

PATLITE

New Frontiers
for Safety, Security and Comfort.

New Stacking Signal Tower

LU7 series

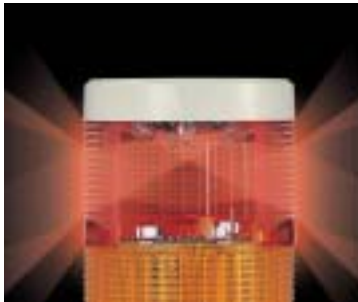


www.patlite.co.jp/int/

PATLITE Corporation

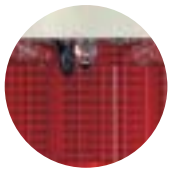
The new LU7 series signal tower available from PATLITE combines their innovative LED technology with modular style assembly. This enables the towers to meet the extensive requirements seen in most status indicating applications. The simple design uses **only 9 modular components** to make a 5 color tower complete with alarm and flashing functions.

70mm



Ultra Bright LEDs

Using the latest and brightest LEDs in the LU7 product range provides intensified illumination of all lens colors. The unique prism design enhances the brightness and ensures outstanding levels of visibility from any direction and distance.



The module, provided as an integrated unit, consists of LEDs and microcomponents mounted on a PC board. This unified assembly provides superior resistance to vibration over socketed LED units seen in the conventional LED stacking signal towers.

Unique Contact (Patent pending)

PATLITE's unique contact design, which is totally unique to the PATLITE LU7, gives a significantly improved life and higher level of reliability, compared to other conventional stacking signal towers. The patented notched contact ensures that the LED module locks firmly together with the opposing vertical contact on the next lens, giving fast and easy assembly. This unique design is robust and reliable, and less prone to failure from machine vibrations.

90dB(Max)
2 Tones



Sound Alarm

An integrated audible alarm is available with the LU7 and offers two user selectable tones. The volume of the alarm can be adjusted manually using the baffle, giving sounds up to 90dB at 1 meter.



Ultra Bright LEDs

Sound Alarm

IP65 Environment Protection



Unique Contact (Patent pending)

Lead Free Solder Design

Wiring Terminals



Lead Free Solder Design

The LU7 has been designed with the environment in mind. Using lead free components, this product complies fully to the EU directive 2002/95/EC, which restricts the use of hazardous substances.



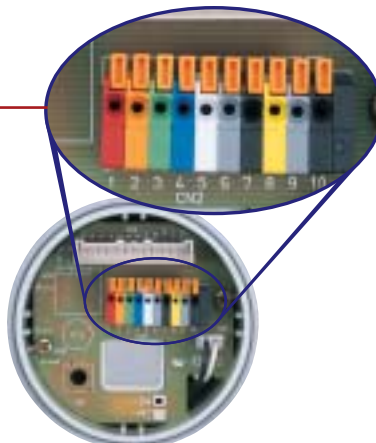
IP65 Environment Protection

An IP65 enclosure rating is offered as standard by means of a high quality O-rings and base gasket. This results in high levels of protection against dust and water.



Wiring Terminals

The wiring terminals are located at the base of the LU7 unit. Each terminal is colored according to the respective lens color, allowing easy identification. Because of the "push-fit" locking terminals, the wiring connection is simple and easy, and does not need any special tools.



Reduced stocking

PATLITE's unique modular design concept significantly reduces the number of different modules required and therefore helps with excessive stock and replacement parts. Each lens is common across the range, regardless of supply voltage, buzzer function and flashing operation. The range consists of a total of 5 lens colors and 4 base units, allowing easy stock management and offers full flexibility to build any configuration.



Only 9 modular components



LED Units



Model	LU7-E-R	LU7-E-Y	LU7-E-G	LU7-E-B	LU7-E-C
Unit color	LED unit RED	LED unit AMBER	LED unit GREEN	LED unit BLUE	LED unit CLEAR/WHITE
Rated voltage	24V DC				
Operating voltage	Rated voltage $\pm 10\%$ (21.6 ~ 26.4V)				
Current/Power	52mA/1.25W		42mA/1.0W		
Operating temperature range	- 30 ~ + 60				
Mass	60g $\pm 10\%$				

Operates with all voltage base units LU7-02, LU7-02FB, LU7-M2 and LU7-M2FB listed below.

Base Units

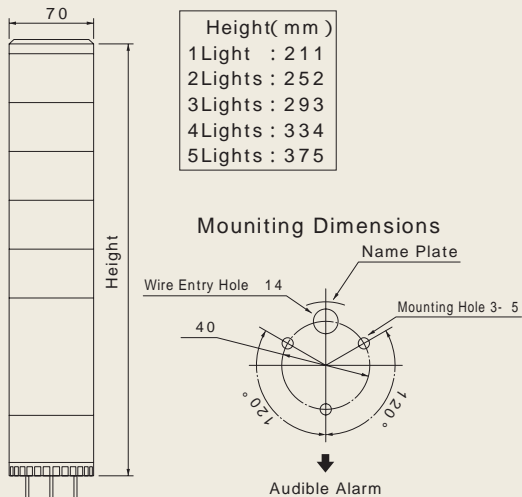
Model	LU7-02	LU7-02FB	LU7-M2	LU7-M2FB
Rated voltage	24V DC		90 ~ 250V AC(50/60Hz)	
Operating voltage	Rated voltage $\pm 10\%$ (21.6 ~ 26.4V)		90 ~ 250V AC(50/60Hz)	
Buzzer	—	*Buzzer1 **Buzzer2	—	*Buzzer1 **Buzzer2
Current consumption	—	50 \pm 10mA ; 24 \pm 10mA	—	50 \pm 10mA ; 24 \pm 10mA
Power consumption	—	1.2 \pm 0.25W ; 0.58 \pm 0.25W	—	1.8 \pm 0.25W ; 1.3 \pm 0.25W
Sound level	—	Max: 90 \pm 5dB(at 1m) Min: 70dB or Less (at 1m)	—	Max: 90 \pm 5dB(at 1m) Min: 70dB or less(at 1m)
Flashing cycle	—	60 \pm 12 flashes per minute	—	60 \pm 12 flashes per minute
Operating temperature range	- 30 ~ + 60		- 25 ~ + 60	
Mounting direction	Upright, indoor only		Upright, indoor only	
Protection rating	IP65		IP65	
Mass	250g $\pm 10\%$	280g $\pm 10\%$	310g $\pm 10\%$	340g $\pm 10\%$
Open Collector	PNP/NPN		NPN	

*Buzzer1:Continuous sound

**Buzzer2:Intermittent sound



Dimensions



Wiring example for Base unit

LU7-02FB

24V DC
[CN2]

No.1	Red	LED unit Red
No.2	Orange	LED unit Amber
No.3	Green	LED unit Green
No.4	Blue	LED unit Blue
No.5	White	LED unit Clear/White
No.6	Gray	Buzzer 1
No.7	Black	Buzzer 2
No.8	Yellow	COM
No.9	Gray	Flashing COM
No.10	Black	Power supply for flashing

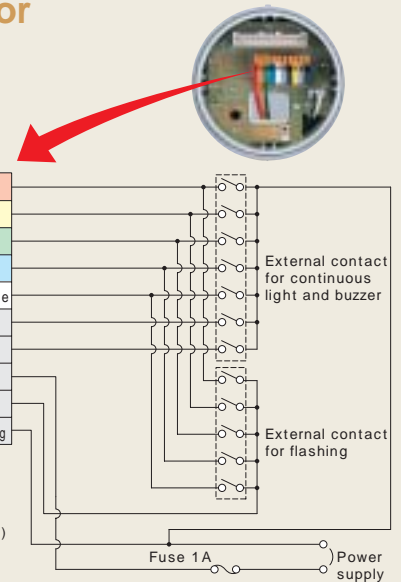
<Recommended electric wire>

Solid wire :

0.8- 1.2mm²

Stranded wire :

0.3-1.25mm²(AWG 22-18)



【 External contact capacity 】

Voltage specs		24V DC	90 ~ 250V AC
LED unit [1-Light]	Current consumption	Red·Amber : 52mA	Green·Blue·Clear/White : 42mA
	Contact capacity	Is 100mA, Vs 35V AC	
Buzzer	Current consumption	50mA	
	Inrush current	100mA	
	Contact capacity	Is 100mA, Vs 35V AC	
Power supply	Current consumption	360mA	40mA(250V) ~ 110mA(90V)
	Contact capacity	Is 500mA Vs 35V AC	9A(90V) ~ 25A(250V) Vs 250V AC

Is : Current capacity

Vs : Withstand voltage

【 External contact fuse 】

Voltage	Ampere rating of fuse
All model	250V 1A

Use a fuse conforming to the rated current of the machine which you install product.

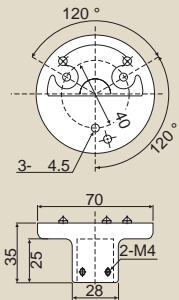
(Example: UL class J type fuse)

Modules

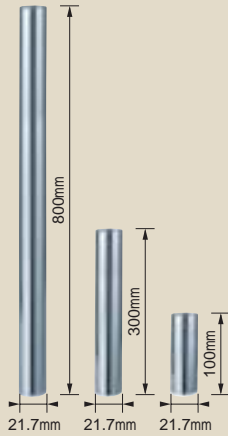
Upper Bracket

SZ-50-U

Indispensable for pole mounting



Steel Pole

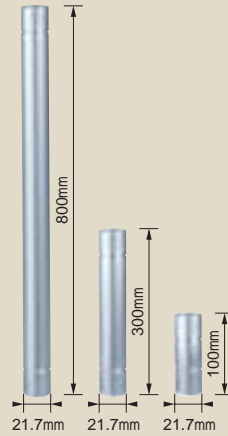


800mm : **POLE-800S21**

300mm : **POLE-300S21**

100mm : **POLE-100S21**

Aluminum Pole



800mm : **POLE-800A21**

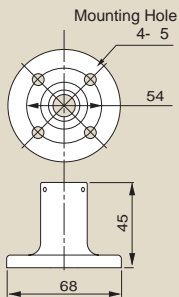
300mm : **POLE-300A21**

100mm : **POLE-100A21**

Mounting Bracket

SZ-016

(For 21.7mm pole)



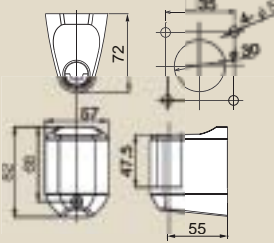
Wall Mounting Bracket

SZ-020

(For 21.7mm pole)

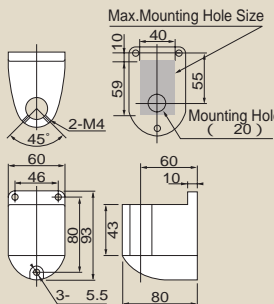


Mounting Dimensions



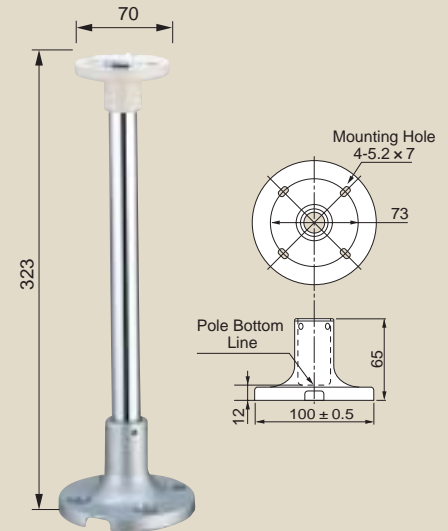
SZ-017

(For 21.7mm pole)

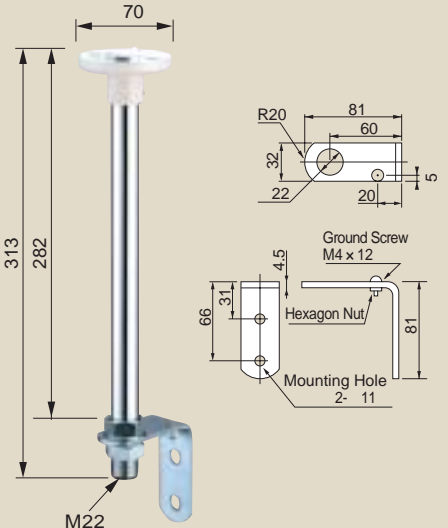


Pre-assembled

SZ-50T



SZ-50L



Modules	
Model	Material
SZ-50-U	ADC12
POLE- S21	Steel
POLE- A21	Aluminum
SZ-016	ADC12

ADC12...Almium alloy die-cast

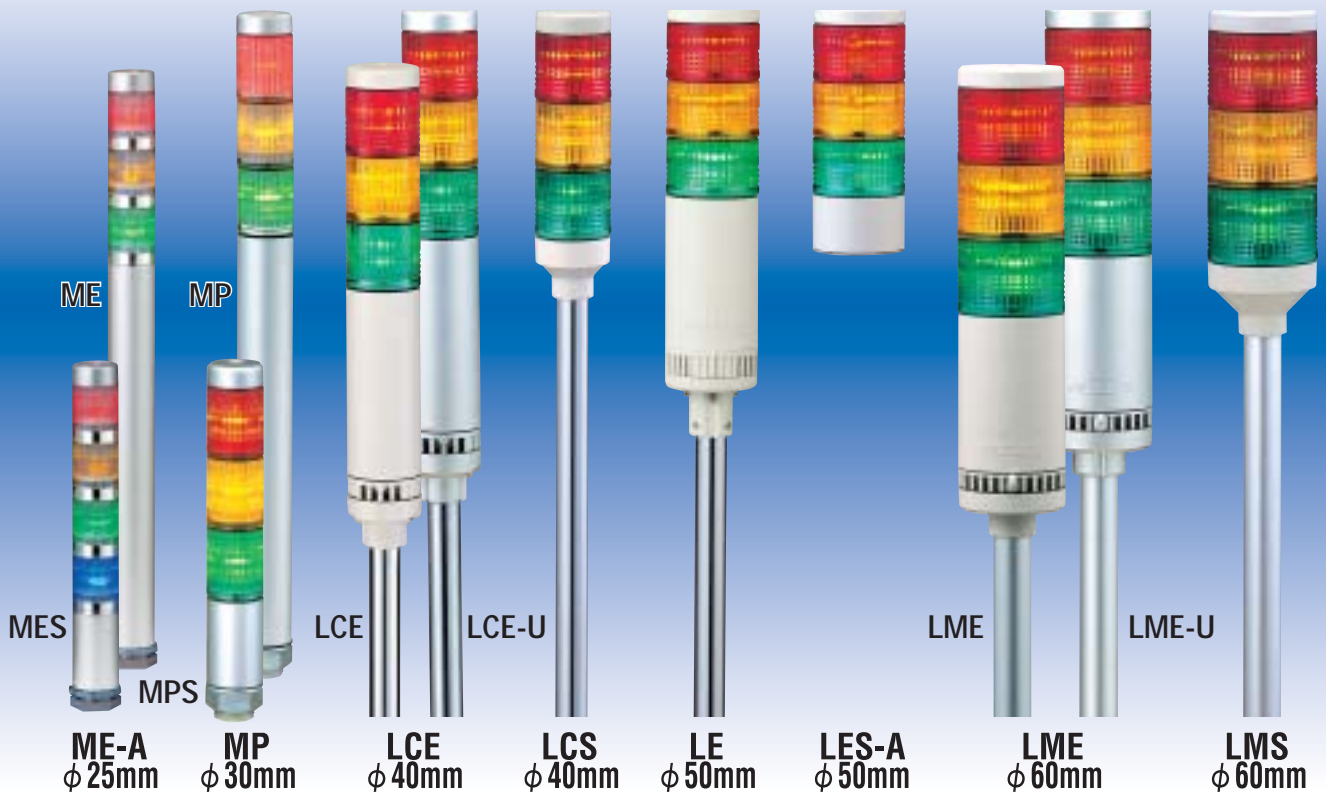
Modules	
Model	Material
SZ-70-B	ABS resin
SZ-017	ADC12
SZ-020	ABS resin

SPHC...Hot rolled mild (sheet) steel

EPT...Ethylene propylen rubber

Pre-assembled					
Model	Material				
	Upper Bracket	Pole	L Braket	Bushing	Mounting Bracket
SZ-50T	ADC12	Steel	-	-	ADC12
SZ-50L	ADC12	Steel	SPHC	EPT	-

Extensive LED Signal Tower Range



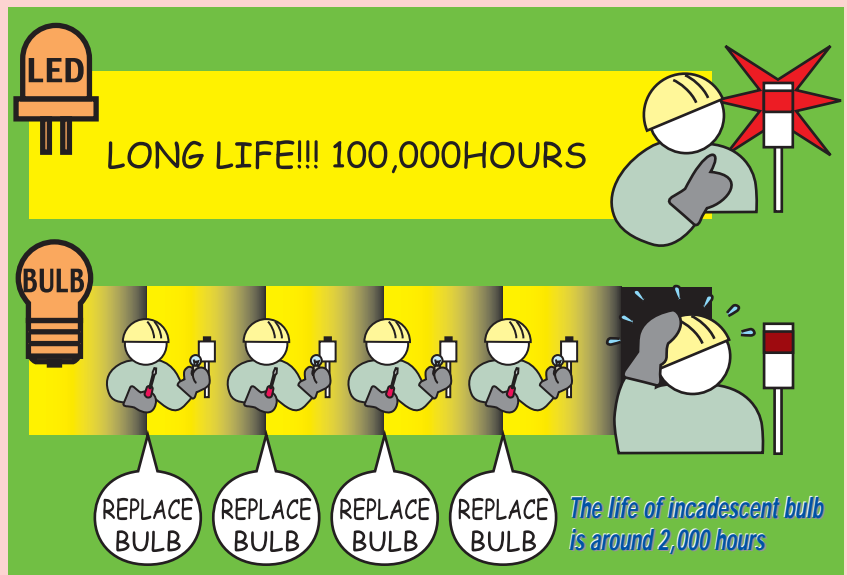
PATLITE's LED

Long-service Life and Reliability

PATLITE's high intensity LEDs offer an extended long-service life of 100,000 hours, that is over 11 years with continuous operation.

Reduced Maintenance and Labor Saving

PATLITE's high intensity LEDs drastically reduce costly maintenance requirements for replacing bulbs. The life of PATLITE high intensity LEDs' is over 50 times longer than conventional incandescent bulbs.



PATLITE offers the extensive range of signal towers from the ultra-slim 25mm diameter to the large 100mm diameter and half-moon stylish wall mountable towers. These signal towers are pre-assembled and pre-wired. However they can be flexibly configured with the interchangeable modular components to meet specific requirements. PATLITE's world class quality LED signal towers are ideal solutions for broad signalling applications.



LHE-A
φ 70mm

LGE
φ 100mm

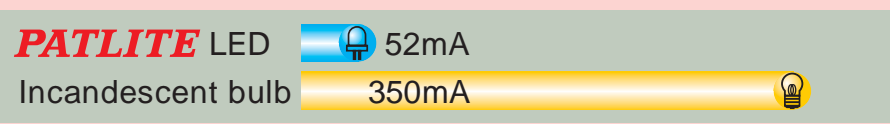
LGEH
φ 100mm

WE/WEP
37.5x90mm

WME-A
70x80mm

Low Power Consumption

PATLITE's high intensity LEDs are about 7 times more efficient than conventional incandescent bulbs.



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

Quality Control

PATLITE is committed to maintaining and improving the highest levels of quality of our products. This is done by following a strict quality control program, including material procurement, processing, manufacturing, assembly and final inspection. All moulding design, construction and finishing are done in-house by experienced and qualified engineers.

Quality is PATLITE's main priority.



SANDA Plant (Japan)

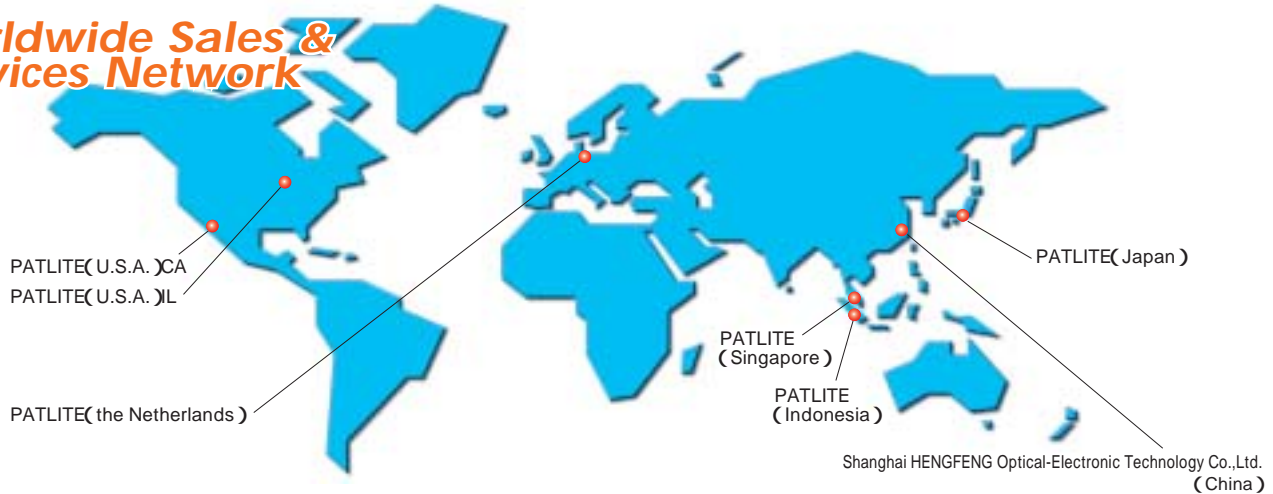
PATLITE Company Profile

Since 1947 PATLITE has been at the forefront in developing and enhancing signalling products. PATLITE's extensive product range covers signal towers, acoustic alarms and hybrid sensing and warning devices for factory automation and security applications. Each product is designed with quality and reliability in mind. PATLITE is listed on the Tokyo and Osaka stock market and has a turnover of over \$100 million. With a worldwide sales and service network, representation and support are always close at hand.



SANDA Plant (Japan)

Worldwide Sales & Services Network



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Head office/Sanda Plant/Techno Center

ISO9001 Certified



PT. PATLITE INDONESIA



PATLITE ECO PROJECT

For the benefit of mankind and the earth. PATLITE is committed to developing environmentally responsible products.



Specifications are subject to change without notice.
Please read operation manual carefully for proper and safe operation.



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