

Clear and Strong Signal Light Emitted through the Colored Diffusion Lens



Common Specifications(QTG50/ QTG60/ QTG70)

- Modular steady/flashing type signal tower lights
- Excellent visibility from a distance with the use of a special color diffusing lens
- Can select from size selections of Ø50mm, Ø60mm, and Ø70mm to fit your sophisticated application needs
- The addition of modules and change in color arrangement can be achieved without the use of tools by using the Lock-type structure
- QTGA type offers a nifty integrated lens and cover for a simple aesthetically pleasing product
- A variety of mounting bracket selections for the pole mount type to fit your location and mounting needs
- Buzzer sound output : Sound volume of Max 85dB at 1m
- Available in 2 customized options; sounds buzzer type and high volume(105dB) buzzer type
- Can be used with NPN open collector transistor driven input, which allows direct connection to a PLC
- Flashing rate : 60-80 flashes/min
- Materials : Lens-PC, Housing-ABS, Pole-Al
- Ambient operating temperature : -30°C to +50°C
- Protection rating : Standard type-IP65, Built-in buzzer type-IP54
- Certificates : CE Compliant, UL Listed
- Compliant with RoHS directive



• Each modular color lens can be added without additional tools

QTG model uses a special contact structure for stable operation, the lens modules lock into place by rotating the modular structures together. This allows for easy changes to the color arrangement without any tools. Additional modules can be added.



• **Buzzer volume is adjusted via the volume control lever**
 QTG type volume can be adjusted for each specific working condition with the equipped buzzer volume control lever at the bottom of the product.(-BZ type)

1 High volume buzzer (105dB) option can be fitted to the top of the product. (Customization)

High volume 105dB volume buzzer module fastened to the top of the product provides 360 degree buzzer signal output which cannot be achieved with the single directional buzzer.(Buzzer volume cannot be adjusted)

2 Integrated cover and lens model (QTGA50/ QTGA60/ QTGA70)

QTGA50/ QTGA60/ QTGA70 The sleek lens cover model is made of one piece for a simple unified look.

3 Black body option available

Products can be configured with the black body and cover option. In addition, the buzzer option is also available in a black color body and buzzer.

4 Can select from a variety of mounting brackets option to fit your application needs and build environment

There are a variety of mounting brackets options available depending on cost and installation requirements.



Warning/
Signal/
Stackable



Signal &
Electric Horn/
Speakers



Vessels and
Heavy-Duty
Equipment



Explosion
Proof



Warning
Light Bar



Aviation
Obstruction
Lights



Signal Tower
Lights



USB/ETN
Signal Tower
Lights



Wireless
Network
System



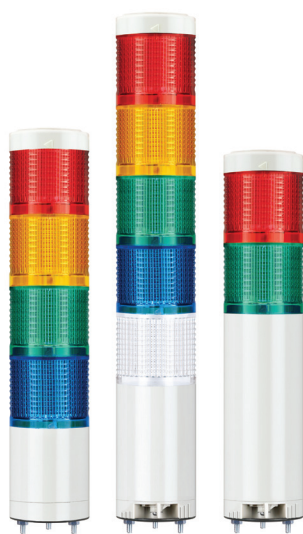
Electric Horn/
Speakers



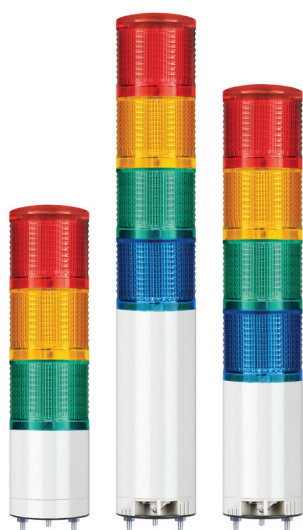
Industrial
LED Lights

QTG50ML

Ø50mm LED Steady/Flashing Tower Lights

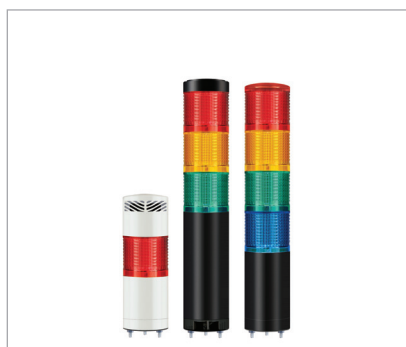


QTG50ML series



QTGA50ML series

• Customization



- High buzzer module equipped on top/ Black housing tower lights.

QTG50ML Ø50mm Direct Mount, LED Steady/Flashing Type

Model number	Layer	Voltage	Current	Certificates	Weight	Color
QTG50ML Steady	1	AC/DC12V	0.080A	DC24V only DC24V only	0.19kg	• R-Red
QTG50ML-BZ Steady /w built-in buzzer		AC/DC24V	0.045A		0.19kg	
QTG50MLF Steady/Flashing	2	AC/DC12V	0.160A		0.27kg	• R-Red • G-Green
QTG50MLF-BZ Steady/Flashing /w built-in buzzer		AC/DC24V	0.090A		0.27kg	
QTGA50ML Steady	3	AC/DC12V	0.240A		0.36kg	• R-Red • A-Amber • G-Green
QTGA50ML-BZ Steady /w built-in buzzer		AC/DC24V	0.135A		0.46kg	
QTGA50MLF Steady/Flashing	4	AC/DC12V	0.320A		0.44kg	• R-Red • A-Amber • G-Green • B-Blue
QTGA50MLF-BZ Steady/Flashing /w built-in buzzer		AC/DC24V	0.180A		0.54kg	
QTGA50MLF Steady/Flashing	5	AC/DC12V	0.400A		0.53kg	• R-Red • A-Amber • G-Green • B-Blue • W-White
QTGA50MLF-BZ Steady/Flashing /w built-in buzzer		AC/DC24V	0.225A		0.63kg	

※ AC type model has a free-voltage range of 100V-240V.

Signal/ Audible Line Current(per each layer)

Voltage	AC/DC12V	AC/DC24V	AC110V-220V
Signal line current	0.080A	0.045A	Max 0.045A
Audible line current	0.016A	0.031A	Max 0.030A

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 wiring with external contact and transistor
- ※ Please refer to page 331-332 for detailed wiring instructions.

Customization

- High buzzer module equipped on top(Lens should be within 4 layers)
- Black housing tower lights
- 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 mount

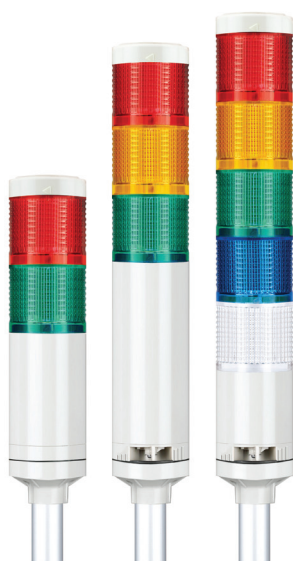


Ordering Specification

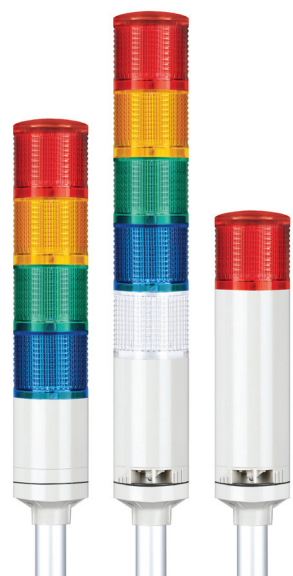
QTG50ML	-	3	-	110/220	-	RAG
[Model number]		[Layer]		[Voltage]		[Color]
<ul style="list-style-type: none"> • QTG50ML • QTG50ML-BZ • QTG50MLF • QTG50MLF-BZ • QTGA50ML • QTGA50ML-BZ • QTGA50MLF • QTGA50MLF-BZ 		<ul style="list-style-type: none"> • 1-1Layer • 2-2Layers • 3-3Layers • 4-4Layers • 5-5Layers 		<ul style="list-style-type: none"> • 12-DC12V • 24-DC24V • 110/220 -AC110V-220V 		<ul style="list-style-type: none"> • R-Red • A-Amber • G-Green • B-Blue • W-White

QTG50L

Ø50mm LED Steady/Flashing Tower Lights



QTG50L series



QTGA50L series

• Customization



- High buzzer module equipped on top/ Black housing tower lights.

QTG50L Ø50mm Pole Mount, LED Steady/Flashing Type

Model number	Layer	Voltage	Current	Certificates	Weight	Color	
QTG50L Steady	1	AC/DC12V	0.080A	DC24V only DC24V only	0.34kg	• R-Red	
QTG50L-BZ Steady /w built-in buzzer		AC/DC24V	0.045A		0.34kg		
QTG50LF Steady/Flashing		AC110V-220V	Max 0.045A		0.44kg		
QTG50LF-BZ Steady/Flashing /w built-in buzzer	2	AC/DC12V	0.160A		DC24V only DC24V only	0.43kg	• R-Red • G-Green
QTGA50L Steady		AC/DC24V	0.090A			0.43kg	
QTGA50L-BZ Steady /w built-in buzzer	AC110V-220V	Max 0.065A	0.53kg				
QTGA50LF Steady/Flashing	3	AC/DC12V	0.240A	DC24V only DC24V only		0.51kg	• R-Red • A-Amber • G-Green
QTGA50LF-BZ Steady/Flashing /w built-in buzzer		AC/DC24V	0.135A			0.51kg	
QTGA50L Steady		AC110V-220V	Max 0.080A			0.61kg	
QTGA50L-BZ Steady /w built-in buzzer	4	AC/DC12V	0.320A		DC24V only DC24V only	0.60kg	• R-Red • A-Amber • G-Green • B-Blue
QTGA50LF Steady/Flashing		AC/DC24V	0.180A			0.60kg	
QTGA50LF-BZ Steady/Flashing /w built-in buzzer	AC110V-220V	Max 0.100A	0.70kg				
QTGA50L Steady	5	AC/DC12V	0.400A	DC24V only DC24V only		0.68kg	• R-Red • A-Amber • G-Green • B-Blue • W-White
QTGA50L-BZ Steady /w built-in buzzer		AC/DC24V	0.225A			0.68kg	
QTGA50LF Steady/Flashing /w built-in buzzer		AC110V-220V	Max 0.120A			0.78kg	

※ AC type model has a free-voltage range of 100V-240V.

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 wiring with external contact and transistor
- ※ Please refer to page 331-332 for detailed wiring instructions.

Mounting Bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18	QLA18
Steel	Steel	PC	PC	Al	PC	Al	PC

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

Customization

- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep) buzzer output available
- Customized pole length available
- High buzzer module equipped on top(Lens should be within 4 layers)
- Black housing tower lights

Ordering Specification

QTG50L	-	3	-	110/220	-	RAG	-	LW18
[Model number]		[Layer]		[Voltage]		[Color]		[Mounting bracket]
• QTG50L		• 1-1Layer		• 12-DC12V		• R-Red		• None
• QTG50L-BZ		• 2-2Layers		• 24-DC24V		• A-Amber		• Standard
• QTG50LF		• 3-3Layers		• 110/220		• G-Green		• Bracket
• QTG50LF-BZ		• 4-4Layers		• AC110V-220V		• B-Blue		• LB18 -LW18
• QTGA50L		• 5-5Layers				• W-White		• QZ18 -SZ18
• QTGA50L-BZ								• QL18 -SL18
• QTGA50LF								• QLA18
• QTGA50LF-BZ								



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Industrial
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QTG series

LED Steady/Flashing Tower Lights



Technical Diagram

(Units : mm)

QTG50ML : DC
QTG50MLF : DC
QTG50ML-BZ : DC

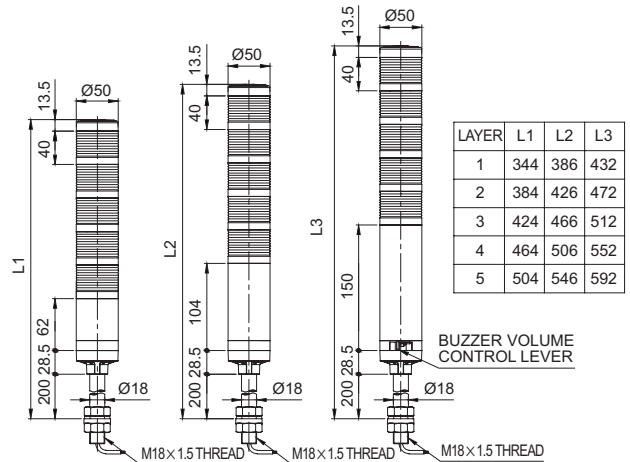
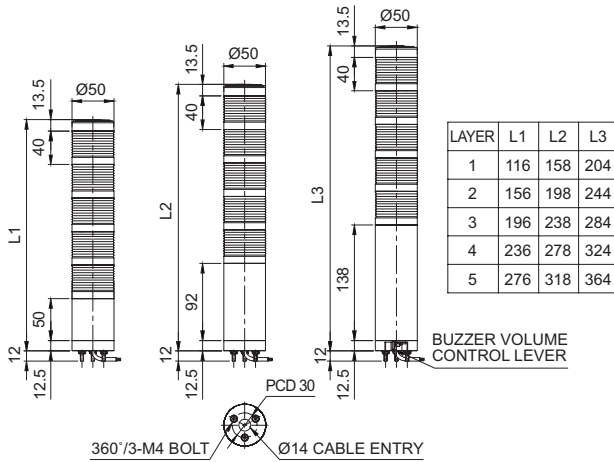
QTG50ML : AC
QTG50MLF-BZ : DC

QTG50MLF : AC
QTG50ML-BZ : AC
QTG50MLF-BZ : AC

QTG50L : DC
QTG50LF : DC
QTG50L-BZ : DC

QTG50L : AC
QTG50LF-BZ : DC

QTG50LF : AC
QTG50L-BZ : AC
QTG50LF-BZ : AC



QTG60ML : DC
QTG60MLF : DC
QTG60ML-BZ : DC

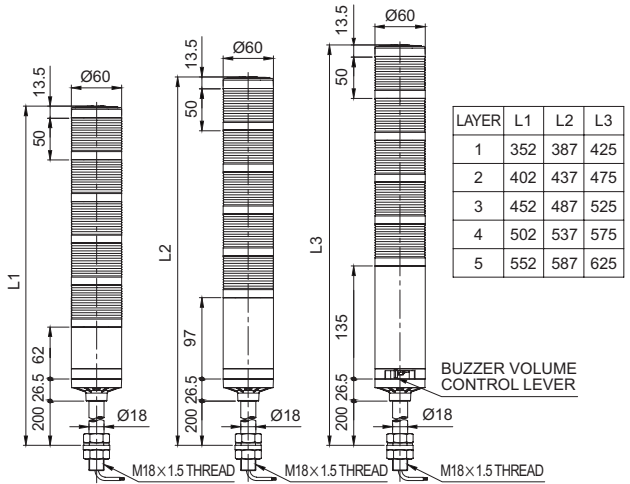
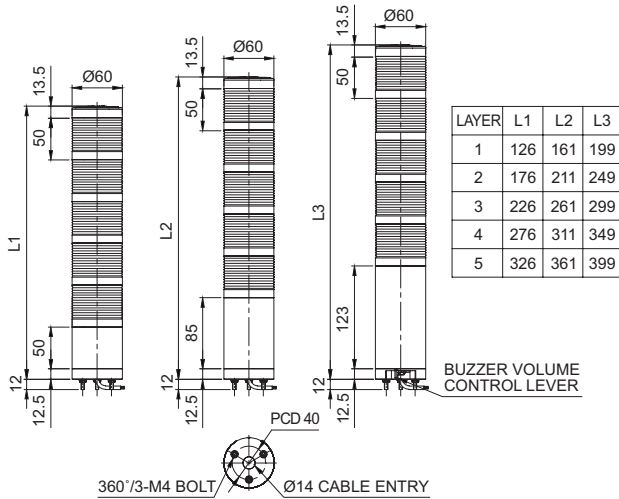
QTG60ML : AC
QTG60MLF-BZ : DC

QTG60MLF : AC
QTG60ML-BZ : AC
QTG60MLF-BZ : AC

QTG60L : DC
QTG60LF : DC
QTG60L-BZ : DC

QTG60L : AC
QTG60LF-BZ : DC

QTG60LF : AC
QTG60L-BZ : AC
QTG60LF-BZ : AC



QTG70ML : DC
QTG70MLF : DC
QTG70ML-BZ : DC

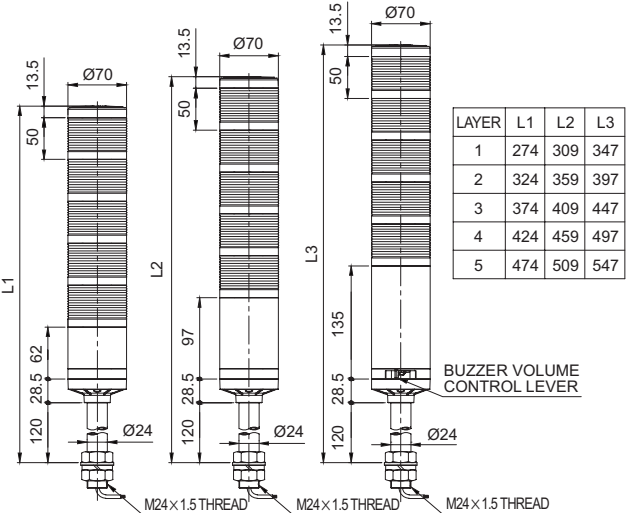
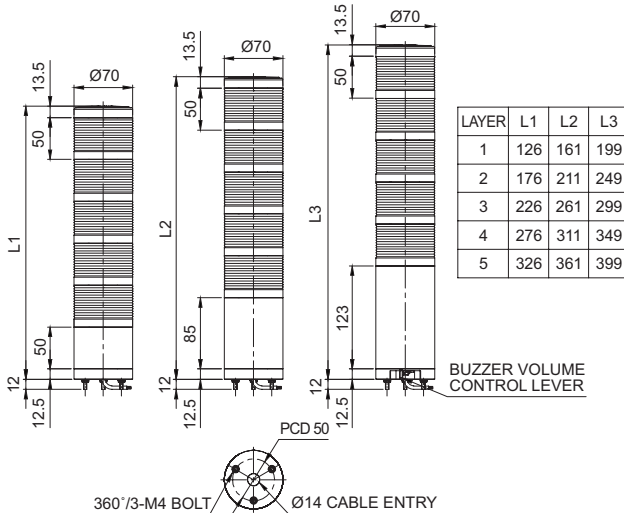
QTG70ML : AC
QTG70MLF : AC
QTG70ML-BZ : AC
QTG70MLF-BZ : DC

QTG70MLF-BZ : AC

QTG70L : DC
QTG70LF : DC
QTG70L-BZ : DC

QTG70L : AC
QTG70LF : AC
QTG70L-BZ : AC
QTG70LF-BZ : DC

QTG70LF-BZ : AC

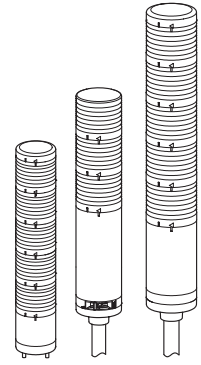


Modular LED Signal Tower Lights

QTG50/ QTG60/ QTG70



Thank you for purchasing Qlight's products. Please read this user manual carefully prior to installation and operation to ensure safe and correct use.



Wiring Instructions

■ Wiring using external contact

• In case of wiring with external contacts, refer to the wiring diagrams below according to your product's type and voltage setting.

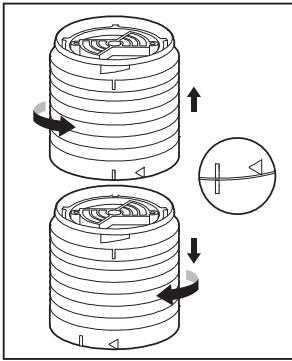
	Wiring diagrams		Wiring diagrams
24V AC/DC Steady/Flashing	<p>• QTG(A) □□(M)LF - Refer to this diagram for buzzer type product</p> <p>• QTG □□ LF □ Lens diameter 50(50mm) : QTG50(M)LF 60(60mm) : QTG60(M)LF 70(70mm) : QTG70(M)LF</p>	110V/220V AC Steady/Flashing	<p>• QTG(A) □□(M)LF - Refer to this diagram for buzzer type product</p> <p>• QTG □□ LF □ Lens diameter 50(50mm) : QTG50(M)LF 60(60mm) : QTG60(M)LF 70(70mm) : QTG70(M)LF</p>
QTG50MLF QTG50LF QTG60MLF QTG60LF QTG70MLF QTG70LF		QTG50MLF QTG50LF QTG60MLF QTG60LF QTG70MLF QTG70LF	

■ Wiring using transistor

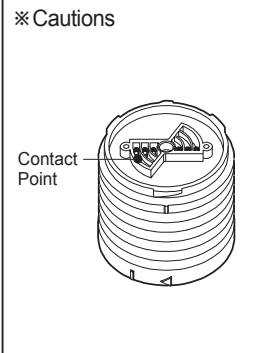
• When using a transistor, please choose between the NPN or PNP type transistor which best matches the voltage and product type, then connect them correctly according to the wiring diagrams below.

	Wiring diagrams		Wiring diagrams
24V AC/DC Steady/Flashing	<p>PNP-Transistor External Transistor-PNP</p> <p>• QTG(A) □□(M)LF - Refer to this diagram for buzzer type product</p> <p>• QTG □□ LF □ Lens diameter 50(50mm) : QTG50(M)LF 60(60mm) : QTG60(M)LF 70(70mm) : QTG70(M)LF</p>	110V/220V AC Steady/Flashing	<p>PNP-Transistor External Transistor-PNP</p> <p>• QTG(A) □□(M)LF - Refer to this diagram for buzzer type product</p> <p>• QTG □□ LF □ Lens diameter 50(50mm) : QTG50(M)LF 60(60mm) : QTG60(M)LF 70(70mm) : QTG70(M)LF</p>
QTG50MLF QTG50LF QTG60MLF QTG60LF QTG70MLF QTG70LF		QTG50MLF QTG50LF QTG60MLF QTG60LF QTG70MLF QTG70LF	

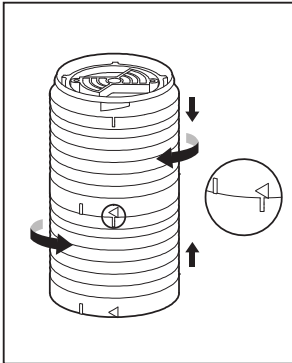
How to Change Lens Kit



- Disassembling lens kits
- ① Twist the upper lens kit in a counter-wise direction so the "I" mark from both kits align.
- ② Disassemble by removing the upper lens kit from the lower one.



※ Cautions
Lens modules are connected through cone-shaped contact point. In case the contact point is damaged, it may cause a contact failure.



- Assembling lens kits
- ① Put the two lens kits together by aligning the upper lens' "I" mark and the lower lens' "I" mark together.
- ② Lock the two kits by twisting the upper lens kit in a counter-wise direction so the upper lens' "I" mark aligns with the lower lens' "I" mark.

Installation Environment and Protection Rating

- This product is designed for indoor use with protection rating of IP65(standard type) and IP54(buzzer type).
- If the product is installed in locations that subject it to excessive dust or water other than the designated IP protection rating indicated(IP65), it may cause malfunction or damage to the product.
- For further information, please visit our website(www.qlight.com).