for a combination of application
A	Bit Input Mode	Plays back up to 4 messages using Channels 7 1 to 4.
В	Binary Input Mode	Plays back up to 15 messages using Channels 1 to 4.
с	Bit Input/ Volume Reduction Mode	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	PATLITE.
(OS: Windows® 2000/XP/Vista/Window > The new PATLITE Plavlist Edito		Momory Gard

- 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	0740*	MPEG- Audio Layer (MP3)	-10 - +50°C		Bit: 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 (Panel Mount)	340g

Notes:

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

- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

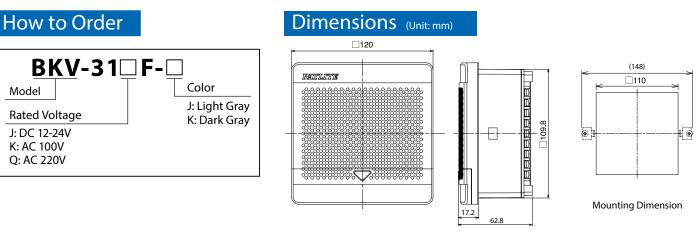
MA0000000



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)



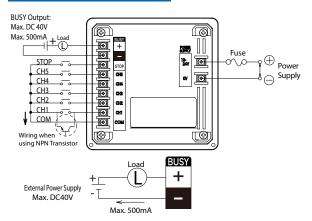
Playback Modes

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.
l - P	Test Playback Mode	Plays back Message No. 1

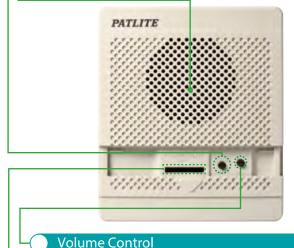
Wiring Diagram



Specifications

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.)

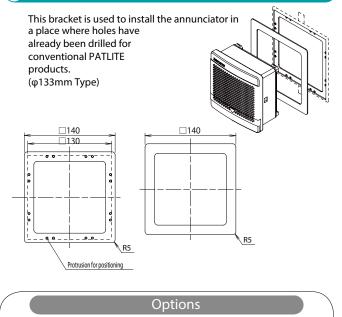


The volume is easily accessable from the front for adjustment.

Memory Card Slot

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

Optional Bracket (BK-001)



PATLITE Playlist Editor 2 (Free Download)

SD Card (2 GB) SDV-2GP

PATLITE. Memory Card

SDV-2GP

MA0000000

(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.
 - The SD Card does not contain any data.

•										
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 50%		D:+ 5	1054	350g
BKV-31KF	AC 100V	AC 100V ±10%	10W	95dB (at 1m)	UD Standard Bit Bate 64kb/s	-10 - +50°C (BH less than 85%)	63 sec.	Bit: 5 Binary: 31	IP54 (Panel Mount)	530g
BKV-15KF	AC 220V	AC 220V ±10%	1000		Fs=44.1kHz					550g
Notes: - Actual sound level will depend on sound type and surrounding operating conditions.										
	- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing									



The unbelievably thin design for tighter installations.

FEATURES

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





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

Easy installation from the front.

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





Ontion

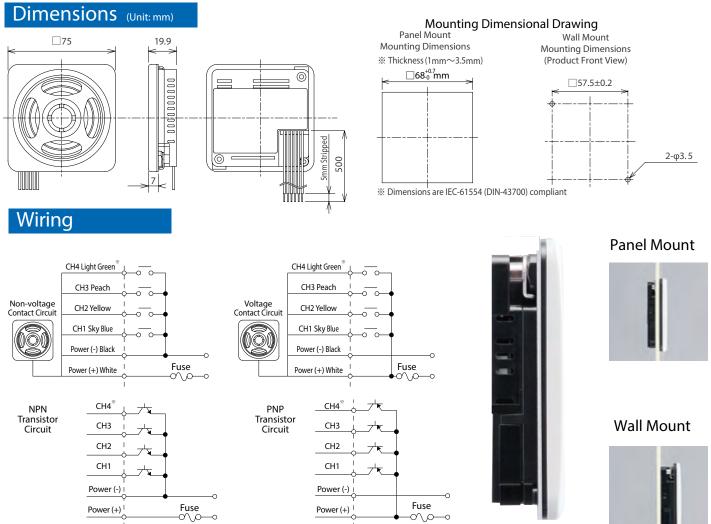
Options

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.





Actual Size

Specifications and How to Order

Specifications													
Model	Transistor Type	Rated Voltage	Operating Voltage Range	Power Consumption	Sound Level	Operating Temperature Range	Max.Playback Time	Playback Channels	Protection Rating	Mass	Front Cover Color	Recordeo Data	
BSV-24NM-W/D											Off white (-W) Dark Gray (-D)	Voice	
BSV-24NM-S	NPN Transistor										Silver (-S)	VOICE	
BSV-24N-W/D	Transistor				Max. 87dB			4 (Bit Input) 15 (Binary Input)		100g ±10%	Off white (-W) Dark Gray (-D)	Alarm Voice	
BSV-24N-S		DC	DC10.8V to	3.5W	(at 1m)	-10°C to +50°C (RH 85% or less)	62000	63sec. Sound Reduction			Silver (-S)		
BSV-24PM-W/D		12-24V	26.4V	0.000	1kHz Sine Wave		00360.				Off white (-W) Dark Gray (-D)		
BSV-24PM-S	PNP										Silver (-S)		
BSV-24P-W/D	Transistor											Off white (-W) Dark Gray (-D)	A.I.a.ma
BSV-24P-S											Silver (-S)	Alarm	
BSV-24													

Notes:

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

□ The method for data rewriting when not using the exclusive application software:

STEP-1 Make a data file with the PC. STEP-2 **STEP-3** %Allocate channel message data (*.mp3) in advance. Copy the data Insert the SD to the SD Card Card into the BSV A.MP3 Data 001.mp3 signed Mes ٩ 001.mp3 %1CH Assigned Message Example="Machine in Operation">Machine in Operation ation etting File MCOL+A10 MODE-A 10. txt Sound Reduction Diff regist Diff regist (dB)(Ex:10=-10dB) Operation Mode MODE-A10.txt "Machine in Operation." (1) Allocate messages for every channel...(2) Establish the operation mode...(3) Control the sound reduction.



Exceptional Sound Quality Field-programmable MP3 Alarm

FEATURES

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

EHS vs EHV (Functionality Comparisons)

Model	Onboard Sounds	MP3 Playback	Playback Modes	No. of Playback Channels		
EHS	32 Sounds	No	1 Mode	8 ch Bit Input/ 32 ch Binary Input		
EHV	63 Sounds	Yes*	4 Modes	8 ch Bit Input/ 63 ch Binary Input		
* Internal Memory size of 2 Mbytes, maximum playback of 220 seconds at a 64kbit/sec rate						

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

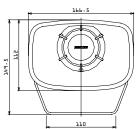
4 Playback Modes

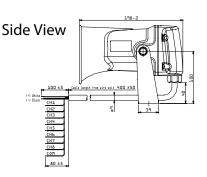
Normal Playback Designated audio message is played back by distinctive signal input. Audio message is played back once in case of one shot input, and audio message is repeated when the signal is input continuously.

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

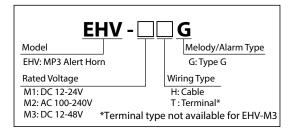
Dimensions (Unit: mm)

Front View





How to Order

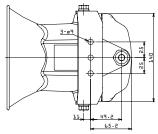




When a signal is input during a message playback, the current message playing back will be stopped, and the message of the signal input will be played instead.

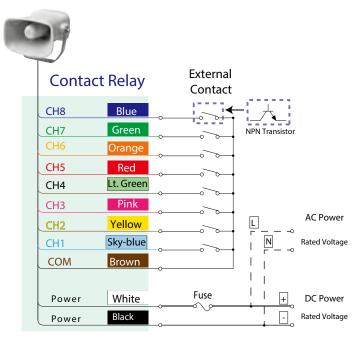
Momentary Playback Audio message is played back only while the signal input is maintained. Playback will be stopped when the signal input is stopped.

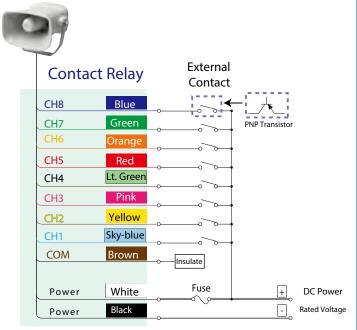
Underside View



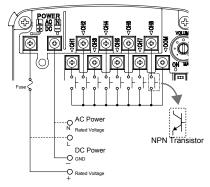
Wiring

Non-voltage (NPN) Wiring

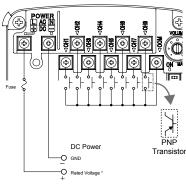




Terminal (NPN)



Terminal (PNP)



PNP Wiring

(NPN & PNP)
I _c ≥ 15mA
$I_{L} \leq 0.1 \text{mA}$
$V_{c} \ge 35V$
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

EHV

Model	Rated Voltage	Voltage Range	Power Consumption	Sound Pressure	Operating Temperature Range	No. of Playback Messages	Protection Rating	Wiring Type	Mass
EHV- M1H	DC 12 - 24V	DC 10.8V to 26.4V	4.0W (DC24V NPN, Non-voltage Contact)					Cable	1.25kg
EHV- M1T	DC 12 - 24V	DC 10.8V to 26.4V	5.0W (DC24V PNP, Voltage Contact)	Alarm: Max. 110dB (at 1m)				Terminal	1.25Kg
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			MP3: Max. 105dB (at 1m)		billary input ob		Cable	1.251.5
EHV- M2T			5.3W (AC240V NPN, Non-voltage Contact)	n-voltage contact)				Terminal	1.25kg

Notes:

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

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

- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

Get the Playlist Editor 2 (free from PATLITE)

• Contact us by E-mail located on the back of this catalog.

• Convert any message into MP3 data and save it onto an SD Card (with the use of the Playlist Editor 2).

Insert the SD Card into a PATLITE MP3 product for easy programming.

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

FV-127JP MP3 File Playback Circuit Board





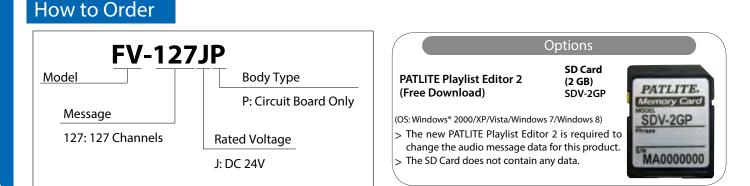
Audio messages can be registered up to 127 channels, ideal for various equipment or facility purpose where the audio message assistance is required.

FEATURES

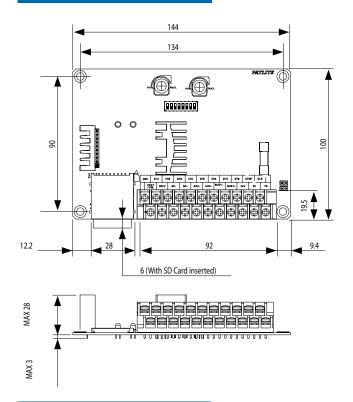
- High quality sound and long playback time.
- MP3 compressed audio file format enables long playback time and high quality sound.
- Approximately eight minutes worth of audio messages can be stored in the onboard memory.
- Capable of 240 minutes of message playback when using an SD card as external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



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

Latest Input
Priority PlaybackWhen 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.

stopped when the signal input is stopped.

Specifications

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

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

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

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

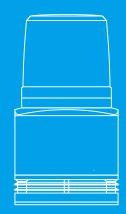
- Actual sound level will depend on sound type and surrounding operating conditions.

- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

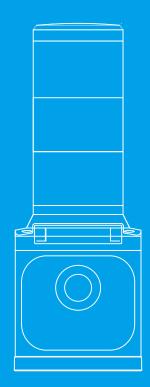
FV-127JP

Playback Modes

Playback



Hybrid Products





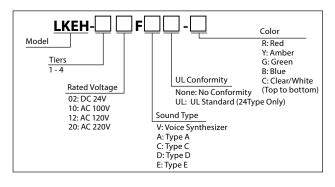
Get the attention you need with the PATLITE fieldprogrammable LKEH Series Hybrid Signal Tower with audible alarm.

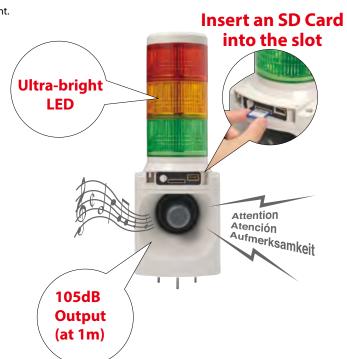
FEATURES

- 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

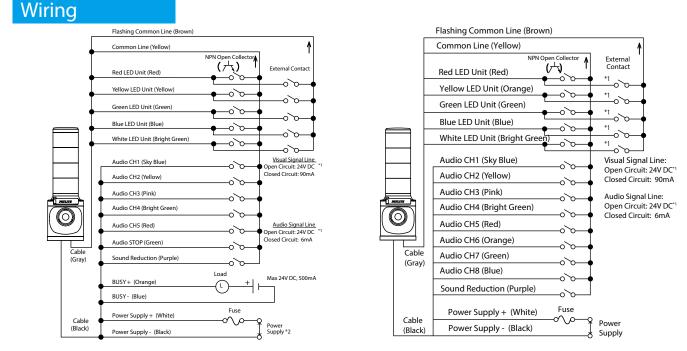




Use of Copyrighted Material

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Refer to Page 203 for "Melody Charts".



Options

Wall-mount Bracket SZ-023 Bracket Material:Steel

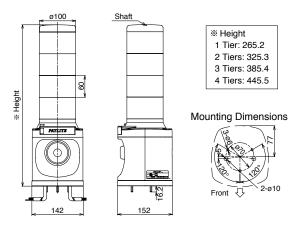


Opti	Options								
PATLITE Playlist Editor 2 (Free Download)	SD Card (2 GB) SDV-2GP	PATLITE. Memory Card							
(OS: Windows® 2000/XP/Vista/Window	rs 7/Windows 8)	SDV-2GP							
> The new PATLITE Playlis required to change the au data for this product.	MA0000000								
> The SD Card does not conta	ain any data.								

Specifications

opeen	reactor	13			
Model	Rated Voltage	Operating Voltage Range	Number of Tiers	Power Consumption	Mass
LKEH- 102F			1	10.6W	1.4kg
LKEH- 202F	DC 24V	DC 24V ±10%	2	12.4W	1.6kg
LKEH- 302F	DC 24V	DC 24V ±10%	3	14.2W	1.8kg
LKEH- 402F			4	16.0W	2.0kg
LKEH- 110F	AC 100V		1	17.0W	2.1kg
LKEH- 210F		AC 100V ±10%	2	20.0W	2.3kg
LKEH- 310F			3	23.0W	2.5kg
LKEH- 410F			4	26.0W	2.7kg
LKEH- 112F			1	17.0W	2.1kg
LKEH- 212F	AC 120V	AC 120V ±10%	2	20.0W	2.3kg
LKEH- 312F	AC 120V	AC 1200 ±10%	3	23.0W	2.5kg
LKEH- 412F			4	26.0W	2.7kg
LKEH- 120F			1	17.0W	2.1kg
LKEH- 220F	10 2201	AC 220V ±10%	2	20.0W	2.3kg
LKEH- 320F	AC 220V	$AC 220V \pm 10\%$	3	23.0W	2.5kg
LKEH- 420F			4	26.0W	2.7kg
Noto:					

Dimensions (Unit: mm)



Notes:

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

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

- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

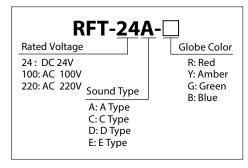


An LED Rotating Light with built-in alarm sounds controllable by binary or bit input for a maximum of 32 sounds!

FEATURES

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

How to Order



Sound Chart

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

Specifications

Series	Model	Rated Voltage	Operating Voltage Range	Maximum Power Consumption	Sound Level	Operating Temperature Range	Flashes per Minute	Protection Rating	Vibration Resistance	Mass
	RFT-24	DC 24V	DC 24V ±10%	12 W		10%				1.0kg
RFT	RFT-100	AC 100V	AC 100V ±10%	13 W	Max. 90dB (at 1m)	-10°C - +50°C (85%RH or less)	115 ±15	IP54 (When Flush-mounted)	19.6m/s ²	1.21/1
	RFT-220	AC 220V	AC 220V ±10%	13 W		(85%)		(when hush-mounted)		1.2kg

Notes:

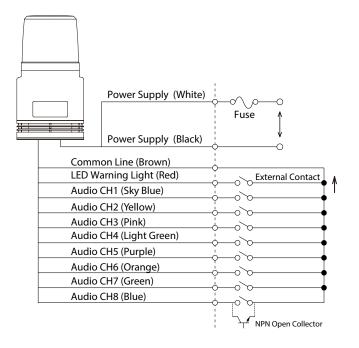
- Actual sound level will depend on sound type and operating conditions.

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

- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

Options

RF-001: Wall Mount Bracket





RF-002 Ceiling Mount Bracket

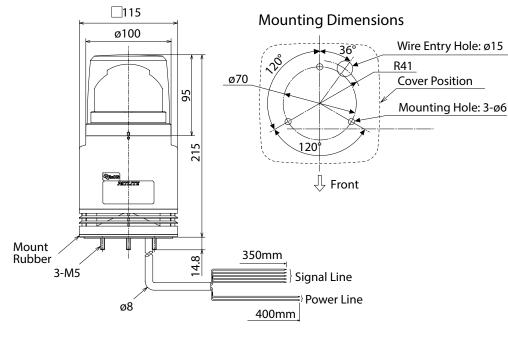
Options

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



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

Dimensions (Unit: mm)



Side access design enables easy post-installation maintenance



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





RFV





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

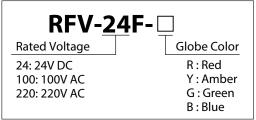
FEATURES

- 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 ORDER

PNP open collector transistor type.

How to Order



SD Card (2 GB) (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. Image: Card does not contain any data.

Specifications

Series	Model	Rated Voltage	Operating Voltage Range	Maximum Power Consumption	Sound Level	Operating Temperature Range	Flashes per Minute	Protection Rating	Vibration Resistance	Mass
	RFV-24	DC 24V	DC 24V ±10%	18 W		10%		1054		1.0kg
RFV	RFV-100	AC 100V	AC 100V ±10%	16W	Max. 95dB (at 1m)	-10°C - +50°C (85%RH or less)	115 ±15	IP54 (When Flush-mounted)	19.6m/s ²	1 24.0
	RFV-220	AC 220V	AC 220V ±10%	1600	(at m)			(when hush-mounted)		1.2kg

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

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

- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

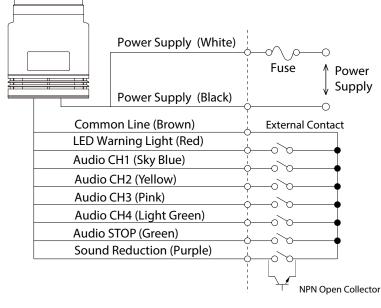
Options

RF-001: Wall Mount Bracket

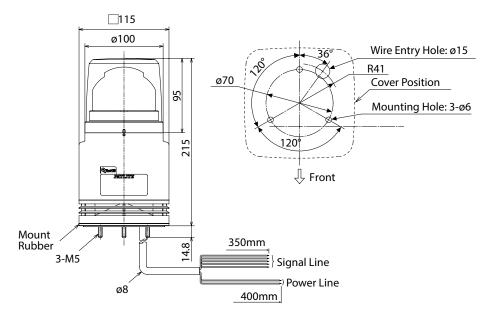


RF-002 Ceiling Mount Bracket





Dimensions (Unit: mm)



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



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



Use of Copyrighted Material

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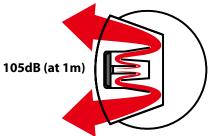


Large horn with revolving warning light featuring clear sound up to 105dB (at 1m).

FEATURES

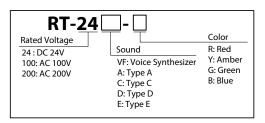
- Built-in Adjustable alarm with a sound of up to 105dB (at 1m).
- High sound quality with the MP3 voice synthesizer (RT-VF only).
- Installation is in the upright position only.
- Dome is made of superior weather-resistant and light-translucent acrylic resin.
- Available colors are Red, Amber, Green, and Blue.
- Complies with EU directives and includes the CE mark (for 24V type). AVAILABLE BY SPECIAL ORDER
- Cable: Versatile and flexible 3m cable
- AC 120V type
- IP65 rating
- UL Conformity

Horn Configuration Concept

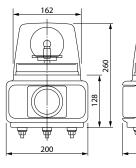




How to Order



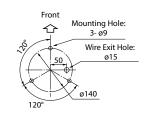
Dimensions (Unit: mm)



Mounting Dimensions

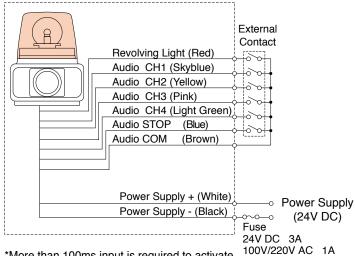
88

198



Wiring

RT-VF

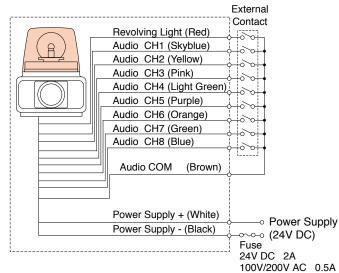


*More than 100ms input is required to activate.

Channel Priority:

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

RT-A/C/D/E



Channel Priority:

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

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

Specifications

Series	Model	Rated	Operating	Power	Bu	lb	Sound	Operating	Rotations per	Sound	Channel	Mass
Series	model	Voltage	Voltage Range	Consumption	Ratings	Repl. No.	Level	Temperature Range	Minute	Level	Input	Mass
	RT-24VF	DC 24V	DC 21 - 27V	24 W	24V 20W	55			115			2.0kg
Voice	RT-100VF	AC 100V	AC 90 - 100V	32 W	121/151/	12V 15W 54	Max. 90dB 54 (at 1m)	-	105		Bit: 4 Binary: 15	2.4ka
	RT-220VF	AC 220V	AC180 - 240V	30 W	120 1500		J4 (at m)		95	Max. 105dB		2.4KY
	RT-24 🗌	DC 24V	DC 21 - 27V	24 W	24V 20W	55		(85%RH or less)	115	(at 1m)	D'' 0	2.0kg
Sound	RT-100 🗌	AC 100V	AC 90 - 100V	32 W	12V 15W	54	Max. 95dB 54 (at 1m)		105		Bit: 8 Binary: 32	2.5ka
	RT-220 🗌	AC 220V	AC180 - 240V	30 W	120 1500 54		4 (at 111)		95			2.5ку
Notes:	otes: - Actual sound level will depend on sound type and operating conditions.											

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

- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

Sound Chart

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

Use of Copyrighted Material

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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.

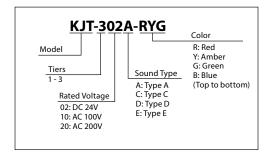
Sound Chart

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

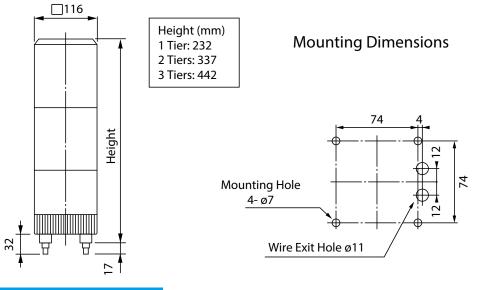
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How to Order

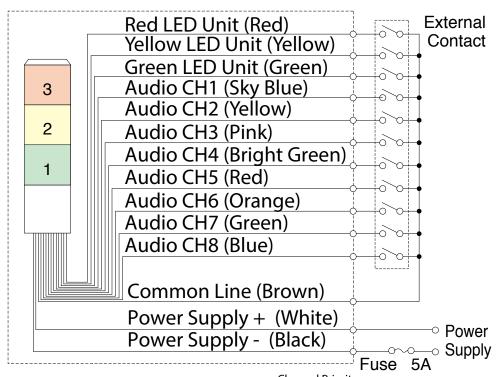


Dimensions (Unit: mm)





Wiring



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

Specifications

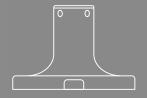
	Model		Rated	Operating Power		Bulb		Rotations per Minute	Sound	Operating	Channels	Mass
			Voltage	Voltage Range	Consumption	Ratings	Repl. No.	perminute	Level	Temperature Range		
		KJT- 102	24V AC/DC	AC/DC 21 - 27V	25W/18W	24V 10W	10	135				1.4kg
	1 Tier	KJT- 110	AC 100V	AC 90 - 110V	20W	12V 5W	12	120				1.7kg
		KJT- 120	AC 200V	AC 180 - 240V	2000	120 500		120		20% 50%		1.7 Kg
		KJT- 202	24V AC/DC	AC/DC 21 - 27V	36W/28W	24V 10W	10	135	of ID ()			2.0kg
Alarm/ Melody	2 Tier	KJT- 210	AC 100V	AC 90 - 110V	26W	12V 5W	12	120	95dB (at 1m)	-20°C - +50°C (85%RH or less)	8 Ch	2.4kg
Miclouy		KJT- 220	AC 200V	AC 180 - 240V	2000	120 500	12	120)	(85%RH of less)		2.4Kg
		KJT- 302	24V AC/DC	AC/DC 21 - 27V	47W/38W	24V 10W	10	135				2.6kg
	3 Tier	KJT- 310	AC 100V	AC 90 - 110V	32W	12V 5W	12	120				3.0kg
		KJT- 320	AC 200V	AC 180 - 240V	5270	120 500	12	120				S.UKG

Notes:

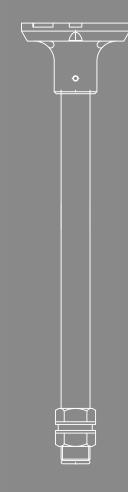
- Actual sound level will depend on sound type and operating conditions.

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- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing



Optional Parts



Optional Parts

Wall Mount Bracket

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

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.



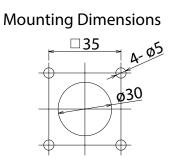
Join the connectors together.

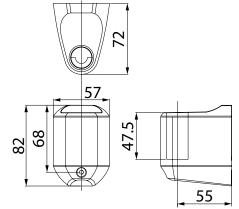


Hook the mounting bracket onto the metal tabs and attach it with the screws.

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







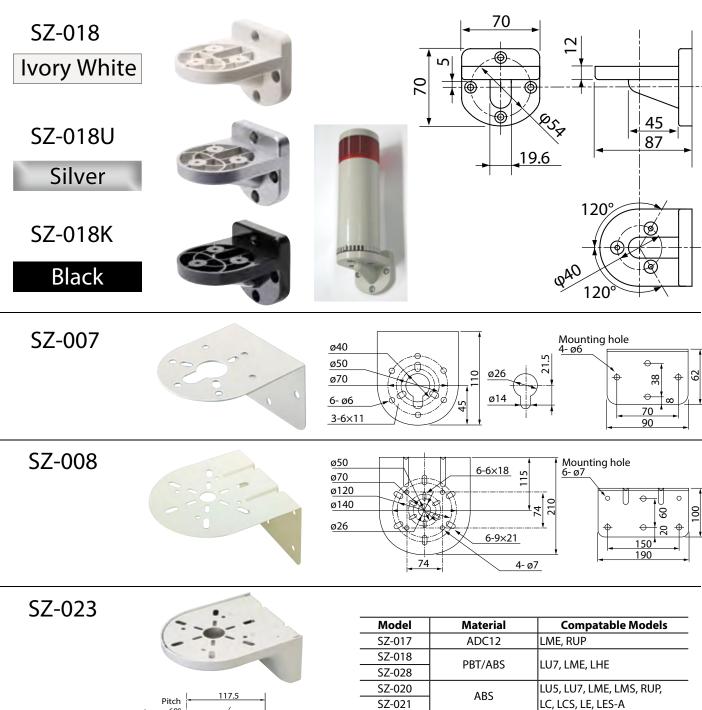


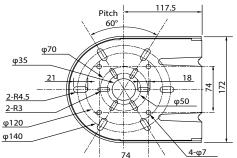
Wire connector SZ-020-001 (Sold Separately)

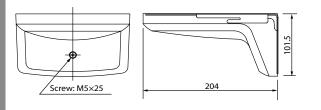
MP Options **FEATURES** MP-B Double-insulation for enhanced durability and safety Direct mount installation with just a single screw Main body made of heat resistant ABS resin for superior impact **Signal Tower Option** resistance Compatible with the MP and MPS Signal Tower (The Red module is required when using the optional MP-B) Operates in conjunction with the Red LED module (Alarm activation with other colors must be special ordered). φ 30mm -Buzzer Bracket Buzzer Horn O-ring Main Unit Power Consumption Rated Voltage Model Sound Level 60mm MP-B AC/DC 24V 80dB (at 1m) 0.7W Buzzer Bracket **Requires Red LED Module** (Unit: mm) **CLA Options** Option Option Option Option Rear Attachment Side Attachment Side Attachment Rear Attachment (Magnetic Mount) (Screw Mount) (CLB-24N Compatible) (Stainless Steel Screw Mount) Model SZ-310ARM Model SZ-310AS Model SZ-310ASB Model SZ-310EU **CLK Options** Daisy Link at a maximum of five units M12 Quick Disconnect 4-wire M12 Socket Cable, 5m 4-wire M12 Link Cable, 0.6m (No. 1536308) (No. 1518892) 4-wire M12 SUS Socket Cable, 5m 4-wire M12 SUS Link Cable, 0.6m (No. 1552447) (No. 1552638) **CLK/CWK** Options Angle Adjustment Bracket **One-touch Installation** Surface Mounting Bracket **SZ-320KS CLK-001** SZ-330KP

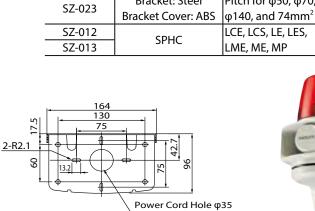
Wall Mount Bracket

Optional Parts









Electro Galvanized

Steel

Bracket: Steel

SZ-007

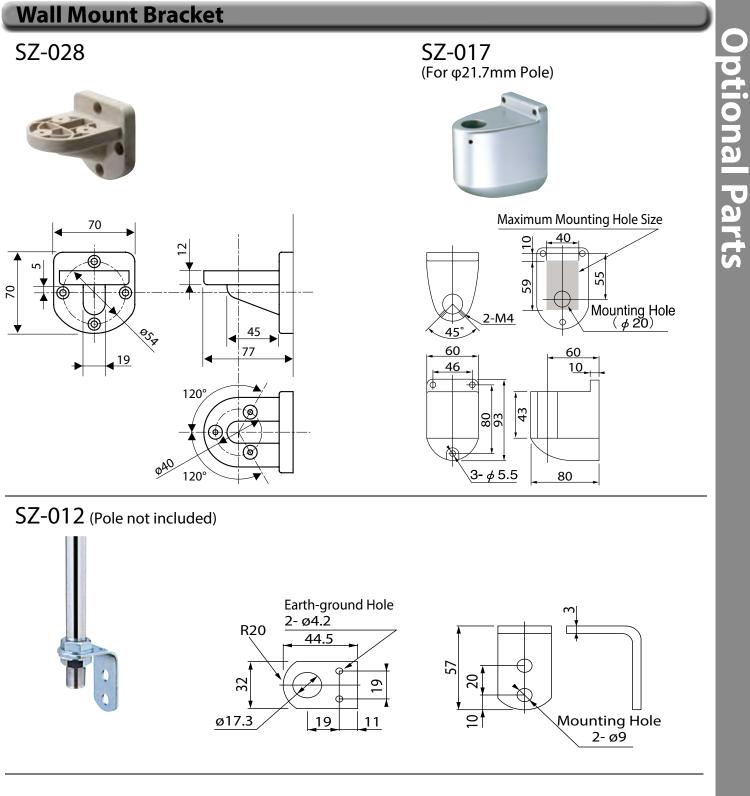
SZ-008



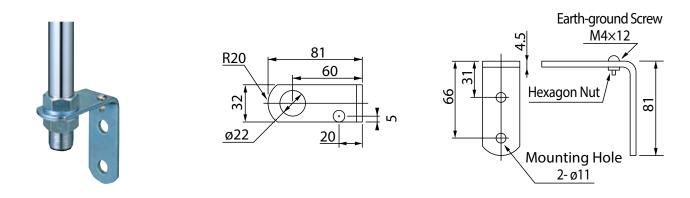
LU7, LHE-A, Pitch for φ50,

Pitch for φ50, φ70, φ120,

φ70, φ120, φ140 and 74mm²

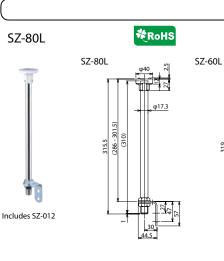


SZ-013 (Pole not included)



Mounting Pole



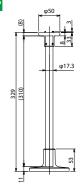




305)

319 (290 - 3





		Material										
Model	Upper Bracket	Pole	'L' Bracket	Cord Bushing	Mounting Bracket	Compatable Models						
SZ-80L	ABS	C. I	SPHC	6/6 Nylon	—	LCE-W						
SZ-60L	ADC12	Carbon-steel Pipe	SPHC	6/6 Nylon	—	LE-W, LES-AW						
SZ-60T	ADC12	i ipc	—	—	ADC12	LE-VV, LES-AVV						
SZ-70L	ABS	<u> </u>	SPHC	EPT	—	LME-W						
SZ-50L	ADC12	Carbon-steel Pipe	SPHC	EPT	—	LU7, LHE-A						
SZ-50T	ADC12	Pipe	—	—	ADC12	LU7, LHE-A						
SZ-40L	ADC12		SPHC	EPT		KUS						
SZ-40T	ADC12	Carbon-steel	_	_	ADC12	KUS						
SZ-30L	ABS	Pipe	SPHC	EPT	—	RLE, RU, RH, PS,						
SZ-30T	705		—	—	ADC12	PES-A						
ADC12	Alumainum /	Illow Dia cast			Dollod Millod	(Chaot) Stool						

φ70

ADC12: Aluminum Alloy Die-cast EPT: Ethylene Propylene Rubber PBT: Polybutylene Terphthalates

SPHC: Hot Rolled Milled (Sheet) Steel CRMS: Cold-rolled Milled Steel ABS: Acrylonitrite Budadiene Styrene





70 sq.

SZ-40T Rohs









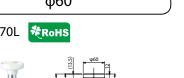
Includes SZ-010

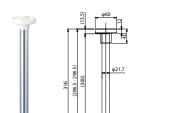
φ81





Includes SZ-013 Cannot use with Rubber Gasket. Includes SZ-010 Cannot use with Rubber Gasket.

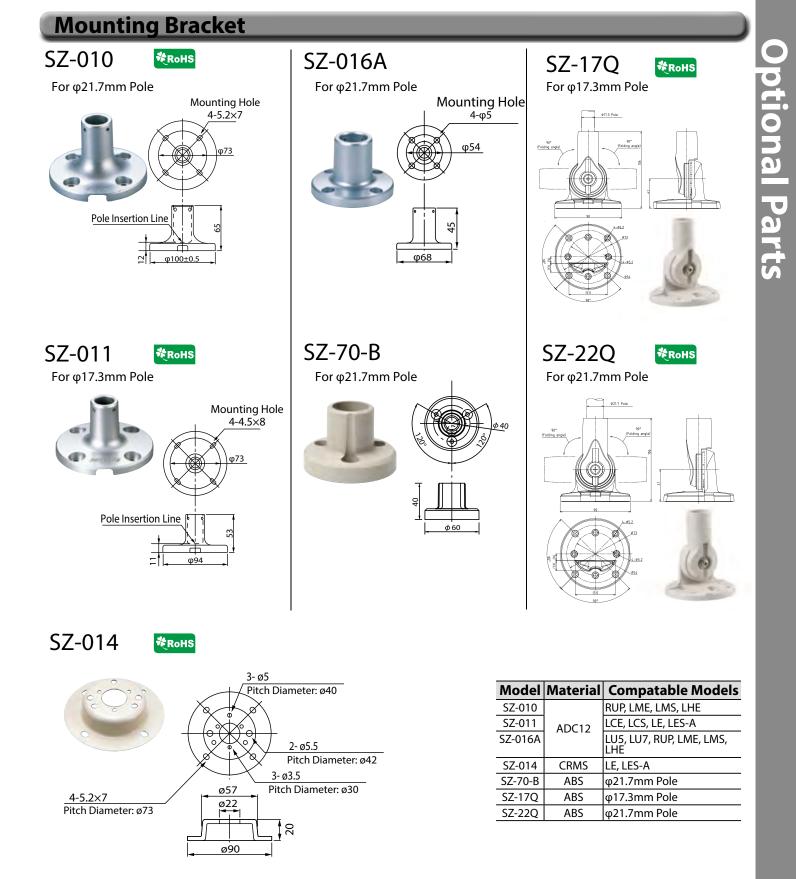


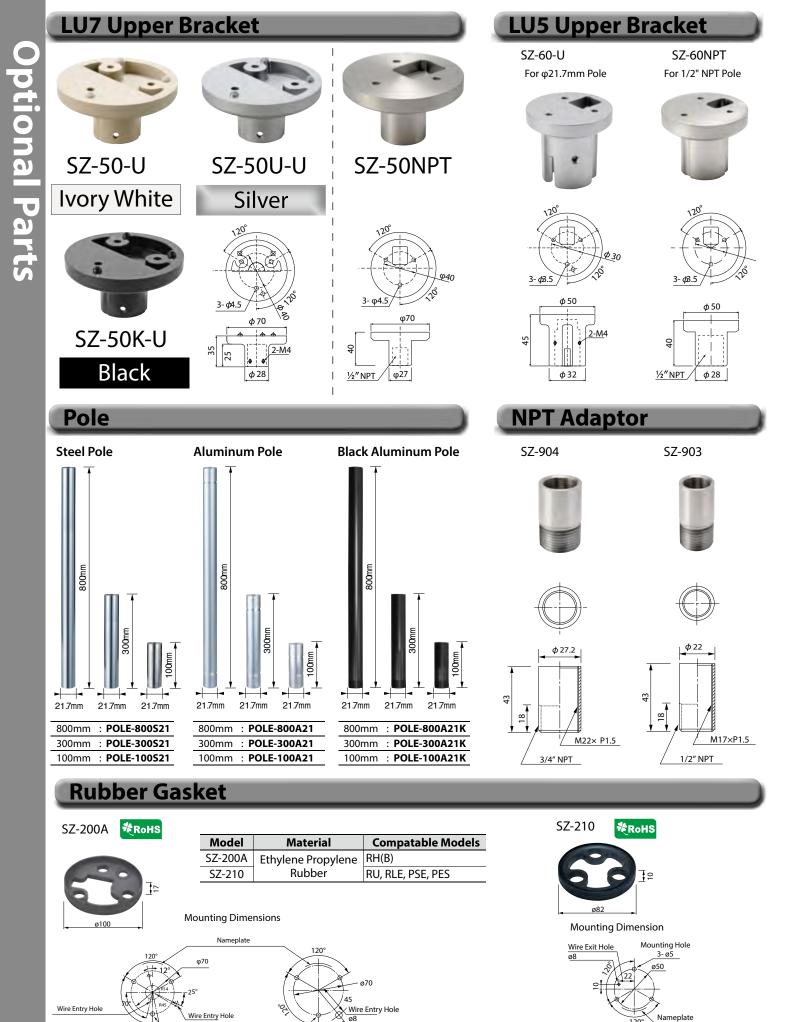












200

ø8

Mounting Hole 3- ø6

(Unit: mm)

120







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



 Pole Bracket (Off-white) B22210134-7F1



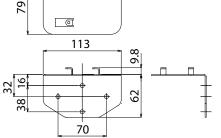
• Waterproof Ring 'B' B25110042-F1



Optional Parts

NHL Options

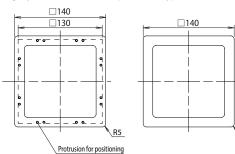
Wall Mount Bracket NH-WST



BKV Options

BK-001 Size Adjustment Bracket

This bracket is used to install the annunciator in a place where holes have already been drilled for legacy PATLITE Products (φ 133mm² Type)

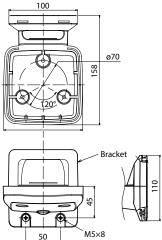


RFT/RFV Options

Wall Mount Bracket



RF-001 Wall Mount Bracket



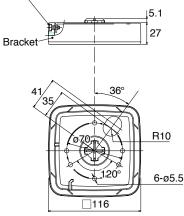
Ceiling Mount Bracket



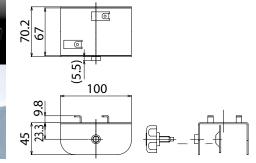
RF-002 Ceiling Mount Bracket

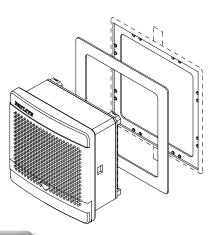
M4×10

R5



Partition Bracket NH-PST









Melody Charts

Туре А			(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	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	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	Amairono Kamino Otome Les Champs-Elysees		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 (Worldwic				
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-F
RP35/BA15S	2	24V 35W	D02403501-F1		40	110V 12W	D11001211-
	E	Ratings 12V 35W 24V 35W 48V 35W	D04803503 51	 T20/BA15D	41	250V 11W	D25001111-
RP35/BA15D		400 3300	D04803302-F1		42	12V 23W	D01202305-
\frown	8	6V 3W	D00600303-F1	0			
(\mathbf{z})	9	12V 10W	D01201003A-F1	S25/BA15S	43	24V 25W	D02402505-F
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-
	14	110V 10W	D11001006A-F1				
ų,	15	220V 10W	D22001006A-F1	5			
- The second sec	16	110V 15W	D11001506A-F1	T20/BA15D Vibration			
T20/E12	17	220V 15W	D22001506A-F1	Resistant	51	110V 20W	D11002011
	18	12V 6W	D01200604-F1			1100 2000	D11002011-
ی G14/BA9S	19	24V 6W	D02400604-F1		53	250V 20W	D25002011-
	22	110V 3W	D11000307-F1	T20/BA15D			
	27	12V 0.11A	D012/1107-F1		54	12V 15W	D012001503
T10/E10	28	24V 0.11A	D024/1107-F1	G18/BA15S	55	24V 20W	D02402003-
	36	120V 40W (Vibration Resistant)	D12004024-F1	G18/BA15S			<u> </u>
	37	220V 30W	D22003024-F1				

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

RP35/BA15D

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

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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 9770-9E-mail:

PATLITE KOREA CO., LTD. A-2603, Daesung D-POLIS, 606, Seobusaet-gil, Geumcheon-gu, Seoul, 08504, Korea TEL.+82-2-523-6636 FAX.+82-2-861-9919

PATLITE TAIWAN CO., LTD.

7F. No. 91, Huayin St, Datong District Taipei, Taiwan R.O.C TEL.+886-2-2555-1611 FAX.+886-2-2555-1621 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