



Universal LED tower light with a wide selection of audio and visual signaling options according to the application environment and intended use

1 Different sizes of LED steady/flashing lenses

You can select from a variety of indicators depending on the working environment and application needs

Model number	Lens diameter	Lens length
ST45(M)L	45mm	40mm
ST45(M)LF	45mm	40mm
ST56(M)EL	56mm	40mm
ST56(M)ELF	56mm	40mm
ST56(M)L	56mm	70mm
ST56(M)LF	56mm	70mm
ST80(M)EL	80mm	40mm
ST80(M)ELF	80mm	40mm
ST80(M)L	80mm	70mm
ST80(M)LF	80mm	70mm

Buzzer and sound patterns with 15 different tones

Concrete messages can be clearly conveyed with the option of 15 types of audible signals

•	•	•	
Main	Built-in sound	Channel	Sound patterns
BZ	1 buzzer sound 2 buzzer sounds		Customized 2 tone Buzzer available
WS	5 Warning sounds	Ch1 Ch2 Ch3 Ch4 Ch5	Fire.A-ANG Emergency Ambulance Machinery Fault High Expansion
WM	5 Melodies	Ch1 Ch2 Ch3 Ch4 Ch5	Sweet Home For Elise Cuckoo's Waltz Piano Sonata Turkish March
WA	5 Alarms	Ch1 Ch2 Ch3 Ch4 Ch5	Beep Intermittent Door Chime Phone Ring PI.PI.PI Short Tripping Beat

A variety of mounting bracket selection

- Wall mount type model allows for contained and tidy wiring with no exposed wires
- A number of pole mounting stands are available for a variety of environments depending on location and mounting needs
- Specifically, the QL-type and SL-type tower lights can be applied in a variety of environments as it can be folded up to 90 degrees in the horizontal direction. These products can avoid damage due to external forces when movement of the equipment is required
- QLA type offers an easy to use angle adjustment button on the side for angle intervals of 45 to 90 degrees. No additional tools necessary

Mounting Bracket Options Pole Mount Brackets · Wall Mount Brackets LW18 TWS45 QZ18 **QLA18** TWA45 LB18 SZ18 QL18 **SL18** Standard **TWS80** TWA80 LB24 LW24 QZ24 SZ24 QL24 SL24 QLA24 Steel Steel PC PC ΑI PC

^{*} Please refer to page 34-39 for detailed dimensions.

Qlight

ST45L/ST56L/ST80L series

LED Steady/Flashing Tower Lights

Interchangeable Lens Concept

ST45L/ ST56L/ ST80L series product allows for the lens arrangement to be adjusted after removing the bolt that secures the cover. If additional lenses are required for this product please reach out to us. ST45L/ ST56L/ ST80L series can be stacked up to 5 layers.



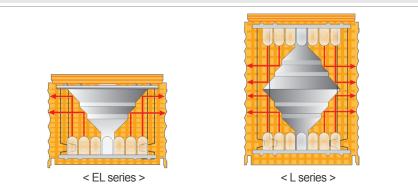


References

Common Specifications(ST45(M)L/ ST56(M)EL/ ST56(M)L/ ST80(M)EL/ ST80(M)L)

- LED steady/flashing tower lights
- · Long product lifetime of over 20,000hours with the application of a high intensity LED light source
- Can select from size selections of Ø45mm, Ø56mm, and Ø80mm to fit your sophisticated application needs
- A variety of mounting bracket selections for the pole mount type to fit your location and mounting needs
- Built-in buzzer available (Volume : Max 90dB at 1m)
- Built-in alarm available (Volume : Max 85dB at 1m/ Speaker output type) (Can select from 5 warning sounds, 5 alarms, 5 melodies to fit your application needs)
- Flashing rate : 60-80 flashes/min
- · Customized color arrangement available (LED light distribution system and lens is integrated into a combined structure)
- · Materials : Lens-AS, Housing-ABS, Pole-Al
- Ambient operating temperature: -30°C to +60°C
- Protection rating: Standard type-IP44, Built-in buzzer type-IP23
- · Certificates : CE Compliant, UL Listed
- · Compliant with RoHS directive

Reflection System



- · Qlight's special light distribution system with multi-tiered reflector provides linear and balanced light transmission to the lens for strong LED illumination throughout the product
- The special light diffusion structure inside the product creates the brightest signal light at the center of the lens





Signal & Electric Ho Speakers













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Wireles







Industrial LED Lights

Lens dimension Buzzer and Mount type Sound Ø56mm Ø56mm Ø80mm Ø80mm Ø45mm sound patterns H40mm H40mm H70mm H40mm H70mm Standard ST56ML(F) ST80MEL(F) ST80ML(F) No sound ST45ML(F) ST56MEL(F) Built-in buzzer ST45ML(F)-BZ ST56MEL(F)-BZ ST80MEL(F)-BZ ST80ML(F)-BZ ST56ML(F)-BZ 5 Warning sounds ST45ML(F)-WS ST56MEL(F)-WS ST56ML(F)-WS ST80MEL(F)-WS ST80ML(F)-WS 5 Melodies ST45ML(F)-WM ST56MEL(F)-WM ST56ML(F)-WM ST80MEL(F)-WM ST80ML(F)-WM Direct mount 5 Alarms ST45ML(F)-WA ST56MEL(F)-WA ST56ML(F)-WA ST80MEL(F)-WA ST80ML(F)-WA Standard ST80L(F) No sound ST45L(F) ST56EL(F) ST56L(F) ST80EL(F) Built-in buzzer ST45L(F)-BZ ST56EL(F)-BZ ST56L(F)-BZ ST80EL(F)-BZ ST80L(F)-BZ 5 Warning sounds ST45L(F)-WS ST56EL(F)-WS ST56L(F)-WS ST80EL(F)-WS ST80L(F)-WS 5 Melodies ST45L(F)-WM ST56EL(F)-WM ST56L(F)-WM ST80EL(F)-WM ST80L(F)-WM Pole mount 5 Alarms ST56EL(F)-WA ST80EL(F)-WA ST80L(F)-WA ST45L(F)-WA ST56L(F)-WA



Ø45mm LED Steady/Flashing Tower Lights





















ST45ML series

Built-in buzzer output holes formed on the housing of the product.



Substitute model numbers for discontinued model

Built-in signal sound type, ST45ML-WS, ST45ML-WM, ST45ML-WA are substituted for old model number ST45WML.

All specifications such as diameter and functions are all the same.



ST45ML Ø45mm Direct Mount, LED Steady/Flashing

Model number	Layer	Voltage	Current	Certificates	Weight	Color
	1	AC/DC12V AC/DC24V AC110V AC220V	0.040A 0.040A 0.024A 0.012A	DC24V only DC24V only	0.19kg 0.19kg 0.25kg 0.25kg	• R-Red
ST45ML ST45ML-BZ	2	AC/DC12V AC/DC24V AC110V AC220V	0.080A 0.080A 0.026A 0.013A		0.21kg 0.21kg 0.29kg 0.29kg	R-RedG-Green
ST45ML-WS ST45ML-WM ST45ML-WA ST45MLF ST45MLF-BZ	3	AC/DC12V AC/DC24V AC110V AC220V	0.120A 0.120A 0.028A 0.014A		0.25kg 0.25kg 0.34kg 0.34kg	R-RedA-AmberG-Green
ST45MLF-WS ST45MLF-WM ST45MLF-WA	4	AC/DC12V AC/DC24V AC110V AC220V	0.160A 0.160A 0.031A 0.015A		0.30kg 0.30kg 0.38kg 0.38kg	R-RedA-AmberG-GreenB-Blue
•	5	AC/DC12V AC/DC24V AC110V AC220V	0.200A 0.200A 0.033A 0.016A		0.34kg 0.34kg 0.42kg 0.42kg	R-RedA-AmberG-GreenB-BlueW-White
ST45ML Steady ST45ML-BZ Built-in buzzer. Steady						

ST45ML-BZ Built-in buzzer, Steady ST45ML-WS Built-in 5 Warning sounds, Steady ST45ML-WM Built-in 5 Melodies, Steady ST45ML-WA Built-in 5 Alarms, Steady ST45MLF Steady/ flashing ST45MLF-BZ Built-in buzzer, Steady/ flashing

ST45MLF-WS Built-in 5 Warning sounds, Steady/ flashing ST45MLF-WM Built-in 5 Melodies, Steady/ flashing ST45MLF-WA Built-in 5 Alarms, Steady/ flashing

^{*} Please refer to page 24 for detailed information about selectable sound patterns.

Signal/ Audible Line Current(per each layer)						
Voltage	AC/DC12V	AC/DC24V	AC110V	AC220V		
Signal line current	0.040A	0.040A	0.024A	0.012A		
Audible line current	0.016A	0.031A	0.027A	0.030A		



Customization

AC type each layer power provided(same wiring DC steady)

[Layer]

• 1-1Layer

• 2-2Layers

• 3-3Layers

• 4-4Layers

• 5-5Layers

- DC24V voltage UL listed product
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
- · Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall





Wall Mount Bracket Wall Mount Bracket **TWS45 TWA45**

Ordering Specification

ST45ML

- [Model number]
- ST45ML
- ST45ML-BZ
- ST45ML-WS
- ST45ML-WM
- ST45ML-WA
- ST45MLF
- ST45MLF-BZ
- ST45MLF-WS
- ST45MLF-WM
- ST45MLF-WA

24

- [Voltage]
- 12-DC12V
- 24-DC24V
- 110-AC110V
- 220-AC220V
- G-Green B-Blue
 - W-White

RAG

[Color]

R-Red

A-Amber



Ø45mm LED Steady/Flashing Tower Lights





















ST45L series

Built-in buzzer output holes formed on the housing of the product.



Substitute model numbers for discontinued model

Built-in signal sound type, ST45L-WS, ST45L-WM, ST45L-WA are substituted for old model number ST45WL.

All specifications such as diameter and functions are all the same.

Mounting Bracket							
Standard	LB18	LW18	QZ18				
		·	1				
Steel	Steel	PC	PC				
SZ18	QL18	SL18	QLA18				
	4						
Al	PC	Al	PC				

* Please refer to page 34-39 for detailed dimensions.

ST45L Ø45mm Pole Mount, LED Steady/Flashing

	Model number	Layer	Voltage	Current	Certificates	Weight	Color
		1	AC/DC12V AC/DC24V AC110V AC220V	0.040A 0.040A 0.024A 0.012A	DC24V only DC24V only	0.35kg 0.35kg 0.45kg 0.45kg	• R-Red
	ST45L ST45L-BZ	2	AC/DC12V AC/DC24V AC110V AC220V	0.080A 0.080A 0.026A 0.013A		0.39kg 0.39kg 0.49kg 0.49kg	R-RedG-Green
ST4 ST4 ST4 ST4 ST4	ST45L-WS ST45L-WM ST45L-WA ST45LF ST45LF-BZ	3	AC/DC12V AC/DC24V AC110V AC220V	0.120A 0.120A 0.028A 0.014A		0.44kg 0.44kg 0.54kg 0.54kg	R-RedA-AmberG-Green
	ST45LF-WS ST45LF-WM ST45LF-WA	4	AC/DC12V AC/DC24V AC110V AC220V	0.160A 0.160A 0.031A 0.015A		0.48kg 0.48kg 0.58kg 0.58kg	R-RedA-AmberG-GreenB-Blue
	•	5	AC/DC12V AC/DC24V AC110V AC220V	0.200A 0.200A 0.033A 0.016A		0.52kg 0.52kg 0.62kg 0.62kg	R-RedA-AmberG-GreenB-BlueW-White
		0745	01				

ST45L Steady ST45L-BZ Built-in buzzer, Steady ST45L-WS Built-in 5 Warning sounds, Steady ST45L-WM Built-in 5 Melodies, Steady ST45L-WA Built-in 5 Alarms, Steady ST45LF Steady/ flashing ST45LF-BZ Built-in buzzer, Steady/ flashing

ST45LF-WS Built-in 5 Warning sounds, Steady/ flashing ST45LF-WM Built-in 5 Melodies, Steady/ flashing ST45LF-WA Built-in 5 Alarms, Steady/ flashing

* Please refer to page 24 for detailed information about selectable sound patterns.

Signal/ Audible Line Current(per each layer)

Voltage	AC/DC12V	AC/DC24V	AC110V	AC220V
Signal line current	0.040A	0.040A	0.024A	0.012A
Audible line current	0.016A	0.031A	0.027A	0.030A

ST45LF-WM

• ST45LF-WA

Customization

- 2 buzzer sound types: Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
- AC type each layer power provided(same wiring DC steady)
- DC24V voltage UL listed product
- · Customized pole length available

Ordering Specification							
ST45L	- 3	- 24	RAG	LW18			
[Model number]	[Layer]	[Voltage]	[Color]	[Mounting bracket]			
1	I	I	I	I			
 ST45L 	 1-1Layer 	 12-DC12V 	R-Red	 None 			
 ST45L-BZ 	 2-2Layers 	 24-DC24V 	 A-Amber 	-Standard			
 ST45L-WS 	 3-3Layers 	 110-AC110V 	 G-Green 	 Bracket 			
 ST45L-WM 	 4-4Layers 	 220-AC220V 	 B-Blue 	-LB18			
 ST45L-WA 	 5-5Layers 		W-White	-LW18			
 ST45LF 	•			-QZ18			
 ST45LF-BZ 				-SZ18			
 ST45LF-WS 				-QL18			























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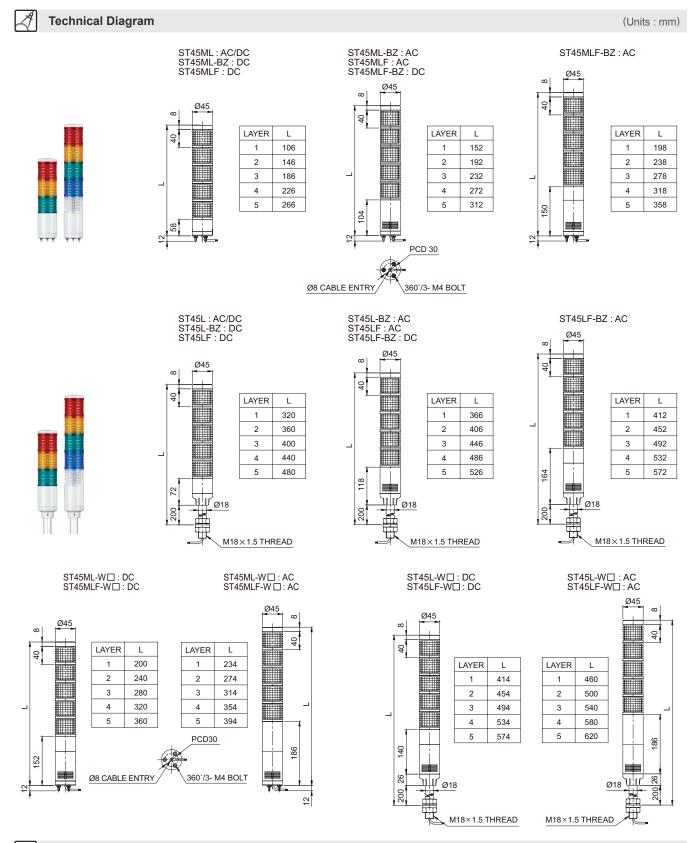
-SL18

-QLA18

ST45ML/ST45L







Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Signal line standard: UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and external contact
- * Please refer to page299-300 for detailed wiring instructions.