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SPECIFICATIONS

Product Name: Signal Tower

Model: LA6-5DTNWB-POE

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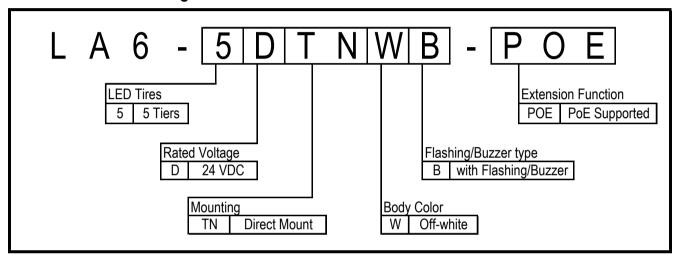
1. General Specifications

	Model		LA6-5DTNWB-POE		
Rated Voltage			24 VDC		
Power Over Ethernet (PoE)		nernet (PoE)	48 VDC		
Operating Voltage Range		Range	Rated Voltage ±10%		
Power Over Ethernet (PoE)			36 to 57 VDC		
\ /		Typ.	0.30 A (24 VDC supply): 0.18 A (PoE: 48 VDC supply) *1		
Consumpt	ion	Max.	0.49 A (26.4 VDC supply): 0.26 A (PoE: 48 VDC supply) *1		
Rated Pov	ver	Тур.	7.2 W (24 VDC supply): 8.6 W (PoE: 48 VDC supply) *1		
Consumpt	ion	Max.	12.9 W (26.4 VDC supply): 12.5 W (PoE: 48 VDC supply) *1		
Signal \	Nire Cur	rent	420 mA *1 / 70 mA *2 (26.4 VDC supply): 10 mA (PoE: 48 VDC supply) *1		
Operating Am			-10°C to +50°C		
Operating A			Less than 90% RH (No condensation)		
Storage Amb			-10°C to +50°C		
Storage A			Less than 90% RH (No condensation)		
	ing Loca		Indoors		
	ng Direc		Upright		
	ction Rat		IP54 (IEC 60529)		
		I Condition	Upright		
	n Resist		10 m/s² (JIS C 60068-2-6)		
Environmental Condition			Upright		
Insulatio	n Resis	tance	More than 1 $M\Omega$ at 500 VDC between live part and non-current carrying metallic part.		
Withst	and Volt	age	500 VAC applied for 1min between live part and non-current carrying metallic part		
		•	without breaking insulation.		
Mass (To			630 g		
	Dimensi	ons	Refer to the Outer Dimensions Drawing		
	D Tiers		5		
Sound P	ressure	Level	85 dB or more		
Enviro	nvironmental Condition		Maximum volume, Buzzer Sound No.1 measured from the front direction of		
			the buzzer aperture at 1 m.		
	Powe	er/Contact	Screwless Terminal Block (Number of Contacts : 12)		
Interface		Input	Power: 2 (24 VDC), Contact Input (External relay/NPN/PNP): 8		
monaco		•	Flashing/Pulse Enable: 1, COM: 1		
		USB	USB micro-B Terminal USB2.0		
Commun	ication N	/lethod	Ethernet (IEEE802.3 Conformity)		
Oomman			10BASE-T/100BASE-TX (Auto-MDI/MDIX)		
		LAN	RJ-45 Connector		
	PoE		Correspondence to IEEE802.3af Class 0 Conformity		
Operation Interface		face	Multi-function Button (Set in Head Cover)		
Indicator			Nothing		
Accessory			Hexagon Nut with Flange (M4 SUS) 3 pcs, Screw (M4×20) 3 pcs		
Ontional Barts		to	Installation Bracket (SZW-060W), Wall mount Bracket (SZK-003W),		
Optional Parts		13	Upper Bracket (SZP-004□)		
Connecta	able LAN	l cable	Category 5e or higher (Both straight cable and cross cable types can be used)		
			*1 Environmental Condition: Lighting all tiers Yellow,		
R	emarks		sounding Buzzer sound No.1 at maximum volume.		
			*2 Environmental Condition: Only lighting tier 1 yellow with no sound.		

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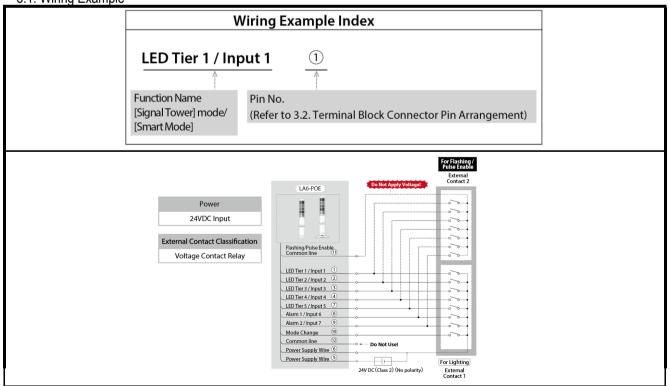
	-
	RoHS Directive (EN IEC 63000)
	EMC Directive (EN 61000-6-4, EN 61000-6-2, EN55032 ClassA, EN55024)
	FCC Part 15 Subpart B Class A, ICES-003 Class A
O and a was the Ottom does do	KC (KN 61000-6-4, KN 61000-6-2)
Conformity Standards	UL 508, CSA-C22.2 No.14, Recognized Component (File No.E215660)
	*Only for 24 VDC
	UL 60950-1, CAN/CSA C22.2 No. UL60950-1-07 Recognized Component
	(File No.E480103)
Remarks	CE Marking Compliant

2. Model Number Configuration



3. Wiring Diagram

3.1. Wiring Example



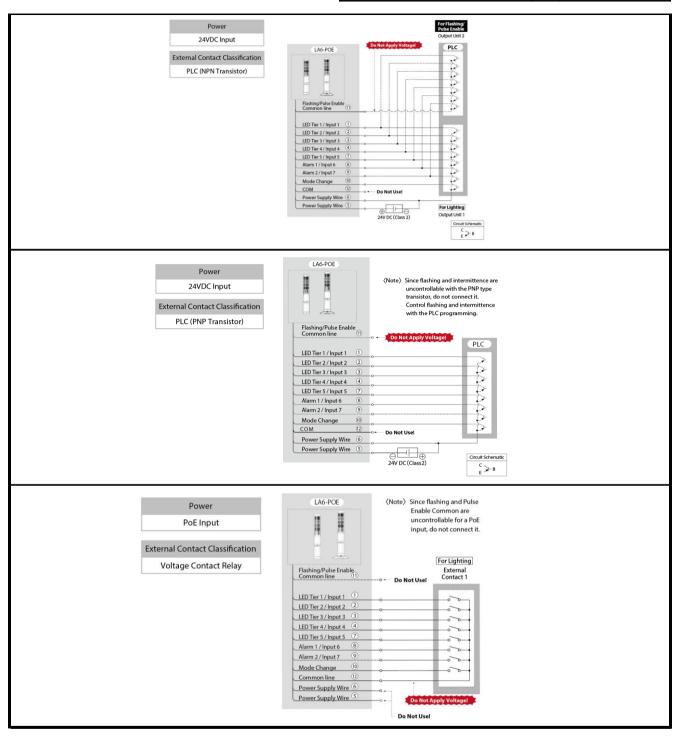
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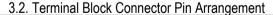
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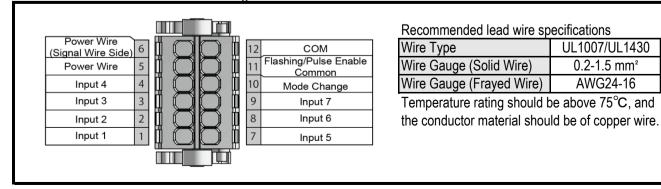
UL1007/UL1430

0.2-1.5 mm²

AWG24-16







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4. Operating Specification

4.1.Annunciator Specification

Sign	al To	wer Mode	Signal Tower LED and buzzer can be controlled with registered color and sound.		
		LED Unit Control	Each tier can be controlled with Continuous Lighting, Flashing, Lights-off		
	Display Color Variations		9 Colors		
		Buzzer Sound	Select one from buzzer sounds No. 1, No. 2 and from No. 3 to No. 11		
Sma	rt Mo	ode	Information such as "Takt time" and "Time count" can be notified.		
		Smart Mode types	"Single-display Type", "Time-trigger Type" and "Pulse-trigger Type"		
		Single-display Type	The registered pattern can be executed.		
		Time-trigger Type	The pattern transitions can be controlled in accordance to time.		
		Pulse-trigger Type	The pattern transitions can be controlled in accordance to a pulse-trigger input.		
	Display Color Variations		21 Colors		
	Buzzer Sound		11 Patterns		
Deta	Detailed Command Control		Control by using commands to specify display color and buzzer pattern for each stage		
		LED Control	Continuous Lighting, Flashing, Lights-off can be controlled for each Tier.		
	D	isplay Color Variations	9 Colors		
		Buzzer Sound	11 Patterns		

4.2. Signal Tower Specification

Flashing Rate	30±2 Flashes per Minute, 60±2 Flashes per Minute, 120±2 Flashes per Minute	
Luminous Intensity (typ) *1	Red (1,000 mcd), Yellow (1,700 mcd), Green (2,600 mcd), Blue (1,000 mcd),	
	White (1,250 mcd), Purple (800 mcd), Pink (850 mcd),	
	Lemon yellow (2,150 mcd), Sky-blue (2,150 mcd)	
Remarks	*1 Due to the characteristics of the LED elements, a variation in difference of	
	the color tone and brightness of every product may occur.	

4.3. Buzzer Specification

T.O. Duzzer Opecification	
Buzzer Sound (Typical Frequency)	11 Patterns
No.1	2400 Hz Continuous beep sound
No.2	2400 Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silence)
No.3	2400 Hz Long intermittent beep (1.5 sec. sound / 1.5 sec. silence)
No.4	2400 Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silence)
No.5	3600 Hz Continuous beep Sound
No.6	3600 Hz Rapid intermittent beep (0.05 sec. sound / 0.05 sec. silence)
No.7	3600 Hz Long intermittent beep (1.5 sec. sound / 1.5 sec. silence)
No.8	3600 Hz Fast intermittent beep (0.5 sec. sound / 0.5 sec. silence)
No.9	2400 Hz & 3375 Hz Multiplexed Beep (0.25 sec. / 0.25 sec.)
No.10	2400 Hz & 3600 Hz Multiplexed Beep (0.25 sec. / 0.25 sec.)
No.11	4000 Hz & 4800 Hz Multiplexed Beep (0.25 sec. / 0.25 sec.)

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4.4 Contact Input Specifications

Mute	Silence the buzzer sound while the smart mode is executed.		
STOP	Temporarily pause pattern transition while executing the Time-trigger in Smart Mode *1		
	Display a dedicated pattern while executing the Time-trigger in Smart Mode *1		
Clear	Stop execution of the patterns in the Smart Mode and resume from the first pattern. *2		
	Turn off the Signal Tower and stop the Buzzer. *3		
Pulse Trigger	Execute transition of patterns in Smart Mode.		
Remarks	*1 Select any of them.		
	*2 Executable only when controlling signal wires.		
	*3 Executable only by controlling from commands.		

5.Function Specifications

5.1 Main Unit Control Function

Signal Wire Control		Controllable in the Signal Tower Mode or Smart Mode			
Command Control		Select from Modbus/TCP, HTTP, Socket Communication.			
	Modbus/TCP	Controllable with Modbus/TCP.			
	HTTP Command	Controllable with HTTP Command.			
	Socket Communication	Controllable with PNS Command/PHN Command.			
Contact Input		Mute, STOP, Clear, Pulse Trigger can be controlled.			

	Controllable Action						
Command	Signal Tower	Smart	Detailed	Clear	Mute	STOP	Pulse
Command	Mode	Mode	Command Control	Clear Wille	Mute	3101	Input
Signal Wire Control	✓ *1	V	-	V	V	✓	V
Modbus/TCP	'	V	✓	/	'	✓	/
HTTP Command	'	V	✓	V	'	✓	'
PNS Command	'	V	✓	V	✓	✓	✓
PHN Command	✓ *2	-	-	-	-	-	-
Contact Input	-	-	-	V	'	V	/

^{*1} Can sound three buzzer patterns.

5.2 Main Unit Status Acquisition Function

Current status of Signal Tower, Buzzer, Contact Input can be acquired.				
Current status of Signal Tower, Buzzer, Contact Input				
by PNS Command/PHN Command can be acquired.				
Current status of Signal Tower, Buzzer, Contact Input				
and Firmware Version can be acquired by HTTP Command.				

	Acquisition data						
Command	LED Unit	Buzzer	Smart	Contact Color		MAC Address	Firmware
Command	LED UIII	Duzzei	Mode	Input	Information	MAC Address	Version
Modbus/TCP	/	/	V	/	✓	-	-
PNS Command	/	/	V	/	✓ *3	'	-
PHN Command	✓ *1	✓ *2	-	-	-	-	-
HTTP Command	/	/	V	/	>	'	✓ *4

^{*1} Tier 1 to Tier 3 Lighting, Flashing, Lights-off status can be acquired.

^{*2} Control Flashing and lighting for Tier 1 to Tier 3; Control Buzzer pattern sound No. 1 and No. 2.

^{*2} Buzzer pattern No.1 and No.2 can be acquired.

^{*3} RGB color code can be acquired.

^{*4} LED Unit Firmware Version and LAN Unit Firmware Version can be acquired.

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5.3 Status Transmission Function

Transmit the present status of the Signal Tower from the controlled signal wire.			
1			
Socket Communication			
Details			
Continuous Lighting, Flashing, Lights-off			
Group Number, Mute Input, STOP Input, Pattern Number			
MAC address of this product, LED Unit color information, Last pattern received			

5.4 Link Function

Mirroring	Can transmit status data of a Master LA6-POE to other LA6-POE and control				
	that same status.				
Number of registrable destinations	8				

5.5 Main Unit Setting Function

Automatic Network Setting	Network setting in this product can communicate with				
	a DHCP server to be set automatically.				
LED Color Setting	The LED color of the Signal Tower can be changed by the signal wire				
_	by setting it with the web browser or Multi-function Button.				
Volume Control	The Buzzer Volume can be set with the web browser or Multi-function Button.				
Main Unit Setting	Various settings to the Main Unit can be accessed by the web browser.				
Configuration Setting	Various configurations of the Main Unit can be read and written as setting files.				
Supported Setting Languages	Japanese, English				
Supported Application	EDITOR for LA series				
	LA6-POE Configurator software.				
	*Visit our company's home page and download the latest application software for free.				

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[Handling Precaution]

◆About the handling of this product

- This product (including software) is shipped only after undergoing strict quality controls and inspections. However, should you encounter any issues, please contact your PATLITE sales representative.
- This product (including software) is developed, designed and manufactured for general usage, such as office use, personal use, standard industry, and other related systems. Do not use, either directly or indirectly, in applications where a high level of safety is required, such as where human life is involved. We shall not be held liable for any damages or losses, nor be held responsible for any claims by a third party, as a result of using this product.
- The suitability of this product in the system, with other machines and equipment, shall be tested and confirmed by the customer. We assume no responsibility regarding this. Design safety into the system to cope with misoperation, misuse, going offline, and other unforeseen operation of this product.
- •We bear no responsibility for damages, lost opportunities, lost profits, compensation for accidents, or other costs including but not limited to personnel, construction, transportation, and shipping costs, related to using this product. We bear no responsibility for defects in other products, regardless of the other product's connection to this product (such as a communication line), or for the cost of repairing damages, losses, defects, or recovering lost data related to using the other products, including but not limited to personnel, construction, transportation, and shipping costs.
- •To improve the functionality in the software for this product, we will update the software at our own discretion. We bear no responsibility for the results of software updates, such as damages, lost opportunities, lost profits, compensation for accidents, or other costs including but not limited to personnel, construction, transportation, and shipping costs, related to using this product. We bear no responsibility for defects in other products, regardless of the other product's connection to this product (such as a communication line), or for the cost of repairing damages, losses, defects, or recovering lost data related to using other products, including but not limited to personnel, construction, transportation, and shipping costs.
- Note the following statements regarding the software for this product, which require prior written consent from PATLITE:
- * Do not duplicate the software for this product.
- * Do not alter, combine, reverse-engineer, decompile, or disassemble the software for this product.
- * Do not license, rent, or resell the software for this product to a third party.
- * Do not store the software of this product on a network so it can be transmitted to a third party.
- * Do not remove the copyright notice or other trademark and company rights attached to the software for this product.

◆Things you should always do for your safety

- Do not disassemble or modify the product. Failure to do so may lead to product malfunction or cause fire or electrocution.
- Avoid spilling liquids (such as water or chemicals) into this product. Avoid dropping foreign metallic objects (such as copper wire) into this product. Failure to follow these instructions could result in electric shock or equipment damage.
- Do not drop or hit this product. Failure to follow these instructions could result in electric shock or equipment damage.
- Do not pull strongly the cable to be connected, or use damaged cable. It becomes a disconnection or a short circuit, and this product or connected equipment may be broken or it may cause ignition.
- Do not apply too much force to switches and buttons on this product. Failure to follow this instruction could result in equipment damage.

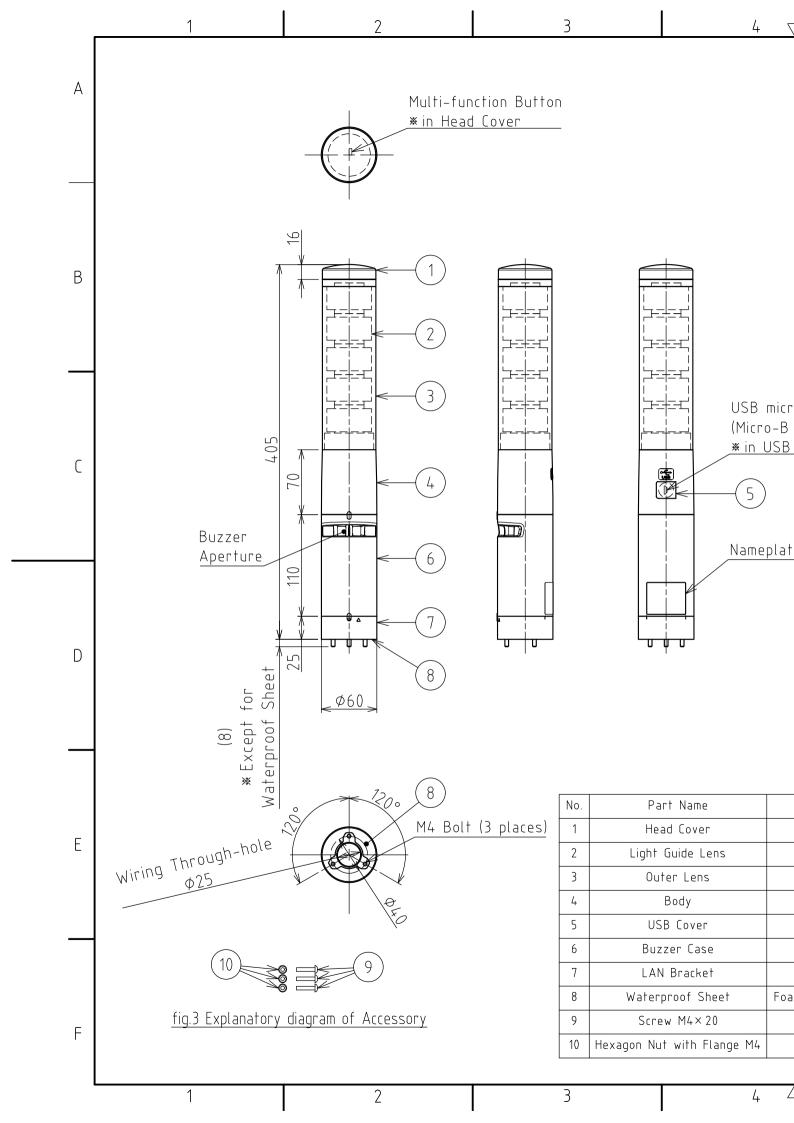
◆Installation

- Turn off the power when wiring, inspecting, or repairing this product. Failure to follow this instruction could result in equipment damage.
- Do not install in locations near fire, or environments with high temperature and humidity. Do not install this product where corrosive or flammable gas is present
- Do not install on an unstable surface. Failure to follow these instructions could result in injury or equipment damage.
- This product is rated for indoor use only. Please install and use this product indoors only.
- Avoid the following locations for installation of this product.
- * Places exposed to direct sunlight.
- * Places near fire or environments with high temperatures and humidity.
- * Environments where temperature changes are severe, and where there is condensation.
- * Environments with poor breathability and ventilation.
- * Places where external vibrations are directly transmitted to this product.
- * Environments where corrosive gas is present.
- * Locations exposed to salty sea air.
- * Locations near strong magnetic fields.
- * Environments where there is dust, iron powder, and so on.
- * Environments where chemicals and oil mist are present.

◆About maintenance

- Do not clean this product with volatile chemicals such as benzine or thinners, or with chemical wiping cloths as it could damage the product.
- · Clean this product with a soft, dry cloth.
- If the dry cloth is unable to clean off any dirt and grime, wipe the product firmly with a slightly water-moistened cloth.

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