

GENERAL CATALOG







Sensormatic srl - Via della Beverara 13 - 40131 Bologna - Italia Tel. +39 051 6353 511 - Fax +39 051 6345 925 - www.sensormatic.it



New Products



E LA6

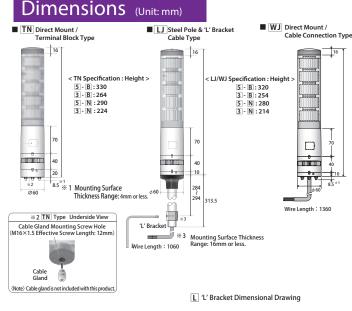
Signal Tower



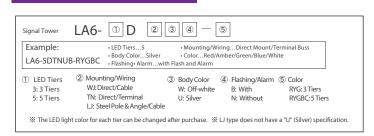
Display a variety of colors in various ways to improve your processes.

FEATURES

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



How to Order





An internal Mode Switch is available.

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



A new lens design optimizes visibility.

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



Freely change luminescence colors and patterns with editing software.

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

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



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

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

Replacement Parts



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



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



Waterproof Ring 'B' B25110042-F1

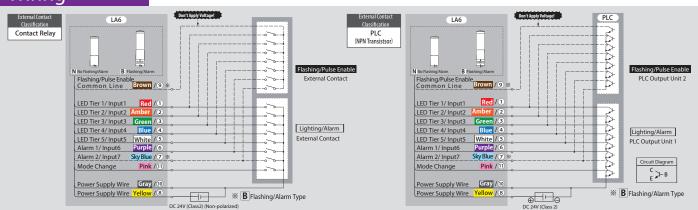


Pole Bracket (Off-white) B22210134-7F1



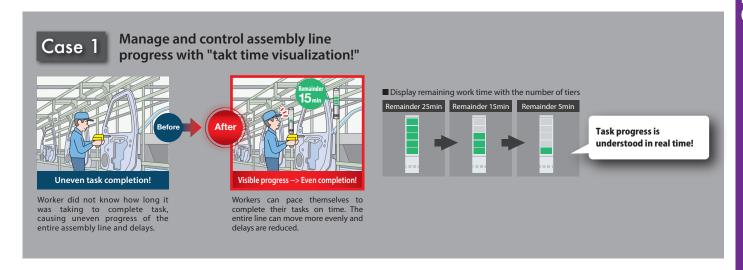
Waterproof O-ring B25110047-F1

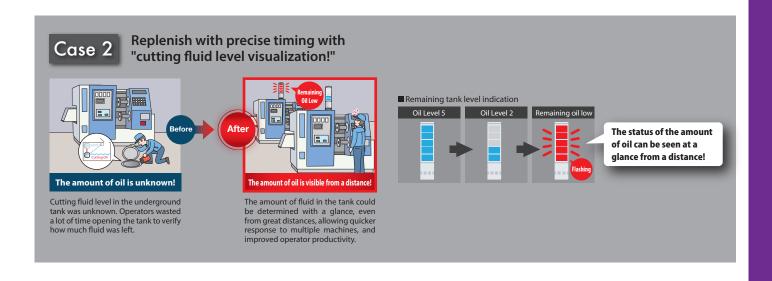
Wiring

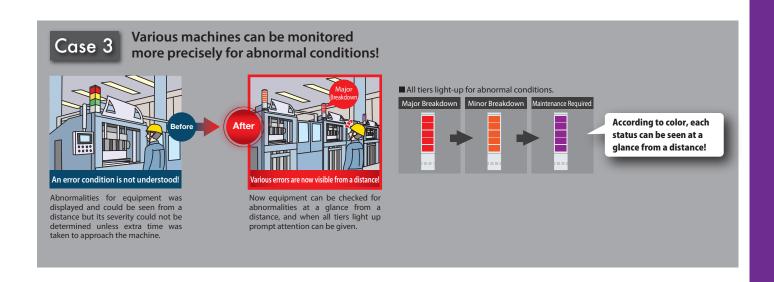


Model				LA6	-0 D 000-0	
Rated Voltage					DC24 V	
Operating Volta					Rated Voltage	
Standard		LA6-5 D□□N-RYGBC			D□□B-RYGBC	6.5W
Rated Power		LA6-3D _□ N-RYG	3.5W		D□□B-RYG	4.5W
Consumption	Vlaximum	LA6-5 D _□ N-YYYYY	7W		D _□ B-YYYYY	8W
Test Conditi	<u> </u>	LA6-3D□□N-YYY Power Consumption	4.5W		D□□B-YY	5.5W
Signal Wire Cur		Power Consumption	test with diarm set a		mum 70mA	dinum voiume
Standby Currer					mum 15mA	
Operating Ambi						
Temperature	ici ic			-25	□ to +60□	
Operating Hum	nidity Range		Less th	an 90% RH (l	No Dew or Cor	ndensation)
Storage Tempe Range	rature			-25	□ to +60□	
Storage Humid	ity Range		Less th	an 90% RH (l	No Dew or Cor	ndensation)
Mounting Loca					door Only	
Mounting Direc					verted Direction	
Protection Ratio					arm: IP54) IEC 6	
Test Conditi	on				an upright pos	
		LA6-uuLJuu Acc	Sweep Durability: Total amplitude: 0.3 mmp-p (10 - 57.5 Hz), LA6-□□LJ□□ Acceleration: 20.0 m/s2 (57.5 - 150 Hz) Fixed pitch durability: Acceleration 20.0 m/s2			
Vibration Resist	tance	Sweep Durability: Total amplitude 0.3 mmp-p (10 - 57.5 Hz), Acceleration: 20.0 m/s2 (57.5 - 150 Hz)				
		Fixed Vibration Frequency Durability: Acceleration 10.0 m/s2 JIS C 60068-2-6:2010				
Test Conditi	on	Tested while installed in an upright position				
Insulation Resis		More than 1 Mohm at DC500V between the power input lead and chassis.				
Withstand Volta		500VAC for 1min between terminals and chassis without breaking insulation				
Display Color		red (1000 mcd) yellow (1700 mcd) green (2600 mcd) blue (1000 mcd) white (1250 mcd)				
(Typical Lumino Intensity)	ous	Purple (800 mcd) pink (850 mcd) cyan (2150 mcd) lemon (2150 mcd) * Due to the characteristics of the LED elements, a variation in difference of the color tone and brightness of every product may occur.				
Flash Rate		60 ±2 fpm				
			ntinuous beep sound			intermittent beep
			ng intermittent beep			ntermittent beep
Alarm Sound		No. 5 3600Hz Cor				intermittent beep
(Typical Freque	ncy)		ng intermittent beep			ntermittent beep
			375Hz Multiplexed B		J2400Hz & 360	0Hz Multiplexed Beep
Sound Level		No. 11 4000Hz & 4	800Hz Multiplexed B	<u> </u>	mum: 85dB	
Test Conditi	on	Alari	m Sound No 1 mass			n of the alarm opening at 1m
Tiest Conditi	OII	Aldi				y Default: Maximum).
Volume Contro	I	[Maximum] -> [-5dB Returns to [Maximur	drop from maximum			o from maximum (standard)] -> [OFF]
II Jata Transter 🛏	Main Unit	USB micr	o-B Terminal Femal	e USB2.0)/1.1 Interface,	Transmission Rate: USB2.0/1.1/1.0
Interface	Transfer Cable	Charge /				ctor: USB Male- USB (MicroB) male
Application Sof	ftware					e from our Homepage)
			LA6-3DLJ□B		LA6-3DWJ□B	450g
Mass (Tolerance	e 10%)		LA6-3DLJ□N		LA6-3DWJ _D N	400g
,			LA6-5 DLJ B		LA6-5 DWJ B	
		LA6-5 DTN _□ N 530g	IILA6-5 ULJ⊓N	[1040g	LA6-5 DWJ□N	510g
						F0F01)
Compliants	andards	EMC Directive (EN 61	000-6-4, EN 61000-6	-2) RoH	S Directive (EN	
Compliance Sta	andards		000-6-4, EN 61000-6 0.14	-2) RoH KC (

Success Story







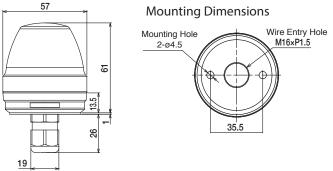


NE-M1-CL7 Series LED Dome Signal Light; One Signal Light with 7 LED color combinations provide multiple solutions with years of maintenance-free operation.

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.

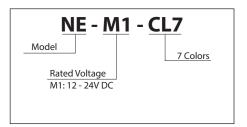
Dimensions (Unit: mm)



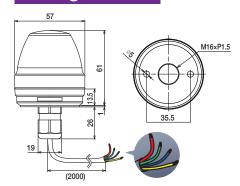
Specifications

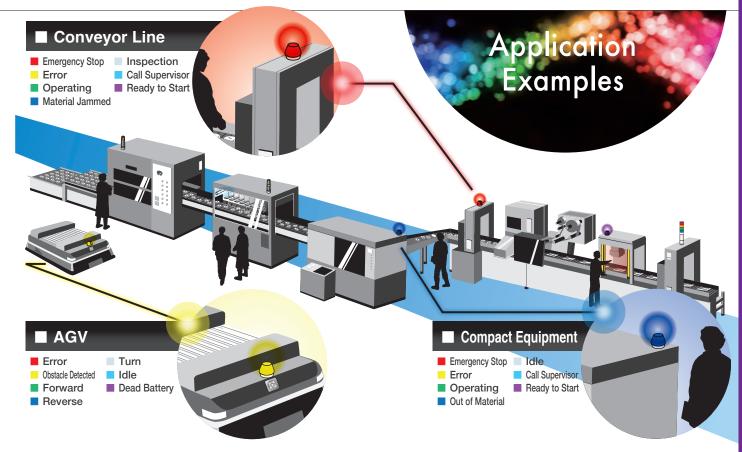
Model		Rated Voltage	Operating Temperature Range	Operating Humidity	Protection Rating	Mass
NE-M1-CI	.7	12 - 24V DC	-30 C - +50 C	90% or less	IP66/IP67	55g

How to Order



Wiring





■ Diverse Color Possibilities

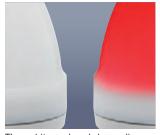


■ Compact Size



A compact design to fit with any piece of equipment.

■ Opaque Lens



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

■ Environmental Resistant Characteristics



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

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

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

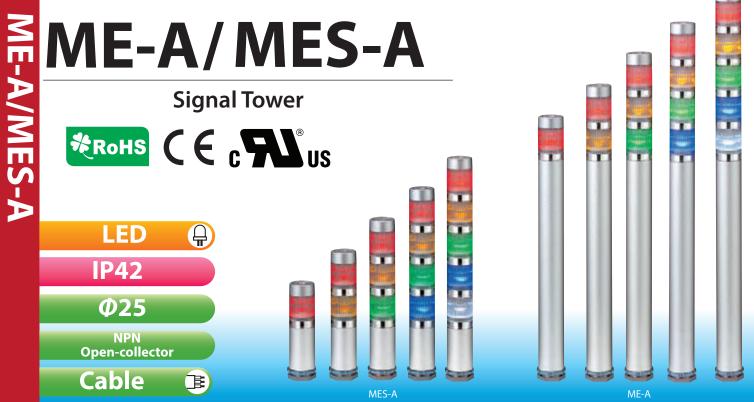


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Signal Tower





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

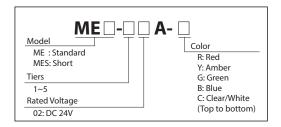
FEATURES

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

AVAILABLE BY SPECIAL ORDER

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

How to Order



Patented reflection



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

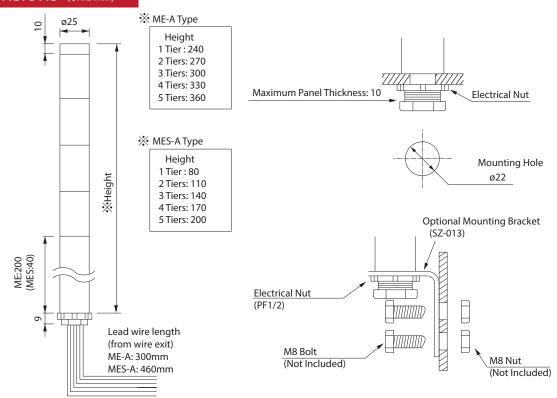
Interchangeable LED Modules Changeable color sequence: Easy to add/ remove up to 5 colored modules even after installation. Note: LED modules of the same color within a

signal tower will light up simultaneously.

Wiring doesn't change

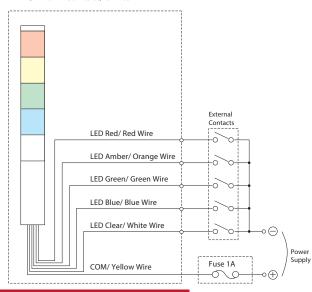
The LED Module colors correspond to the wiring, so re-wiring is not necessary.

Dimensions (Unit: mm)

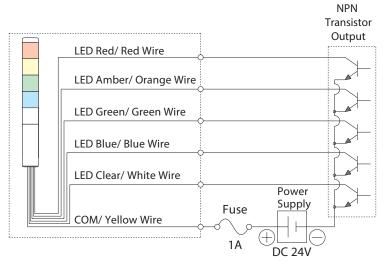


Wiring

• ME-A/MES-A Contact/ Switch



• ME-A/MES-A NPN Open Collector



Specifications

Stack		Rated	Power	Ma	ass
Number	Model Voltag		Consumption	ME	MES
	ME/MES-102A-R		0.6W		
	ME/MES-102A-Y		0.6W]	
1 Tier	ME/MES-102A-G		0.5W	220g	120g
	ME/MES-102A-B		0.5W]	
	ME/MES-102A-C	1	0.5W		
	ME/MES-202A-RY		1.2W		130g
2 Tiers	ME/MES-202A-RG	DC 24V	1.1W	230g	
2 11613	ME/MES-202A-RB		1.1W	2309	
	ME/MES-202A-RC		1.1W		
	ME/MES-302A-RYG		1.7W		140g 150g
3 Tiers	ME/MES-302A-RYB	İ	1.7W	240g	
	ME/MES-302A-RYC		1.7W		
4 Tiers	ME/MES-402A-RYGB		2.3W	250g	
4 11613	ME/MES-402A-RYGC		2.3W	2309	
5 Tiers	ME/MES-502A-RYGBC		2.8W	260g	160g

MP/MPS Signal Tower

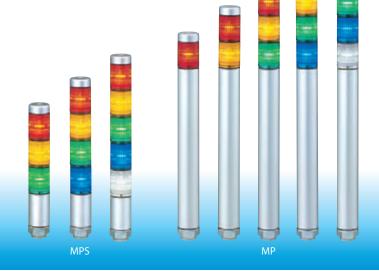






Patented reflection system increases visibility.

Open-collector



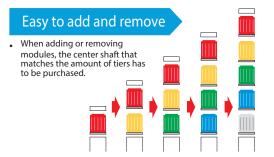
Super slim 30mm silver body Signal Tower, ideal for small devices.

FEATURES

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



Optional MP-B Buzzer (See Pg. 193)



Interchangeable LED Modules

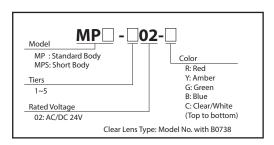
Changeable color sequence: Easy to add/ remove up to 5 colored modules even after installation.

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

Wiring doesn't change

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

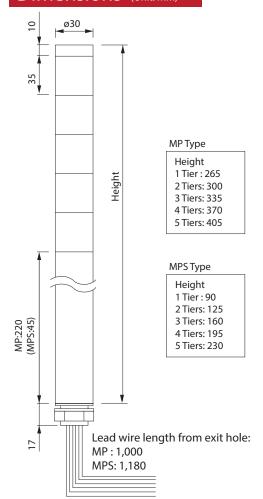
How to Order

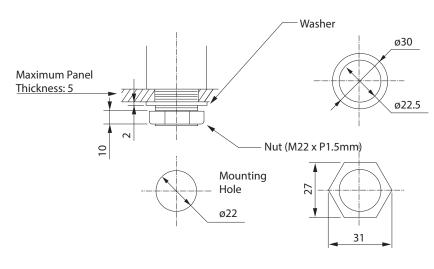


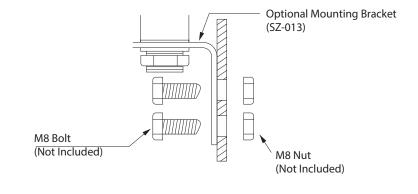
Specifications

Stack Model		Rated Voltage	Power	Mass		
Number	Model	Nated Voltage	Consumption	MP	MPS	
1 Tier	MP/MPS-102		0.7W	210g	110g	
2 Tiers	MP/MPS-202	AC/DC 24V	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	

Dimensions (Unit: mm)

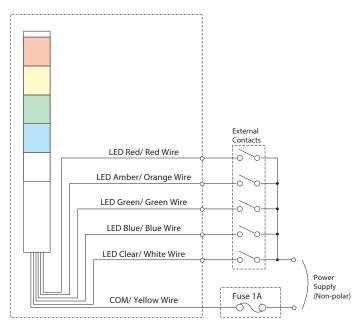


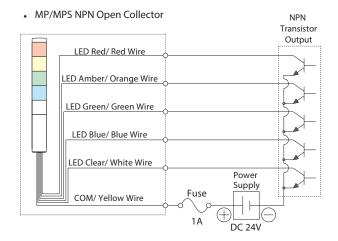




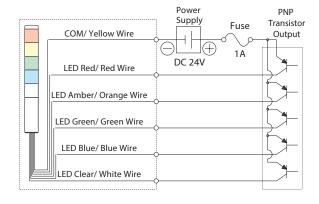
Wiring

MP/MPS Contact/ Switch

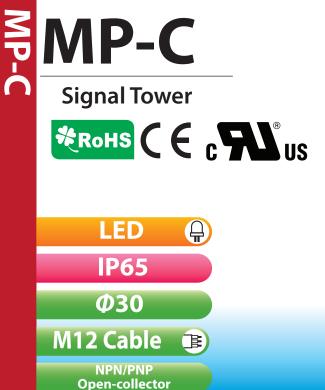




MP/MPS PNP Open Collector









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

FEATURES

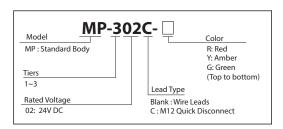
- Quick Disconnect M12 connector for the MP Signal Tower.
- · PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- · Double-insulated construction for enhanced durability and safety in the work environment.
- · Direct mount installation with just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



(See Pg. 193)

Patented reflection system increases visibility.

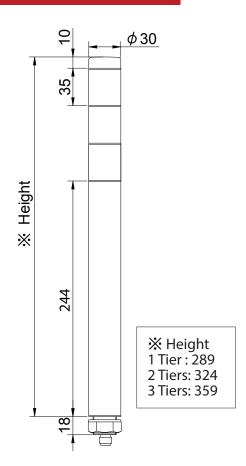
How to Order

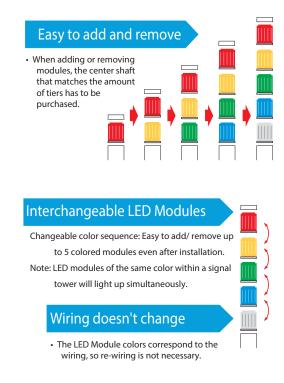


Specifications

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	Is: Current Ca	Is: Current Capacity		Vs: Withstand Voltage	
–	Current Consumption	Red: 29.mA	Red: 29.mA Amber: 29.5r		Green: 23.9mA
	Capacity	Is≥50mA	Is≥50mA		Vs≥35V DC
Dower Supply	Current Consumption	·	200mA		
Power Supply	Capacity	ls≥200mA	ls≥200mA		Vs≥35V DC

MP-C M12 Connector

M12 Connector Pin No.

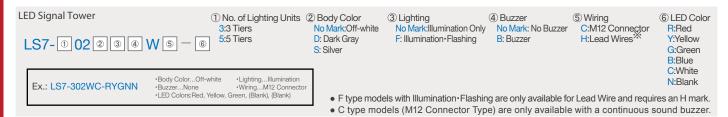
Pin No.	LED Unit Color		
1	Green		
2	Red		
3	Common		
4	Amber		





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

How to Order



Specifications

	Number of						Operating			Ma	SS:	
Model	Lighting	Rated	Mounting	Rated Current	Maximum	Maximum Sound	Temperature	Protection	Lead-wir	e Type (H)	M12 Connect	tor Type (C)
Wiodei	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	Red: 20mA Amber, Green, Blue,	Red: 35mA Amber, Green, Blue,	Buzzer1 ab. 82dB Lead-wire Type (Intermittent Beep1) M12 Connector Type (Continuous Beep)	-30°Cto+60°C (Less than	Illumination Type: IP65*	280g	370g	260g	320g
LS7-502	DC 24V (±10%) (Indoo	Only)	Clear/White 30mA Alarm 40mA	Clear/White 40mA Alarm 55mA	Buzzer2 ab. 85dB Lead-wire Type (Intermittent Beep2) M12 Connector Type (None)	85% RH)	Buzzer Type: IP54	±10%	±10%	±10%	±10%	

^{*} IP67 available by special order





A smooth-surfaced body without any metal exposed

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



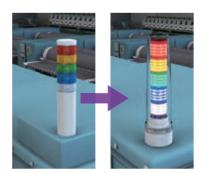
In addition to the existing lead wire, M12 connector quick disconnect is also available. Moreover, when moving to carry and to go out of the device, it is possible to detach it easily with Speaker Horn (Alarm Type)

the M12 connector.

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

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





Easy attachment, no need for Relay Box

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

Fixed Mounting Style

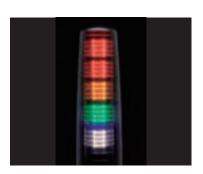




M12 Connector Wiring & Tiered Construction

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

Stackable Construction



High-contrast Visibility

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

Remarkable display in ANY environment

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

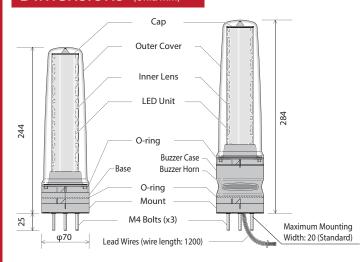


All-plastic Bracket

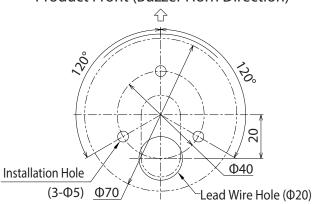
Like the body, the smooth-shaped platform bracket won't collect water or dust. Since no metal parts like screws and shafts are exposed, worries of food tampering can be put to rest in the food process lines.



Dimensions (Unit: mm)



Product Front (Buzzer Horn Direction)



Optional Parts

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

Platform Bracket SZ-100



Wall Mounting Bracket SZ-110



Multi-mount Bracket SZ-130



Front (Audible Alarm Opening) Nameplate Position (No Alarm) Nameplate Position (No Alarm) Nameplate Position (With Alarm)

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

*Only for connecting to the LS7.







O-ring for LS7

Material: Silicone



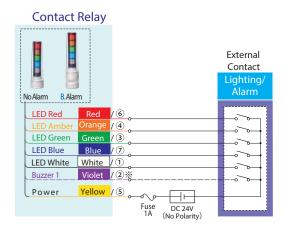
Mount Cover for LS7 (Accessory)

Material: Silicone

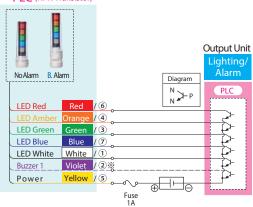


Material: Polycarbonate

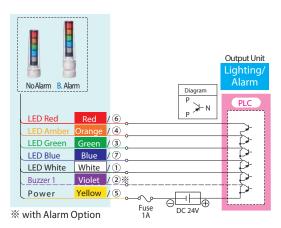
Wiring

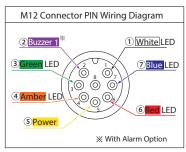


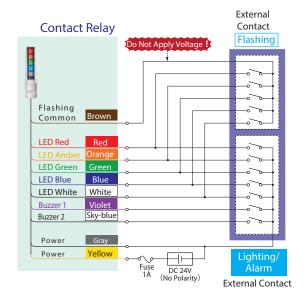




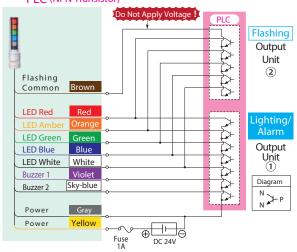
PLC (PNP Transistor)



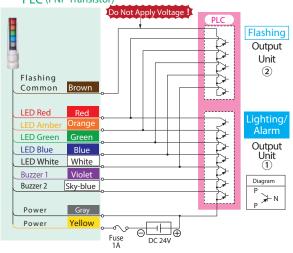








PLC (PNP Transistor)



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

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



Ultra Bright LEDs combined with an **Innovative Prism Lens Design**

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



Color-coordinated & **Spring-loaded Terminal Block**

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



Wiring Terminals

Two user-selectable Alarms Integrated in the Base Module

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



Delivers Sounds up to 90dB (at 1 m)

Alarm can be easily heard over ambient noise.

Modular Design

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



Modular Construction

O-rings

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



IP65 Protection

IP65 & IP66 with Optional Cable Gland

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





Signal Tower





 ϵ

LED

Alarm Sound (FB Type)

85_{dB at 1m}

IP54

Φ100

NPN/PNP Open-collector

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

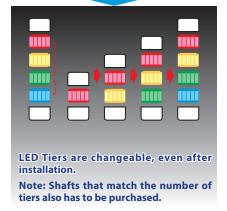


PATLITE's triple-reflection system creates an even brighter and distinctive illumination with its exclusive hybrid prism-cut lens for 5 color LED module variations.

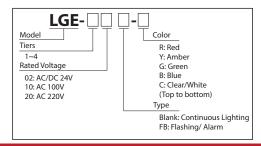
Interchangeable LED Modules

FEATURES

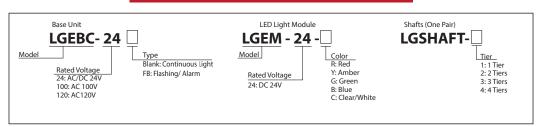
- PATLITE's large prism cut lens to enhance illumination in the downward direction. (Lens Size: ϕ 100mm x 60mm high)
- The FB type offers a flashing and continuous lighting pattern.
- A built-in buzzer (FB type) has a sound of up to 85dB (at 1m).
- Direct mount Installation.
- Interchangeable Modules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



How to Order (Pre-assembled)



How to Order (Module)







Amber



Green



Blue



Clear/White

Specifications (Pre-assembled)

(No Alarm)

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

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

Light System	Model	Rated Voltage	Power Consumption	Mass	
	LGE-102FB	AC/DC 24V	2.5W	0.4kg	
1 Tier	LGE-110FB	AC 100V	5.7W	1 01/0	
	LGE-120FB	AC 220V	3.7 VV	1.0kg	
	LGE-202FB	AC/DC 24V	4.5W	0.6kg	
2 Tiers	LGE-210FB	AC 100V	8.2W	1.2kg	
	LGE-220FB	AC 220V	0.2 VV	1.2kg	
	LGE-302FB	AC/DC 24V	6.5W	0.8kg	
3 Tiers	LGE-310FB	AC 100V	10.7W	1 4140	
	LGE-320FB	AC 220V	10.7 VV	1.4kg	
	LGE-402FB	AC/DC 24V	8.5W	0.9kg	
4 Tiers	LGE-410FB	AC 100V	13.2W	1 Eka	
	LGE-420FB AC 220V		13.200	1.5kg	

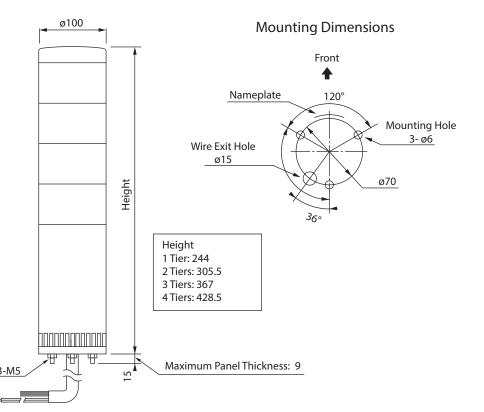
Specifications (Modules)

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

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

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

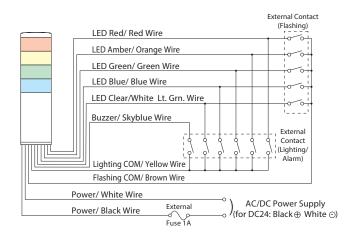
Dimensions (Unit: mm)







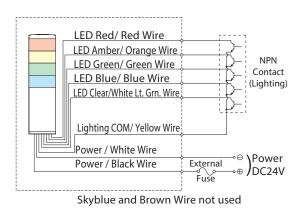




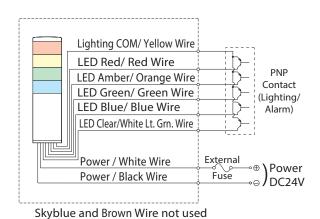
Signal Line vo	oltage and cui	rent per	LED Module
		LED	Alarm

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

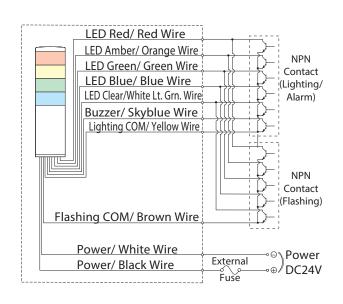
DC 24V NPN Type



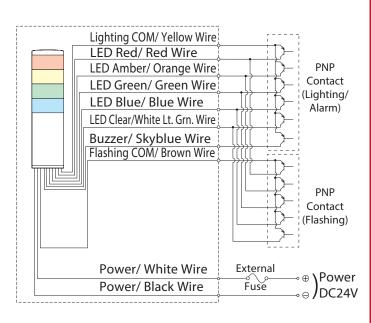
DC 24V PNP Type



DC 24V NPN FB Type



DC 24V PNP FB Type



WE/WEP Signal Tower *ROHS (C) SI





2 Alarm Sounds (FB Type)

90dB at 1m (FB Type)

P65 (FB Type: IP54)

NPN/PNP **Open-collector**

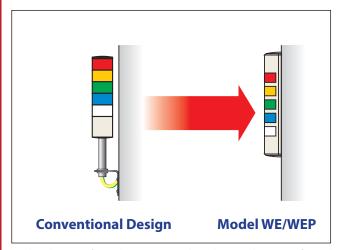


Ultra slim half-moon shaped Signal Tower offers seamless integration with most equipment.

FEATURES

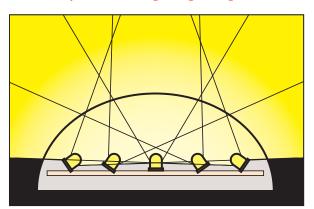
- Clear vertical-cut lens for enhanced illumination over a wide perspective.
- Has an optional built-in audible alarm (FB type) with an output of 90dB (at 1m).
- Installation can be vertical or horizontal.
- Two body color selections of chrome plated or ivory white.
- Lens made of superior impact and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

37.5mm Super-thin Design!

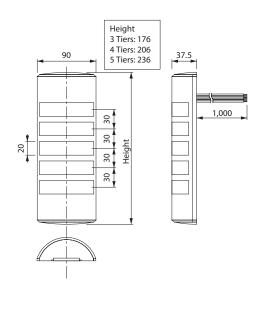


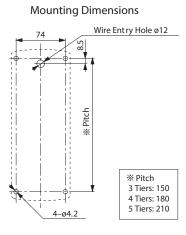
Patlite has perfected a 37.5mm-thin design that significantly enhances integration with the equipment as a built-in signal system.

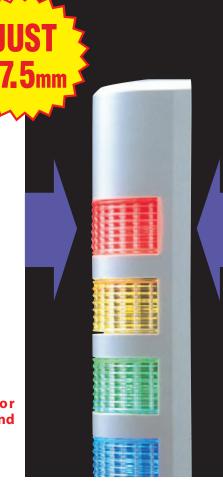
Exclusively New LED Lighting Design

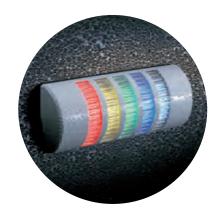


Patlite has created a revolutionary patented lighting design in which multiple LEDs project light across a broad peripheral area, ensuring equal intensity at the sides as well as the front. This design, with its side-projection technology, is a unique achievement in signal light design.



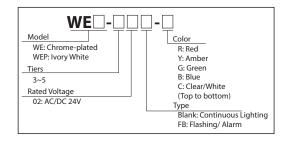






IP65 construction is safe for installation in damp locations and dusty factory environments.

How to Order



Specifications

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

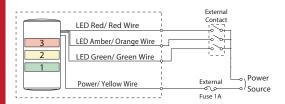
Alarm Sounds	Lead Wire Color
Buzzer 1	Purple
Buzzer 2	Skyblue

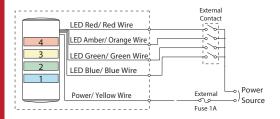
Signal Line voltage and current per LED Module

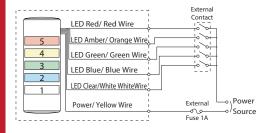
	B		LE	D	Alar	m	
Model	Rated Voltage	Signal Line Voltage	Signal Lin	e Current	Signal Line	Inrush	
	voltage voltag		Tomage Tomage	R, Y	G, B, C	Čurrent	Current
WE/WEP	AC/DC 24V	AC/DC 24V	30mA	25mA	40mA	250mA	

Wiring

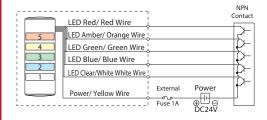
AC/DC 24V Lighting Type



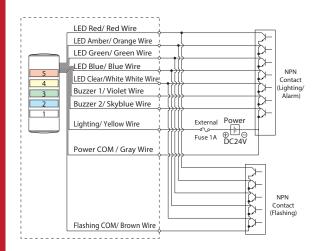




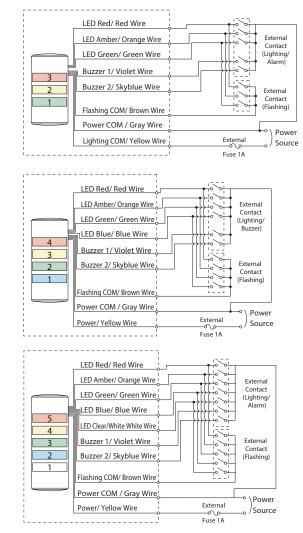
DC 24V NPN Type



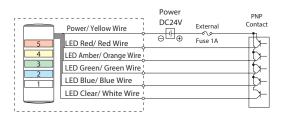
DC 24V NPN FB Type



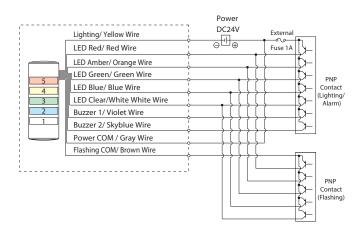
AC/DC 24V Lighting/Flashing Type



DC 24V PNP Type



DC 24V PNP FB Type





WME-A

Signal Tower













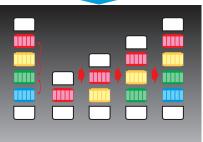


W70 D80

Open-collector

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

Interchangeable LED Modules



LED Tiers are changeable, even after installation.

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

FEATURES

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

AVAILABLE BY SPECIAL ORDER

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

5 "Super Bright" LED Colors to choose from!

Red

Amber

Green

Blue

Clear/White



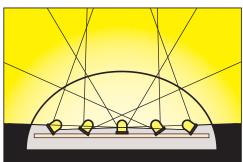






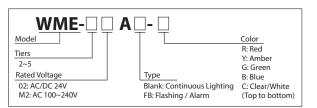


Exclusively New LED Lighting Design



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

How to Order



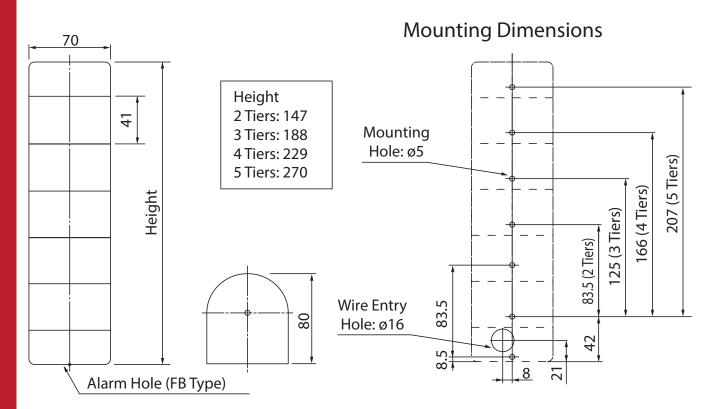
Specifications

Stack Number	Model	Rated Voltage	Power Consumption	Mass
2 Tiana	WME-202A	AC/DC 24V	2.7W	390g
2 Tiers	WME-2M2A	AC 100 - 240V	4.6W	460g
3 Tiers	WME-302A	AC/DC 24V	3.3W	470g
3 11613	WME-3M2A	AC 100 - 240V	6.0W	540kg
4 Tiers	WME-402A	AC/DC 24V	4.4W	550g
4 11613	WME-4M2A	AC 100 - 240V	8.0W	620g
5 Tiers	WME-502A	AC/DC 24V	5.5W	630g
3 Heis	WME-5M2A	AC 100 - 240V	10.0W	700g

Signal Line voltage and current per LED Module

		LED LED		Alarm		
Model	Rated Voltage	Signal Line Voltage	Signal Lin	e Current	Signal Line	Inrush
		voltage	R, Y	G, B, C		Current
WME-A	AC/DC 24V	AC/DC 24V	35mA	50mA	40mA	250mA
WIVIE-A	AC 100V - 240V	DC 24V	SJIIIA	JUILIA	40111A	ZJUIIA

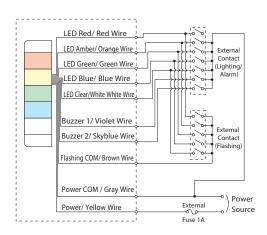
Dimensions (Unit: mm)



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

Wiring

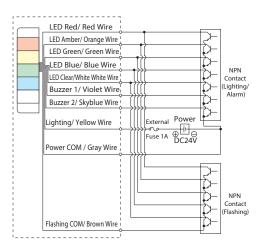
AC/DC 24V Lighting/Flashing Type



DC 24V NPN Type



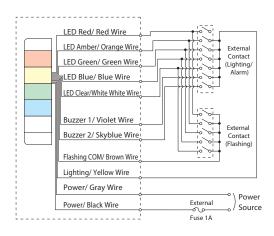
DC 24V NPN FB Type



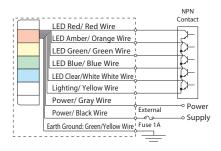
DC 24V PNP Type



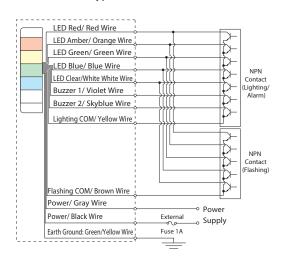
AC Power Lighting/Flashing Type



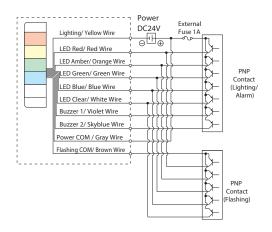
AC Power NPN Type



AC Power NPN FB Type



DC 24V PNP FB Type



WSST

Manual Control Box







Signal Towers, Cables and poles sold separately

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

APPLICATIONS

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

FEATURES

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

How to Order

WSST-KIT

Package Description

KIT: Complete Kit includes

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

CB: Complete Kit (excluding Power Supply)

PS: Power Supply Only

Specifications

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







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

APPLICATIONS

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

FEATURES

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

How to Order

HSST-312

Package Description

312: Complete Kit including

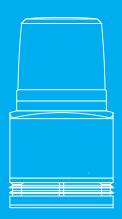
- 3 button Control Box
- Control Box mounting screws
- 3 tiered Signal Tower (Red, Amber, Green)
- AC 120V Power Adaptor
- 4 ft. cable for Signal Tower
- 3 " Pole (80mm)
- 12" Pole (300mm)
- Pole Mounting Brackets
- Instruction Manual

Specifications

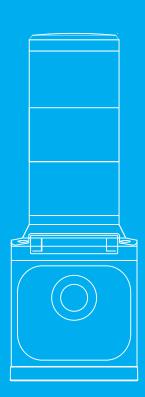
Model	Rated Voltage	Tiers	Power Supply
HSST-312	DC 24V	3 Tiers (R,Y,G)	AC120V / DC24V (Center Negative)



Sensormatic srl - Via della Beverara 13 - 40131 Bologna - Italia Tel. +39 051 6353 511 - Fax +39 051 6345 925 - www.sensormatic.it



Hybrid Products



LKEH









MP3 Voice Annunciator & LED Signal Tower













32 Alarm Sounds

105_{dB at 1m}

IP53

(LED) **410**

Open-collector









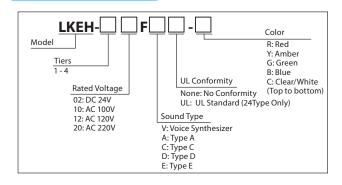
Get the attention you need with the PATLITE field-programmable LKEH Series Hybrid Signal Tower with audible alarm.

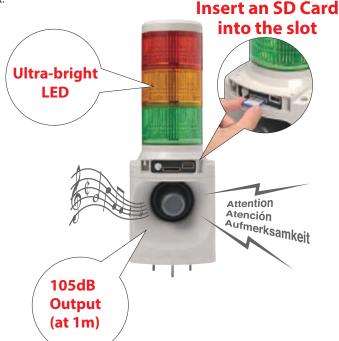
- The pre-recorded type offers 32 sounds in one unit with 8 bit input and 32 binary input channel capability.
- The message capacity for the LKEH-FV is 63 seconds (64kbit/s) with 5 bit input and 31 binary input channel capability.
- The LKEH-FV is field-programmable with an SD Card (sold separately).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

AVAILABLE BY SPECIAL ORDER

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

How to Order





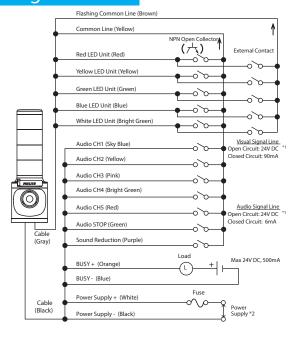
Use of Copyrighted Material

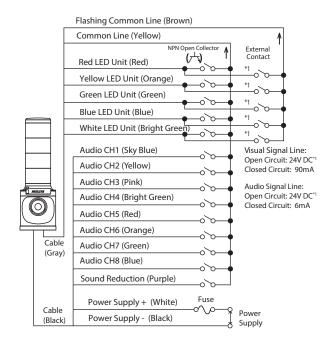
PATLITE Corporation has not applied for permission to use certain copyrighted music or songs recorded for Type-A, Type-C and Type-D melody charts outside of Japan. Therefore, please contact the local copyright association for permission before using the product in case this product is used outside of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

Sound Charts

Refer to Page 201 for "Melody Charts".

Wiring





Options

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



Specifications

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.

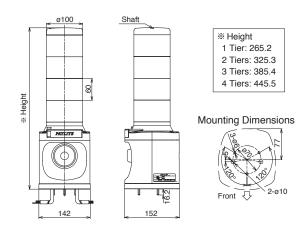
Dimensions (Unit: mm)

PATLITE.

SDV-2GP

MA0000000

Model	Rated Voltage	Operating Voltage Range	Number of Tiers	Power Consumption	Mass
LKEH- 102F	DC 24V	DC 24V ±10%	1	10.6W	1.4kg
LKEH- 202F			2	12.4W	1.6kg
LKEH- 302F			3	14.2W	1.8kg
LKEH- 402F			4	16.0W	2.0kg
LKEH- 110F	AC 100V	AC 100V ±10%	1	17.0W	2.1kg
LKEH- 210F			2	20.0W	2.3kg
LKEH- 310F			3	23.0W	2.5kg
LKEH- 410F			4	26.0W	2.7kg
LKEH- 112F	AC 120V	AC 120V ±10%	1	17.0W	2.1kg
LKEH- 212F			2	20.0W	2.3kg
LKEH- 312F			3	23.0W	2.5kg
LKEH- 412F			4	26.0W	2.7kg
LKEH- 120F	AC 220V	AC 220V ±10%	1	17.0W	2.1kg
LKEH- 220F			2	20.0W	2.3kg
LKEH- 320F			3	23.0W	2.5kg
LKEH- 420F			4	26.0W	2.7kg
Notes:			-	20.000	2.7 Kg



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





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Signal Tower

LA6 Series

Sleek Design. Fully Customizable. Endless Possiblities.





Cycle Time



Level Meter Monitoring



Status Condition



Remote
Monitoring
(for Power over Ethernet)

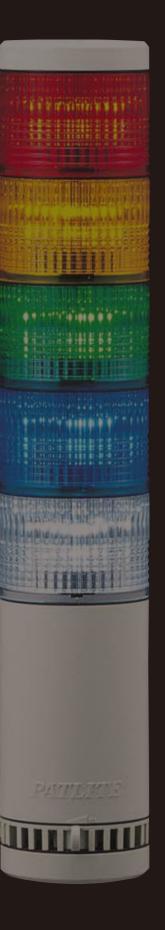


LA6-POE

Ethernet PoE

(Power over Ethernet) for single cable installation

A SIGNAL TOWER DESIGNED TO SHOW MORE SO YOU CAN DO MORE



COMMON ON-SITE OCCURRENCES

OUR PROCESSES HAVE CHANGED.

We now need to reconfigure the color modules on our Signal Towers.

OUR MACHINE LINE IS EXPERIENCING TOO MANY STOPPAGES.

We need to make our workers better aware of machine status, so they can take quicker corrective measures.

WE ARE EXPERIENCING DOWN TIME DUE TO MATERIAL MANAGEMENT.

We need earlier notifications prior to materials completely depleting to avoid delays.

PRODUCTION STOPPAGES ARE OCCURRING AS A RESULT OF UNEVEN WORKFLOW.

Variations in work output is creating bottlenecks that can be smoothed out with a Takt system.

WE NEED TO IMPLEMENT REMOTE MONITORING TO MINIMIZE OUR LABOR COSTS.

We need to monitor the operating status of equipment with long processing time, as well as abnormal stoppages or delays as they occur.

LA6 SOLUTION



The LA6 doesn't require any hardware or wiring changes to reconfigure colors. The LA6 can be easily programmed anywhere without tools.



<mark>Cycle</mark> Time The LA6 is able to create better, more dynamic visual signals to elicit a quicker response by workers.



Level Meter Monitoring

The LA6 can be programmed to act as a visual level meter to help manage materials and material levels.



Status Condition

The LA6 has an internal timer function, allowing you to create visual timers for a streamlined Takt system.



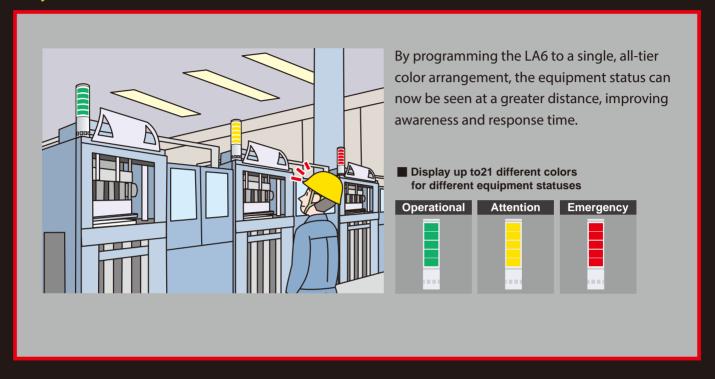
The LA6 is able to send information to other LA6 devices in remote locations via its mirroring function.



ADVANCED OPTIONS TO SOLVE ANY APPLICATION

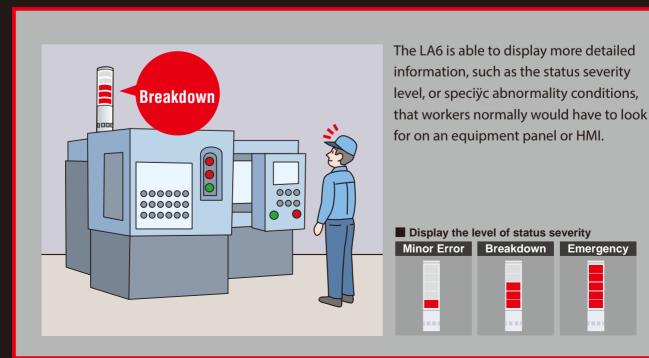


IMPROVE VISIBILITY WITHOUT RECONFIGURING HARDWARE





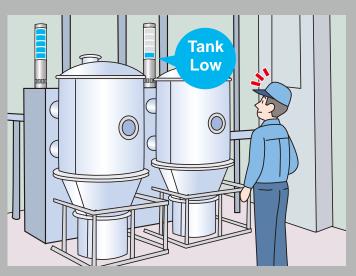
INCREASE EFFICIENCY WITH MORE DYNAMIC VISUAL WARNINGS





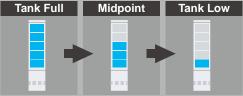
Level Meter Monitoring

REDUCE DOWNTIME WITH LEVEL MONITORING



By displaying current material levels, workers can more accurately respond to changes, reducing downtime. As material levels reach certain thresholds, the LA6 can provide earlier visual and audible notiÿcations.

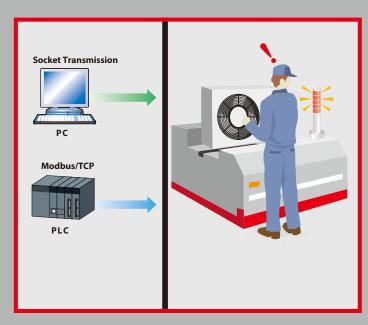
■ Display Remaining tank levels in stages





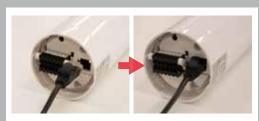
WIRING MADE EASY WITH LAN CONNECTIVITY





The LA6 conveniently integrates into your facilities' existing LAN infrastructure.

By connecting to a PoE (Power over Internet) compliant HUB, the LA6 can be controlled and powered through a single cable.



REDUCE BOTTLENECKS WITH A VISUAL TAKT SYSTEM

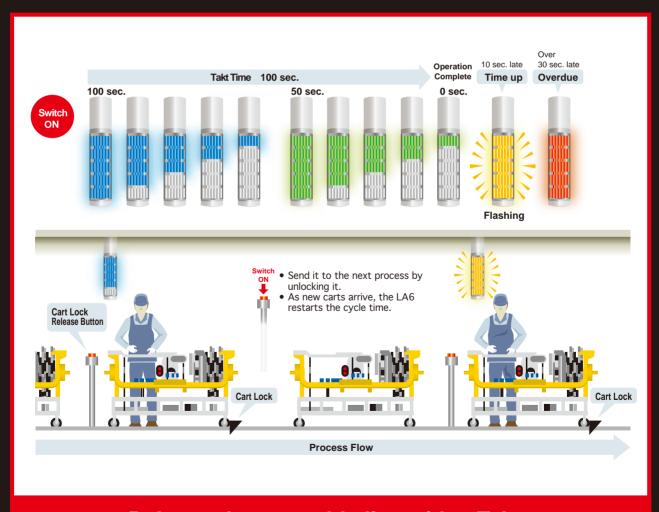


PROBLEM

Idle time or delays on the production assembly line is sometimes caused by variations in the rate of worker output.

IMPLEMENTATION MERIT

With the LA6 visual Takt system, workers will be more aware of the progress of the entire line, minimizing delays, and resulting in a smoother work flow.



Balance the assembly line with a Takt system

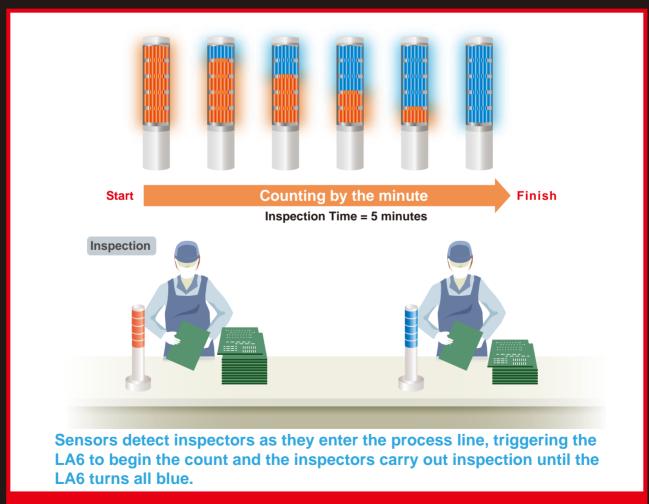


PROBLEM

Due to high volumes of products to inspect, some defective products may be overlooked and pass inspection.

IMPLEMENTATION MERIT

With the LA6 internal timer function, inspectors are allotted proper time for each inspection, resulting in an improved yield rate by accurately detecting inferior goods.



Prevent defective product outflow during inspection

OBTAIN EQUIPMENT INFORMATION FROM REMOTE LOCATIONS

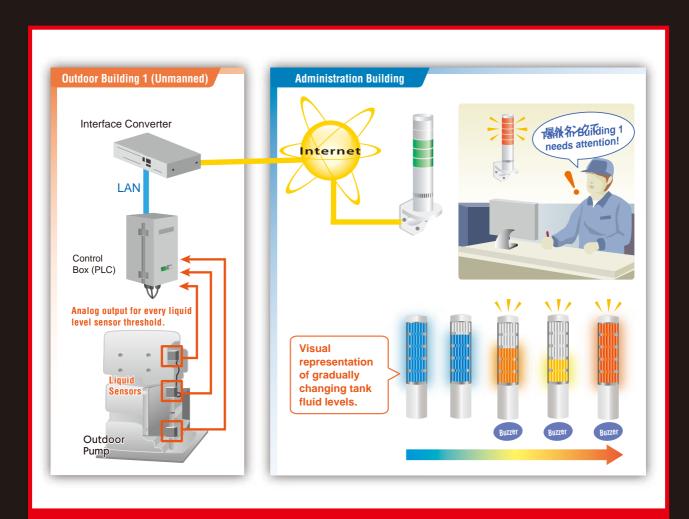


PROBLEM

Tanks located in remote buildings tend to be overlooked until the tanks are completely depleted.

IMPLEMENTATION MERIT

The LA6 can be used as an economical level meter system, capable of alerting remote personnel of equipment changes in real-time.



Quicker response with remote monitoring



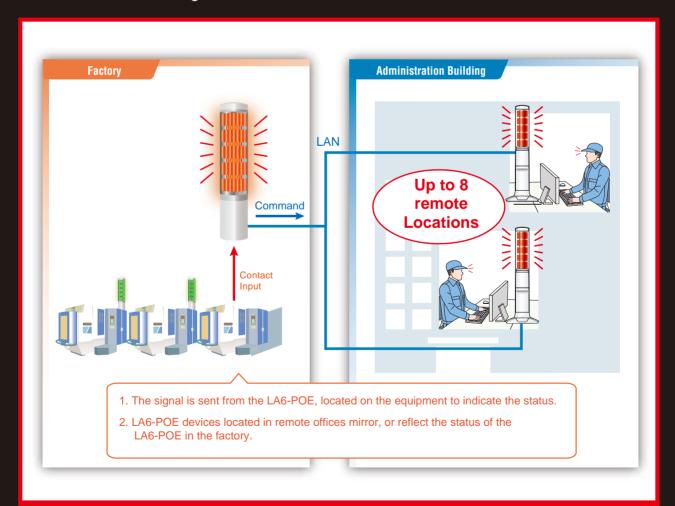


PROBLEM

Managers in remote offices need to monitor machinery statuses on the factory floor in real-time.

IMPLEMENTATION MERIT

With the LA6-POE's built-in mirroring function, equipment status, Takt time, etc., can be communicated to other LA6-POE devices in remote locations via a LAN connection. This data can also be sent to a third-party software through the LAN connection for data analysis or Andon monitoring.



See equipment status from multiple locations

LA6 SIGNAL TOWER





Multi-function Switch for various setups

BUZZER SOUND SETUP

The built-in switch has four selectable settings for "Loud" (about 85dB) ->
"Middle" (about 80dB) -> "Low" (about 75dB) -> "O" ".

COLOR SETUP

The built-in switch can also allow a manual selection of 9 colors to be set for each tier.



A new lens design optimizes visibility.

The newly developed lens design e°cien tly di`uses LED ligh t so that it is unmistakably visible, even from great distances.



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

A newly developed compact loudspeaker not only can transmit a clear sound of 85 dB (at 1m), but also has added water resistance. A di[~] erent alarm sound can be set up with each display pattern when in the Smart mode. (Only three of the 11 alarm patterns are selectable in the Signal Tower mode)



Use the free editing software to freely change the LA6 colors and patterns.

Upload colors and patterns to the signal tower via a USB cable.*

* The USB cable is sold separately (USB microB

capability). type with

Detachable Terminal Block





Has eight inputs available for connecting a PLC, or discrete I/O. Data through these inputs can be transferred to a server over the Ethernet. DC power can also be wired if a Poe supporting LAN is not available. PoE

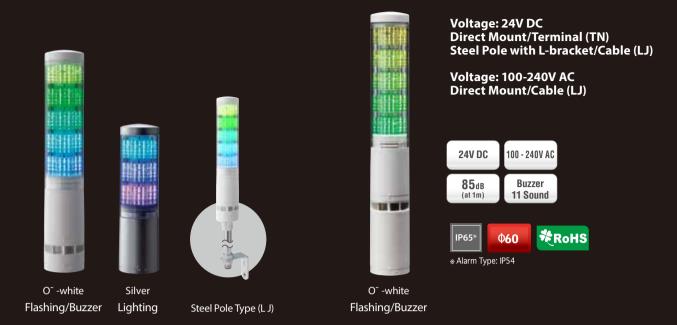
Conveniently connects to an existing network with PoE support.

PoE (Power over Ethernet) is a technology which lets network cables carry electrical power. PoE can bring many advantages, such as reducing costs of installing electrical cabling, by connecting it with a HUB supporting PoE, or have the <code>.e</code> xibility of not having to be tethered to an electical outlet.

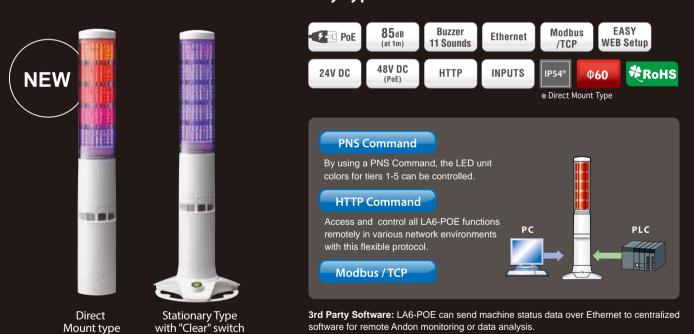
LA6 24V DC / 3 and 5 Tier Types

LA6 100 - 240V AC 5 Tier Types

The LA6 alarm features a total of 11 sounds to match various applications.



LA6-POE Direct Mount / Stationary type

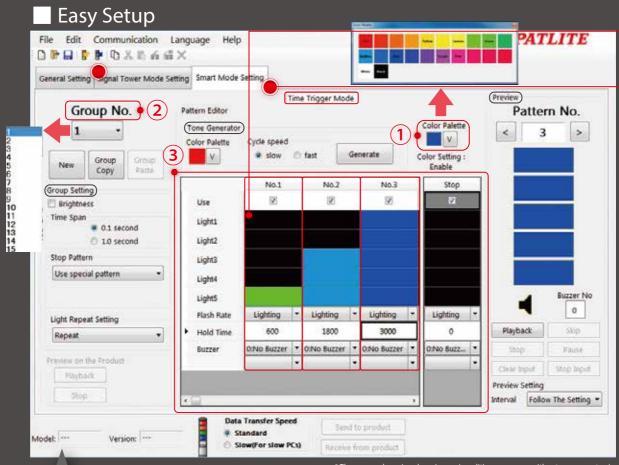


LA6 / LA6-POE Optional Parts





Simple program software! Download and easily set up PATLITE's exclusive editing software.



 $\hbox{* The screen above is only an image (conditions may vary with setup parameters).}$

① Color Setup (Maximum of 21)

21 di⁻⁻ erent colors can be selected as part of a program.

② Signal Tower Setup Features

With a maximum of 15 groups*, 63 series of operations can be registered to perform an operation setup as one group.

* A single display type can register a maximum of 31 groups.

③ Operations (Maximum of 63)

Select the desired color, °ashing period and the active duration of the light and alarm* (maximum of 3,600 seconds, and 11 sounds).

* Limited to Time Trigger and Pulse Trigger modes

Various Setups

- Group setup (Detailed Settings)
 - Flash Reduction Setup
 - Time Span (0.1 sec./1.0 sec.)
 - Repetitive Lighting Setup
- Sign pattern generation (9 colors)
 Generate colors as gradations or chaser lights.
 Color select: Cycle Speed (Low/High)
- Simulation

Check the light pattern by previewing it before transmitting data into the unit.

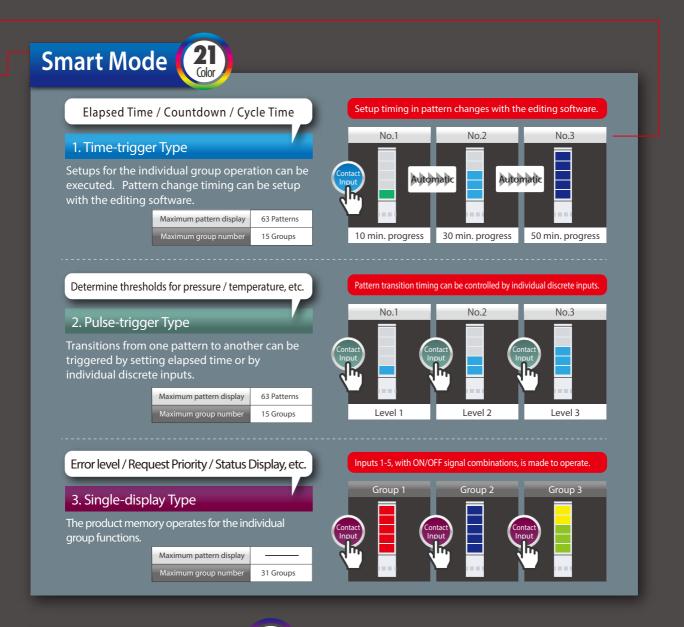
 System Transmit and Receive*
 Data can be written into the unit and also read from it, so that patterns can be easily copied into other units.

* Data transfer is also possible when the main unit is OF and the system's power source is the USB bus power.

http://www.patlite.com
patlite

Search

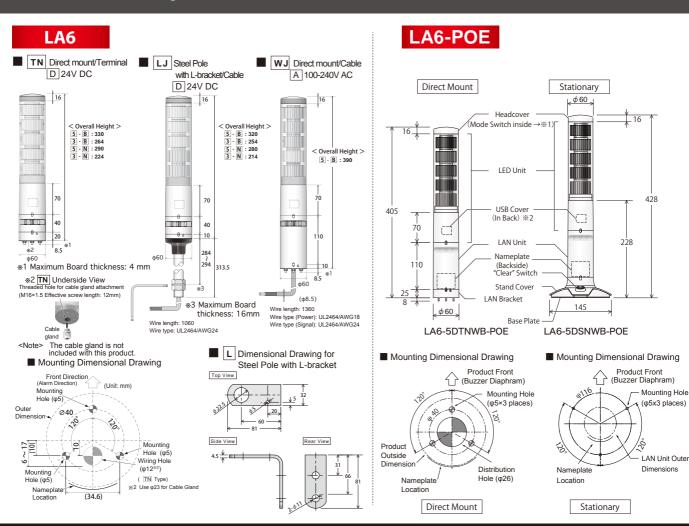
Editing software and pre-set data patterns are downloadable for free from our website.



Colors can be configured manually with the push **Signal Tower Mode** button, without the need to edit the software. 3 4 All tiers begin Push the setup key for Repeat for all tiers about 0.5 second after flashing green. the power source is ON. Ab. 0.5 sec. Ab. 3 sec. Ab. 3 sec. Ab. 0.5 sec Finished!! Continue pushing for **Continue pushing for** about 3 seconds to about 3 seconds to enter start selecting the the selected LED color. desired LED color

DIMENSIONS AND WIRING

Outer Dimensional Drawings

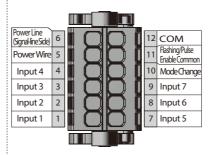


Connector Inputs

LA6 (Terminal Type)



LA6-POE



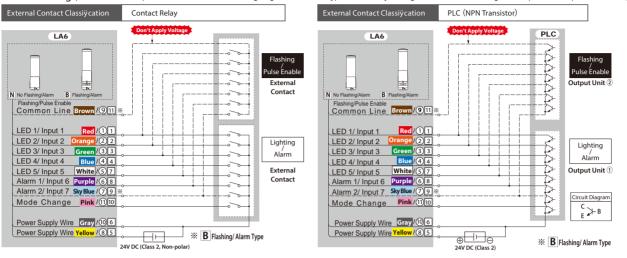
Smart Mode Inputs (for Mode Change)

		①Time-trigger Type	②Pulse-trigger Type	③Single-display Type
Input1	Red			
Input2	Amber	Display Input	Display Input	Display Input
Input3	Green	(Binary Input Maximum 15)	(Binary Input Maximum 15)	(Binary Input Maximum 31)
Input4	Blue			
Input5	White	STOP	Trigger	
Input6	Purple	Mute	Mute	Mute
Input7	Sky Blue	Clear	Clear	Clear
Mode Change Pink			At Input	
		•		

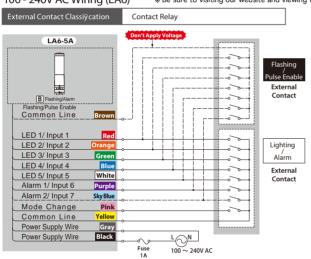
It can be used for the smart mode when a signal is applied to the mode change line.

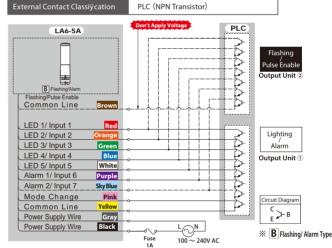
^{*} For connector inputs, mode change is terminal 11 purple; and terminal 10 for the PoE type.

24V DC Wiring (LA6/LA6-POE) *Be sure to check the wiring diagram of the PNP type transistor by visiting our website and viewing the comprehensive operation manual, etc.

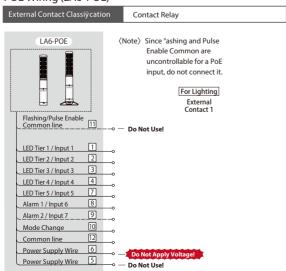


100 - 240V AC Wiring (LA6)
* Be sure to visiting our website and viewing the comprehensive operation manual, etc. for further details.

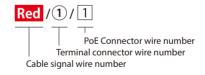




POE Wiring (LA6-POE)



■ Wiring Diagram color and number indication



LAN Cable Connection

MEMO

The LAN cable should be rated for category 5e or higher. A straight or cross cable can be used.

Be sure to use the IEEE802.3af compliant products for the PoE power feeder systems.

- Priority is given to the 24V DC power supply when both the 24V DC power source and PoE power feeder systems are connected simultaneously.
- If both power sources are simultaneously connected, when disconnecting the 24V DC source, this product may reboot.

■ Specifications

Model			LA6-POE				
Rated Voltage		24V DC/100-240V AC (50Hz/60Hz)				24V DC/48V DC (PoE)	
Operating Voltage	e Range	24V DC	±10%/90-	250V AC (50Hz/60Hz)		24V DC±10%/36-57V DC (PoE)	
		LA6-5D□□N-RYGBC	5W	LA6-5D□□B-RYGBC	6.5W		
	Standard	LA6-3D□□N-RYG	3.5W	LA6-3D□□B-RYG	4.5W	7.2W (24V DC)/8.6W (PoE)	
Rated Power		LA6-5AWJWB-RYGBC	6.5W				
Consumption		LA6-5D□□N-YYYYY	7W	LA6-5D□□B-YYYYY	8W		
	Maximum	LA6-3D□□N-YYY	4.5W	LA6-3D□□B-YYY	5.5W	12.9W (26.4V DC)/12.5W (PoE)	
		LA6-5AWJWB-YYYYY	7.5W				
Signal Line Cu	irrent	Max.70mA (at	24V DC)/I	Max.20mA (at AC100-240V)		Max. 420mA (at 26.4V DC)/10mA (for PoE)	
Operating Tempera	ture Range		-25 ℃	to +60°C		-10℃ to +50℃	
Operating Humidi	ity Range	Less than 90% RH, no condensation				Less than 90% RH, no freezing or condensation	
Mounting Dire	ection	Upright/Inverted				Upright	
Protection Ra	nting	IP65 (with Buzzer: IP54) (IEC 60529)				IP54 (Stationary type: IP20) (IEC 60529)	
Environmental Conditions		Tested while mounted in the upright position					
Mounting Location		Indoors Only					
Insulation Resi	stance	More than 1M" a t 500V DC between the power input lead and chassis.					
Withstand Vo	ltage	(500V AC at 24V DC/1500V AC at 100 - 240V AC) for 1 minute between terminals and chassis without breaking insulation.					
Display Color Va	riations	Signal Mode: 9 colors/Smart Mode: 21 colors					
Buzzer Sour	nds	11 Sounds					
Sound Lev	el	Maximum 85dB					
Environmental C	Conditions	Buzzer Sound No.1, in an upright position with a distance from Buzzer opening at 1 meter			with a distance from Buzzer opening at 1meter		
Operation Method Signal Control			Signal/Command Control				
Standard Compliances		UL508, CSA-C22.2 No. 14 KC (KN 61000-6-4, KN 61 100-240V AC EMC Directive (EN 61000	(EN 61000-6-4, EN 61000-6-2), RoHS Directive (EN 50581), 22.2 No. 14, FCC Part 15, Subpart B Class A,			EMC Directive (EN 61000-6-4, EN 61000-6-2, EN55032 Class A, EN 55024, RoHS Directive (EN 50581), FCC Part 15, Subpart B Class A, KC (KN 61000-6-4, KN 61000-6-2), UL 60950-1, CAN/CSA-C22.2 No. UL 60950-1-07, Recognized Component (File No. E480103), *The 24V DC Direct Mount type conforms to the following conformities: UL508, CAN/CSA C22.2 No. 14 Recognized Component (File No. E215660)	

■ Lineup

Model	Tiers	Voltage	Body Color	Туре
LA6-3DTNWB-RYG				Direct Mount/Terminal/Buzzer
LA6-3DTNWN-RYG			Off-white	Direct Mount/Terminal/No Buzzer
LA6-3DWJWB-RYG		24V DC		Direct Mount/Cable/Buzzer
LA6-3DWJWN-RYG				Direct Mount/Cable/No Buzzer
LA6-3DTNUB-RYG	3 Tiers			Direct Mount/Terminal/Buzzer
LA6-3DTNUN-RYG	Jileis		Silver	Direct Mount/Terminal/No Buzzer
LA6-3DWJUB-RYG			Silver	Direct Mount/Cable/Buzzer
LA6-3DWJUN-RYG]			Direct Mount/Cable/No Buzzer
LA6-3DLJWB-RYG			Off-white	L-Bracket with Pole/Cable/Buzzer
LA6-3DLJWN-RYG			On white	L-Bracket with Pole/Cable/No Buzzer

Model	Tiers	Voltage	Body Color	Туре
LA6-5DTNWB-RYGBC				Direct Mount/Cable/Buzzer
LA6-5DTNWN-RYGBC			Off-white	Direct Mount/Cable/No Buzzer
LA6-5DWJWB-RYGBC			Oii-wiiite	Direct Mount/Terminal/Buzzer
LA6-5DWJWN-RYGBC		24V DC		Direct Mount/Terminal/No Buzzer
LA6-5DTNUB-RYGBC			Silver	Direct Mount/Terminal/Buzzer
LA6-5DTNUN-RYGBC				Direct Mount/Terminal/No Buzzer
LA6-5DWJUB-RYGBC	5 Tiers			Direct Mount/Cable/Buzzer
LA6-5DWJUN-RYGBC				Direct Mount/Cable/No Buzzer
LA6-5DLJWB-RYGBC				L-Bracket with Pole/Cable/Buzzer
LA6-5DLJWN-RYGBC				L-Bracket with Pole/Cable/No Buzzer
LA6-5AWJWB-RYGBC		100 - 240V AC	Off-white	Direct Mount/Cable/Buzzer
LA6-5DTNWB-POE		24V DC or		Direct Mount/Terminal/Ethernet/Buzzer
LA6-5DSNWB-POE		PoE (48V DC)		Stationary/Terminal/Ethernet/Buzzer

PATLITE Corporation



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http://www.patlite.com



To ensure correct use of these products, read the "instruction Manual" prior to use. Failure to follow all safeguards can result in fire, electric shock, or other accidents. Specifications are subject to change without notice.



PATLITE ECO PROJECT

For the benefit of mankind and the earth, Patlite is committed to developing environmentally friendly products.





Signal Tower

LR Series

SCHSORMOTIC SPECIALISTA SOLUTIONS

Sensormatic srl - Via della Beverara 13 - 40131 Bologna - Italia Tel. +39 051 6353 511 - Fax +39 051 6345 925 - www.sensormatic.it













Signal Tower

LR Series

Modular LED Signal Tower

φ40mm

φ50mm

φ60mm LR6

φ70mm LR7



Modular Varieties







Buzzer Units











LED Units

Optional Parts



SZW-001W



SZK-002W/U



SZK-003W/U



SZP-001W



SZK-001U



SZP-002U



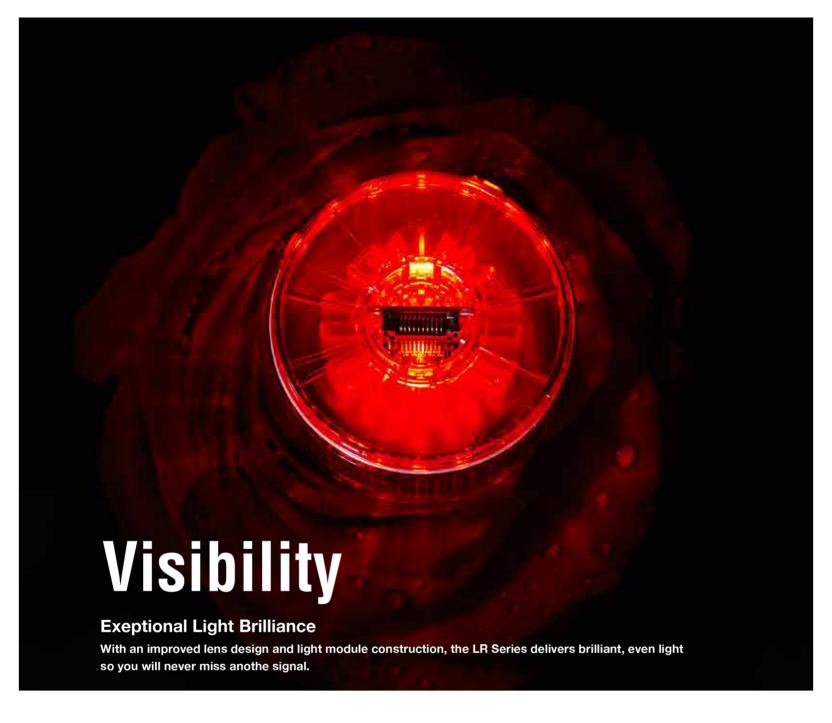




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Configurator

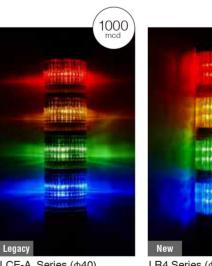
Convert from existing models, available on the website





A uniform 360° Light-emitting Design

A new construction design has shaped the inner lens as a petal, which achieves a fuller 360 degree uniform light emission of the LED center of the light source efficiently and effectively. Light is emitted even more brightly with a former, and more equal emission area, which makes it easier to notice on the spot, even from a distance away.



LCE-A Series (φ40)

LR4 Series (φ40)

2300

2 times more than the older models*

Due to the lens efficiency, lumous intensity doubled. With it's uniform light emittance covering a large area, the light intensity can immediately be seen.

* Based on the φ40 Red LED Model



The first hole-free buzzer in the industry

The sound of a drum was the inspiration for a 360 degree omnidirectional sound pressure resonance, by losing a hole for sound conduction. It also increased the performance of environmental protection from dust, water, and dirt by losing a hole.





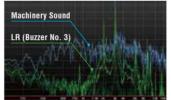
LHE Series (φ70)

LR7 Series (φ70)

Maximum 90dB* output

Although it is a hole-free buzzer, it was able to produce a sound pressure of 90dB. *From another way of thinking, the idea of "losing a hole, gaining sound pressure", it rasis a question of alarm design in the field.

* LR7 Series buzzer No.4 (Sweep)







(Buzzer No.4) Sweep Sound 1000Hz - 4032Hz (changing)

New Buzzer Sound

"It can alert people under various environments"

Two buzzer sounds were added, totalling four buzzer* sounds. To emit sound in a wide range, the varied buzzer sound would be heard above the noise of the surrounding machines. In addition, a sound reduction function of about -10dB was included to suit the on-site environment.

* Four Buzzer Sounds

No.1 Rapid Intermittent sound No.2 Continuous sound No.3 Rapid Hi-low No.4 Sweep sound





Stackable Construction

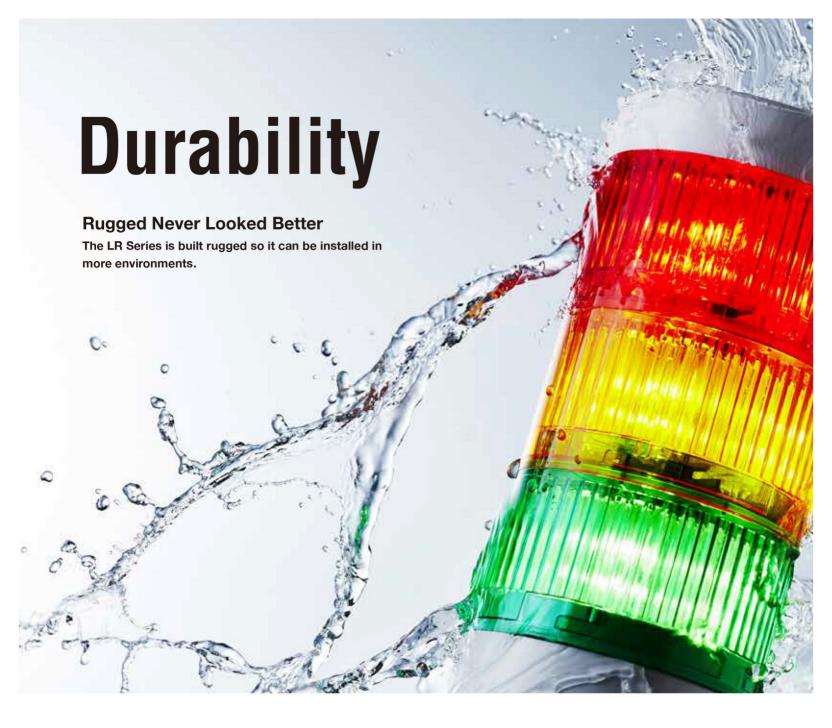
The stackable construction makes color recombination easy with the new construction design. When recombining the LED Unit; by rotating simultanously, it assures the contacts have a more reliable connection, reducing poor connections for electricity to flow.



Ease of increase/decrease, or recombining

Just by turning the LED Unit in one touch, color recombination and increasing or decreasing the number of tiers is easy. With the older models, additional threaded shafts had to be purchased, or a tool was required; Now, with the LR Series, it can reduce labor costs and no tools, etc., are needed. Even the buzzer unit is easily attachable.







Smooth Surface

The lens slit is placed inside, and the buzzer is hole-free, which allows a smooth surface. The adhesion of water and dust is also reduced.



Environmental Performance

IP65 / NEMA TYPE 4X,13 complies to various environments for water-proof and dust-proof performance.



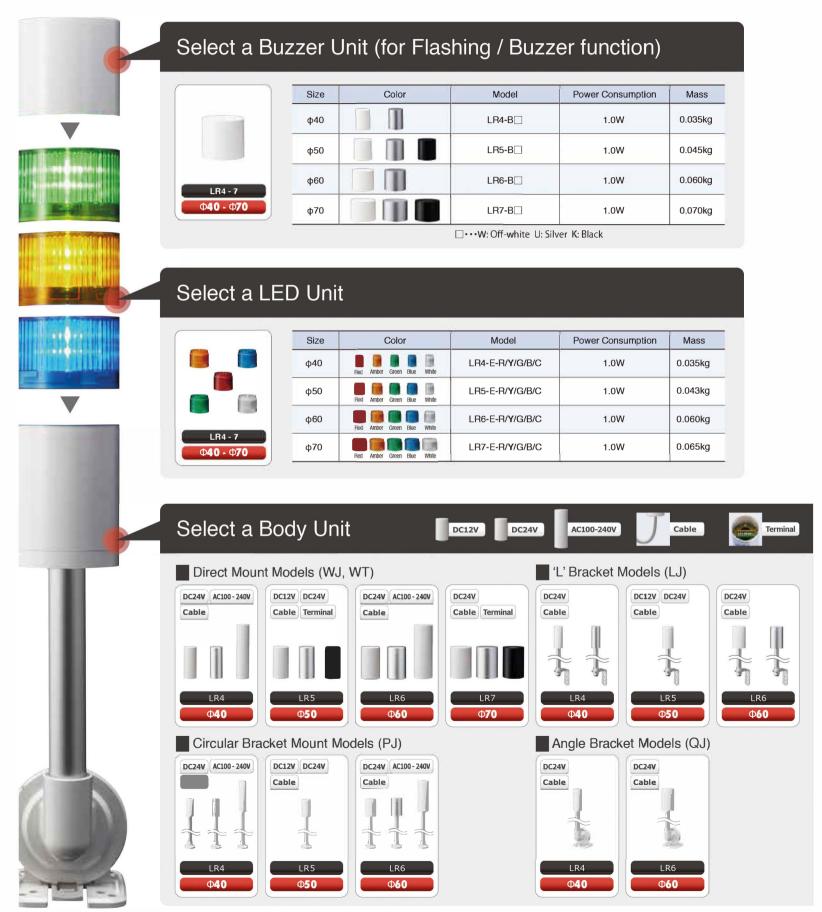
Upgraded Materials

All materials used were reconsidered. From ABS resin, to Polycarbonate (PC), the tradeoff was more lightweight and stronger against shocks. And, the O rings were changed silicone rubber, to enhance.



Signal Tower

LR Series Modular Models



Color Units ordered outside the Standard Stock can be delivered in a short time.





Body Unit Model Code

(Ex.) **LR6-02WJNW** (2) Model ① 3 5 4

(1) Size (2) Rated Voltage 4 = Φ40

01 = DC12V*1

5 = Φ50 02 = DC24V 6 = Ф60 M2 = AC100 - 240V*2

7 = Φ70

(3) Mounting/Wiring

WJ = Direct w/Cable

WT = Direct w/Terminal*3

LJ = Pole/ 'L' Bracket w/Cable®4 PJ = Pole/ Circular Bracket w/Cable®4

QJ = Pole/ Angle Bracket w/Cable*5

(4) Flashing/Buzzer N = No Flashing/Buzzer

(5) Body Color

W = Off-white

U = Silver K = Black™6

*1 For LR5 models only *2 For WJ and PJ mounting with LR4 and LR6 models *3 For LR5, LR7 DC24V models only *4 For LR4, LR5 and LR6 models *5 With LR4 and LR6 DC24V Off-white models only *6 For LR5, LR7 models only

3 Easy Steps











See the Movie!!

Watch the movie to learn how easy it is to assemble!













Mounting Type	Rated Voltage	Size	Wiring	Model
	DC12V	Ф50		LR5-01WJNW
		Ф40		LR4-02WJNW/U
		Ф50	Cable	LR5-02WJNW
Direct	DC24V	Ф60		LR6-02WJNW/U
Mount	DC24 V	Ф70		LR7-02WJNW
		Ф50	Screwless Terminal	LR5-02WTNW/U/K
		Ф70	Sciewiess leitilitai	LR7-02WTNW/U/K
	AC100 - 240V	Ф40	Cable	LR4-M2WJNW
	AC 100 - 240V	Ф60	Cable	LR6-M2WJNW
	DC12V	Ф50		LR5-01PJNW
		Ф40	Cable	LR4-02PJNW/U
Pole Mount w/	DC24V	Ф50		LR5-02PJNW
Circular Bracket		Ф60	Cable	LR6-02PJNW/U
	AC100 - 240V	Ф40		LR4-M2PJNW
	AC 100 - 240V	Ф60		LR6-M2PJNW
	DC12V	Ф50		LR5-01LJNW
Pole Mount w/		Ф40	— Ф40 — — — — Саble Ф50	LR4-02LJNW/U
'L' Bracket	DC24V	Ф50		LR5-02LJNW
		Ф60		LR6-02LJNW/U
Pole Mount w/	DODAY	Ф40	Cable	LR4-02QJNW
Angle Bracket	DC24V	Ф60	Cable	LR6-02QJNW



A new removable terminal For easier wiring.





Outer Dimensional Drawing (Unit_mm)

Mount A [WJ] Direct Mount/Cable (01: DC12V / 02: DC24V)

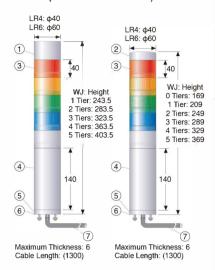
LR4: φ40, LR5: φ50 LR6: φ60, LR7: φ70 LR4: φ40, LR5: φ50 LR6: φ60, LR7: φ70 1 2 (3) 3 40 40 WJ: Height 0 Tiers: 99 1 Tier: 139 WJ: Height 1 Tier: 173.5 2 Tiers: 213.5 3 Tiers: 253.5 4 Tiers: 293.5 5 Tiers: 333.5 4 Tiers: 259 5 Tiers: 299 4 4 70 70 (5) (5) 6 6 Maximum Thickness: 6 Cable Length: (1300) U type: (3300) Maximum Thickness: 6 Cable Length: (1300) U type: (3300)

Cable Length: (1300) U type: (3300) LR5: \$50 LR7: \$770

[WT] Direct Mount/ Screwless Terminal (Body Unit)

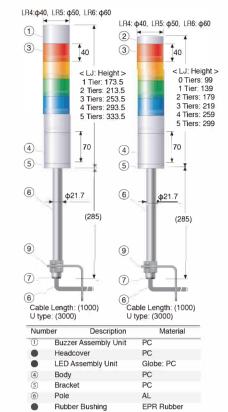


Mount A [WJ] Direct Mount/Cable (M2: AC100V - 240V)

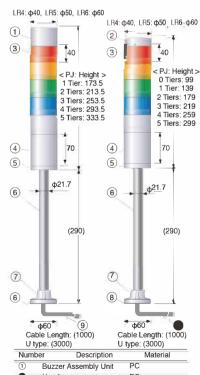


Num	ber Description	Material
1	Buzzer Assembly Unit	PC
	Headcover	PC
	LED Assembly Unit	Globe: PC
4	Body	PC
(5)	Direct-mount Bracket	PC
6	Waterproof Packing	Silicon Rubbe
	Cable	PVC

Mount B [LJ] Pole Mount w/'L' Bracket & Cable (02: DC24V)

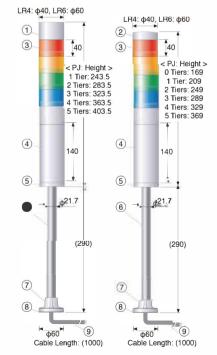


Mount A [PJ] Pole Mount w/Circular Bracket & Cable (01: DC12V / 02: DC24V)



Headcover PC Globe: PC LED Assembly Unit 4 PC Body РС (6) Pole AL Circular Bracket PC 8 Waterproof Packing Silicon Rubber

Mount A [PJ] Pole Mount w/Circular Bracket & Cable (M2: AC100V - 240V)



Num	ber Description	Material
1)	Buzzer Assembly Unit	PC
	Headcover	PC
	LED Assembly Unit	Globe: PC
4	Body	PC
(5)	Bracket	PC
6	Pole	AL
	Circular Bracket	PC
8	Waterproof Packing	Silicon Rubber
(9)	Cable	PVC

Mount C [QJ] Pole Mount w/Angle Bracket & Cable (02: DC24V)

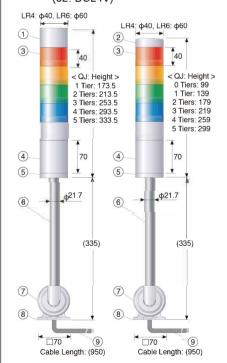
PVC

(8)

(9)

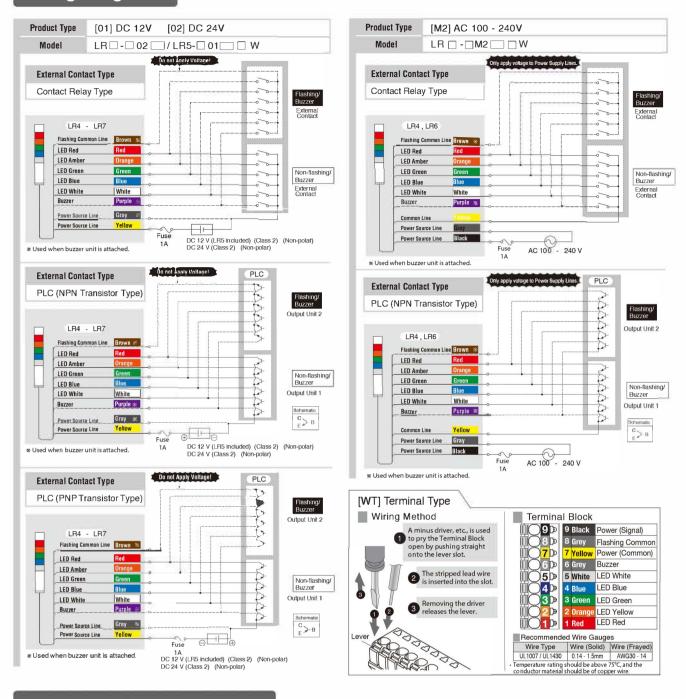
Cable

'L' Angle

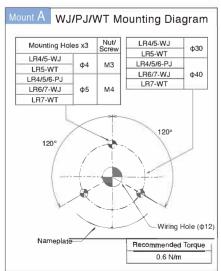


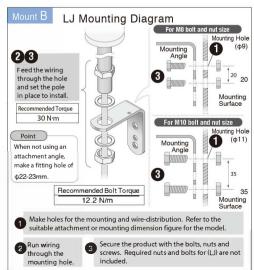
Numbe	er Description	Materia
1)	Buzzer Assembly Unit	PC
•	Headcover	PC
•	LED Assembly Unit	Globe: PC
4	Body	PC
(5)	Pole Bracket	PC
6	Pole	AL
•	Angle Bracket	PC
8	Waterproof Packing	CR
9	Cable	PVC

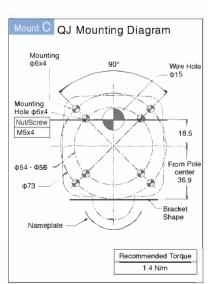
Wiring Diagrams



Mounting Dimensions (Unit: mm)

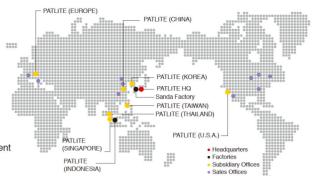






Because we are a global company, we can offer support and stable purchases all over the world.

The LR Series has acquired international standards, such as UL and EN. And, the PATLITE group has built a sales network all over the world, so that the goods and service is optimally sent to every customer in the world, from both factories in Japan and Indonesia.



	LR Series Fully-assembled Product General Specifications				
Operating Ambient Temperature	-20°C - +50°C				
Operating Humidity Range	90% RH or less, no condensation				
Storage Temperature Range	-30°C - +60°C				
Storage Humidity Range	90% RH or less, no condensation				
Mounting Location	Indoor Use				
Mounting Direction	Upright Position				
Protection Rating*1	IP65 (IEC 60529) / NEMA TYPE 4X, 13				
Environmental Conditions	Upright Position				
Insulation Resistance	More than $1M\Omega$ at DC500V between the power input lead and chassis				
Withstand Voltage	AC500V for 1 minute between terminals and chassis without breaking insulation (M2: AC1500V for 1 min.)				
Flash Rate	60 ±2 flashes/ min				
Sound Level	LR4 Typ. 85dB LR5 Typ. 85dB LR6 Typ. 88dB LR7 Typ. 90dB LR5 DC12V Typ. 80dB				
Sound Reduction*2	ab10dB reduction				
Environmental Conditions	Buzzer Sound No.4 (Sweep) from all directions at a 1m distance				
Buzzer Sound	4 patterns*2 No.1 Rapid Intermittent sound No.2 Continuous sound No.3 Rapid Hi-low No.4 Sweep sound				
Transistor Output	NPN / PNP (AC100 - 240V is NPN only)				
Conformities	•UL 508, CSA-C22.2 No.14 •EMC Directive (EN 61000-6-4, EN 61000-6-2) •FCC Part 15 Subpart B Class A •KC (KN 61000-6-4, KN 61000-6-2) •ROHS Directive (EN 50581) •Low-voltage Directive (IEC/EN 60947-5-1, EN62471)*3				

^{*1:} L Type is IP54 *2: Dependent on DIP Switch Settings *3: M2 Type Only

	Externa	al Contact Capacity	Is:Current Capacity Vs:Saturated Vo	oltage IL:Leakage Current Ta:Ambient Temperature	
F	lated Voltage	DC12V	DC24V	AC100 - 240V	
LED Unit	Signal Line Current	90mA	40mA	40mA	
(Per Tier)	Contact Capacity	Is ≧ 100mA Vs ≧ DC35V	Is ≧ 100mA Vs ≧ DC35V	Is ≧ 100mA Vs ≧ DC35V	
Buzzer	Signal Line Current	90mA	40mA	40mA	
	Contact Capacity	Is ≥ 300 mA Vs $\ge DC35V^{*1}$	Is ≥ 300 mA Vs $\ge DC35$ V ^{*1}	Is ≧ 300mA Vs ≧ DC35V	
Dawar	Consumption Current	500mA	250mA	150mA	
Power	Contact Capacity	Is ≧ 700mA Vs ≧ DC35V	Is ≧ 700mA Vs ≧ DC35V	Current rating higher than inrush current	
Inrush Current	Signal Line	None ^{*1}	None*1	None	
	Power Line	0.7A at 15ms or less	0.7A at 0.5ms or less	25A (Ta=25°C), 50A (Ta=50°C) at 2.0ms or less	
Contact Leakage Current			I∟ ≦ 0.1 mA		

^{*1:} An inrush current of 0.7A flows through the signal line when the Gray power source line is disconnected. Be sure to select an external contact which can withstand the capacity. [Recommended Fuse] Rated Current: 250V / 1A 5x20mm Fast-blow Glass Fuse

	LED Unit General Specifications						
Color	Color		Amber	Green	Blue	White	
Rated Voltag	Rated Voltage		DC24V				
Consumption Current/	Тур.	0.04A/ 1W	0.04A/ 1W	0.04A/ 1W	0.04A/ 1W	0.04A/ 1W	
Consumption Power	Max.	0.045A/ 1.3W	0.045A/ 1.3W	0.045A/ 1.3W	0.045A/ 1.3W	0.045A/ 1.3W	
Standards/ Conformities		•UL 508, CSA-C22.2 No.14 •EMC Directive (EN 61000-6-4, EN 61000-6-2) •RoHS Directive (EN 50581)					

Buzzer Unit General Specifications			
Rated Voltag	ge	DC24V	
Consumption Current/	Тур.	0.04A/1W	
Consumption Power	Max.	0.3A/1.3W	
Standards/ Conformities		•UL 508, CSA-C22.2 No.14 •EMC Directive (EN 61000-6-4, EN 61000-6-2) •RoHS Directive (EN 50581)	



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▲ CAUTION

To ensure correct use of these products, read the "instruction Manual" prior to use. Failure to follow all safeguards can result in fire, electric shock, or other accidents. Specifications are subject to change without notice.



PATLITE ECO PROJECT

For the benefit of mankind and the earth, Patlite is committed to developing environmentally friendly products.

O-AF08A	EN	1610 A
U-ALOON	CIN	1010 A