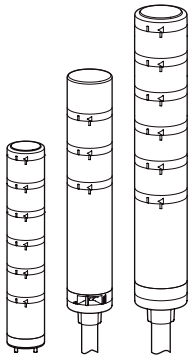
Modular LED Signal Tower Lights

QTR50/ QTR60/ QTR70



IP54 IP65 -30~+50℃ BUZZER 85dB NPN PNP RoHS2

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

⚠ Precautions for Safety

Failure to follow the instructions below may cause a loss of life or serious physical injury.

1. During wiring or maintenance, please completely turn off the power of the product. (Failure to follow this may lead to an electric shock.)
2. Do not install the product in locations that subjects it to excessive dust or water other than the conditions designated by the IP protection ratings indicated for each product. (Failure to follow these instructions may cause a fire to the product, electric shock, physical injury, malfunction or damage to the product.)
3. Do not alter or repair this product. If maintenance or repair service is required, please contact your local Qlight contact point. (Failure to follow these instructions may lead to fire, electric shock, or product damage.)
4. Please apply the correct voltage to the product. (Failure to follow these instructions may lead to fire, electric shock, or product damage.)
5. When the product is applied to a condition that may impact lives or property, please make sure to have a double safety device. (Failure to follow this may cause damage to property, fire, electric shock and loss of life.)

⚠ Precautions for Correct Use

Failure to follow the proper instructions may cause damage to property, the product, and or malfunction of the product that would void the warranty.

1. Please remove any objects that can interrupt ventilation around the product.
2. Please turn off the power of the product immediately if it fails to operate properly.
3. Carefully wire the product according to each product's specification.
4. Please be careful in preventing chemicals such as thinner, benzene, etc. in contact with the surface of the product.
5. Do not apply excessive force/impact to the product.
6. Failure to follow any of the instructions above may cause malfunction or damage to the product, fire, and electric shock.

Ordering Specifications

QTR50/ 60/ 70L	-	3	-	110/220	-	RAG	-	LW18/24
[Model number]		[Layer count]		[Voltage]		[Color]		[Bracket]
• QTR50/ 60/ 70L • QTR50/ 60/ 70L-BZ • QTR50/ 60/ 70LF • QTR50/ 60/ 70LF-BZ • QTRA50/ 60/ 70L • QTRA50/ 60/ 70L-BZ • QTRA50/ 60/ 70LF • QTRA50/ 60/ 70LF-BZ		• 1-1 Layer • 2-2 Layers • 3- 3Layers • 4-4 Layers • 5-5 Layers		• 12-DC12V • 24-DC24V • 110/220 -AC110V-220V		R-Red A-Amber G-Green B-Blue W-White		• None-Standard • Bracket -LB18/24 -LW18/24 -QZ18/24 -SZ18/24 -QL18/24 -SL18/24 - SLB370

QTR50/ 60/ 70ML	-	3	-	110/220	-	RAG
[Model number]		[Layer count]		[Voltage]		[Color]
• QTR50/ 60/ 70ML • QTR50/ 60/ 70ML-BZ • QTR50/ 60/ 70MLF • QTR50/ 60/ 70MLF-BZ • QTRA50/ 60/ 70ML • QTRA50/ 60/ 70ML-BZ • QTRA50/ 60/ 70MLF • QTRA50/ 60/ 70MLF-BZ		• 1-1 Layer • 2-2 Layers • 3- 3Layers • 4-4 Layers • 5-5 Layers		• 12-DC12V • 24-DC24V • 110/220-AC110V-220V		R-Red A-Amber G-Green B-Blue W-White

Please scan the QR code for more detailed product information.

www.qlight.com

Product Specifications

• QTR50L

Model number	Layer count	Voltage	Certificate	Weight	Color
QTR50L Steady QTR50L-BZ Steady/w built-in buzzer QTR50LF Steady/Flashing QTR50LF-BZ Steady/Flashing /w built-in buzzer QTRA50L Steady QTRA50L-BZ Steady/w built-in buzzer QTRA50LF Steady/Flashing QTRA50LF-BZ Steady/Flashing /w built-in buzzer	1	DC12V DC24V AC110V~220V	CE UL	0.34kg 0.34kg 0.44kg	R-Red
	2	AC/DC12V AC/DC24V AC110V~220V		0.43kg 0.43kg 0.53kg	R-Red G-Green
	3	AC/DC12V AC/DC24V AC110V~220V		0.51kg 0.51kg 0.61kg	R-Red A-Amber G-Green
	4	AC/DC12V AC/DC24V AC110V~220V		0.60kg 0.60kg 0.70kg	R-Red A-Amber G-Green B-Blue
	5	AC/DC12V AC/DC24V AC110V~220V		0.68kg 0.68kg 0.78kg	R-Red A-Amber G-Green B-Blue W-White

Light source/buzzer current(based on 1 layer)			
Voltage condition	DC12V	DC24V	AC110-220V
Light source current (1 layer)	90mA	70mA	Max.55mA
Buzzer current	40mA	75mA	Max.55mA

• QTR60L

Model number	Layer count	Voltage	Certificate	Weight	Color
QTR60L Steady QTR60L-BZ Steady/w built-in buzzer QTR60LF Steady/Flashing QTR60LF-BZ Steady/Flashing /w built-in buzzer QTRA60L Steady QTRA60L-BZ Steady/w built-in buzzer QTRA60LF Steady/Flashing QTRA60LF-BZ Steady/Flashing /w built-in buzzer	1	DC12V DC24V AC110V~220V	CE UL	0.41kg 0.41kg 0.51kg	R-Red
	2	DC12V DC24V AC110V~220V		0.50kg 0.50kg 0.60kg	R-Red G-Green
	3	DC12V DC24V AC110V~220V		0.58kg 0.58kg 0.68kg	R-Red A-Amber G-Green
	4	DC12V DC24V AC110V~220V		0.67kg 0.67kg 0.77kg	R-Red A-Amber G-Green B-Blue
	5	DC12V DC24V AC110V~220V		0.75kg 0.75kg 0.85kg	R-Red A-Amber G-Green B-Blue W-White

Light source/buzzer current(based on 1 layer)			
Voltage condition	DC12V	DC24V	AC110-220V
Light source current (1 layer)	105mA	70mA	Max.60mA
Buzzer current	40mA	75mA	Max.55mA

• QTR70L

Model number	Layer count	Voltage	Certificate	Weight	Color
QTR70L Steady QTR70L-BZ Steady/w built-in buzzer QTR70LF Steady/Flashing QTR70LF-BZ Steady/Flashing /w built-in buzzer QTRA70L Steady QTRA70L-BZ Steady/w built-in buzzer QTRA70LF Steady/Flashing QTRA70LF-BZ Steady/Flashing /w built-in buzzer	1	DC12V DC24V AC110V~220V	CE UL	0.54kg 0.54kg 0.64kg	R-Red
	2	DC12V DC24V AC110V~220V		0.66kg 0.66kg 0.76kg	R-Red G-Green
	3	DC12V DC24V AC110V~220V		0.81kg 0.81kg 0.90kg	R-Red A-Amber G-Green
	4	DC12V DC24V AC110V~220V		0.96kg 0.96kg 1.06kg	R-Red A-Amber G-Green B-Blue
	5	DC12V DC24V AC110V~220V		1.20kg 1.20kg 1.29kg	R-Red A-Amber G-Green B-Blue W-White

Light source/buzzer current(based on 1 layer)			
Voltage condition	DC12V	DC24V	AC110-220V
Light source current (1 layer)	105mA	70mA	Max.60mA
Buzzer current	40mA	75mA	Max.55mA

※ QTR series UL listed : DC24V

• QTR50ML

Model number	Layer count	Voltage	Certificate	Weight	Color
QTR50ML Steady QTR50ML-BZ Steady/w built-in buzzer QTR50MLF Steady/Flashing QTR50MLF-BZ Steady/Flashing /w built-in buzzer QTRA50ML Steady QTRA50ML-BZ Steady/w built-in buzzer QTRA50MLF Steady/Flashing QTRA50MLF-BZ Steady/Flashing /w built-in buzzer	1	DC12V DC24V AC110V~220V	CE UL	0.19kg 0.19kg 0.29kg	R-Red
	2	DC12V DC24V AC110V~220V		0.27kg 0.27kg 0.37kg	R-Red G-Green
	3	DC12V DC24V AC110V~220V		0.36kg 0.36kg 0.46kg	R-Red A-Amber G-Green
	4	DC12V DC24V AC110V~220V		0.44kg 0.44kg 0.54kg	R-Red A-Amber G-Green B-Blue
	5	DC12V DC24V AC110V~220V		0.53kg 0.53kg 0.63kg	R-Red A-Amber G-Green B-Blue W-White

Light source/buzzer current(based on 1 layer)			
Voltage condition	DC12V	DC24V	AC110-220V
Light source current (1 layer)	0.090A	0.070A	Max.0.055A
Buzzer current	0.040A	0.075A	Max.0.055A

• QTR60ML

Model number	Layer count	Voltage	Certificate	Weight	Color
QTR60ML Steady QTR60ML-BZ Steady/w built-in buzzer QTR60MLF Steady/Flashing QTR60MLF-BZ Steady/Flashing /w built-in buzzer QTRA60ML Steady QTRA60ML-BZ Steady/w built-in buzzer QTRA60MLF Steady/Flashing QTRA60MLF-BZ Steady/Flashing /w built-in buzzer	1	DC12V DC24V AC110V~220V	CE UL	0.26kg 0.26kg 0.36kg	R-Red
	2	DC12V DC24V AC110V~220V		0.34kg 0.34kg 0.44kg	R-Red G-Green
	3	DC12V DC24V AC110V~220V		0.43kg 0.43kg 0.53kg	R-Red A-Amber G-Green
	4	DC12V DC24V AC110V~220V		0.51kg 0.51kg 0.61kg	R-Red A-Amber G-Green B-Blue
	5	DC12V DC24V AC110V~220V		0.59kg 0.59kg 0.69kg	R-Red A-Amber G-Green B-Blue W-White

Light source/buzzer current(based on 1 layer)			
Voltage condition	DC12V	DC24V	AC110-220V
Light source current (1 layer)	0.105A	0.070A	Max.0.060A
Buzzer current	0.040A	0.075A	Max.0.055A

• QTR70ML

Model number	Layer count	Voltage	Certificate	Weight	Color
QTR70ML Steady QTR70ML-BZ Steady/w built-in buzzer QTR70MLF Steady/Flashing QTR70MLF-BZ Steady/Flashing /w built-in buzzer QTRA70ML Steady QTRA70ML-BZ Steady/w built-in buzzer QTRA70MLF Steady/Flashing QTRA70MLF-BZ Steady/Flashing /w built-in buzzer	1	DC12V DC24V AC110V~220V	CE UL	0.42kg 0.42kg 0.52kg	R-Red
	2	DC12V DC24V AC110V~220V		0.56kg 0.56kg 0.66kg	R-Red G-Green
	3	DC12V DC24V AC110V~220V		0.77kg 0.77kg 0.87kg	R-Red A-Amber G-Green
	4	DC12V DC24V AC110V~220V		0.92kg 0.92kg 1.02kg	R-Red A-Amber G-Green B-Blue
	5	DC12V DC24V AC110V~220V		1.07kg 1.07kg 1.17kg	R-Red A-Amber G-Green B-Blue W-White

Light source/buzzer current(based on 1 layer)			
Voltage condition	DC12V	DC24V	AC110-220V
Light source current (1 layer)	0.105A	0.070A	Max.0.060A
Buzzer current	0.040A	0.075A	Max.0.055A

Dimensions

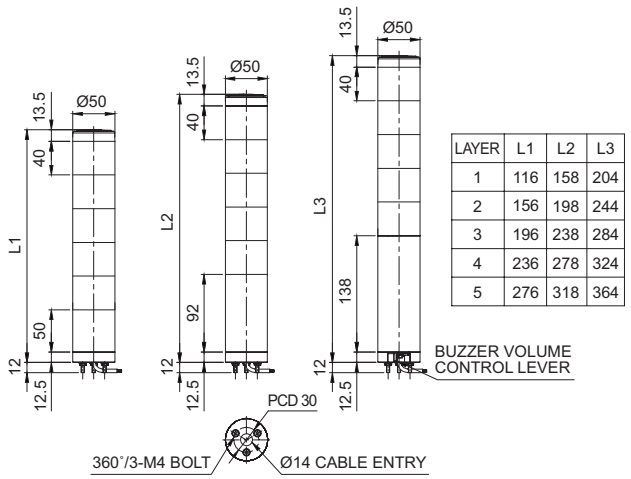
(Units : mm)

• QTR50(M)L

QTR50ML : DC
QTR50MLF : DC
QTR50ML-BZ : DC

QTR50ML : AC
QTR50MLF-BZ : DC

QTR50MLF : AC
QTR50ML-BZ : AC
QTR50MLF-BZ : AC

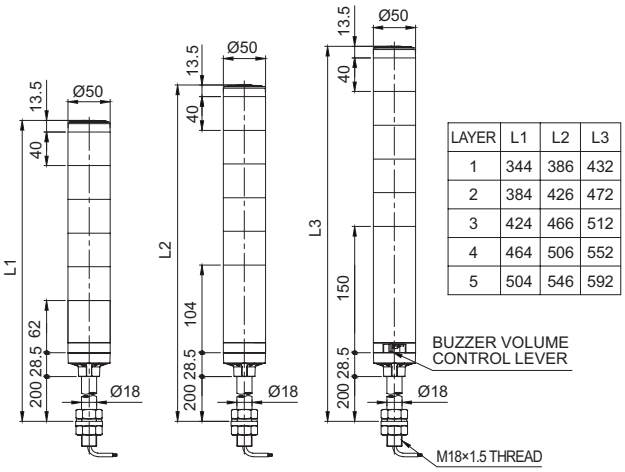


LAYER	L1	L2	L3
1	116	158	204
2	156	198	244
3	196	238	284
4	236	278	324
5	276	318	364

QTR50L : DC
QTR50LF : DC
QTR50L-BZ : DC

QTR50L : AC
QTR50LF-BZ : DC

QTR50LF : AC
QTR50L-BZ : AC
QTR50LF-BZ : AC



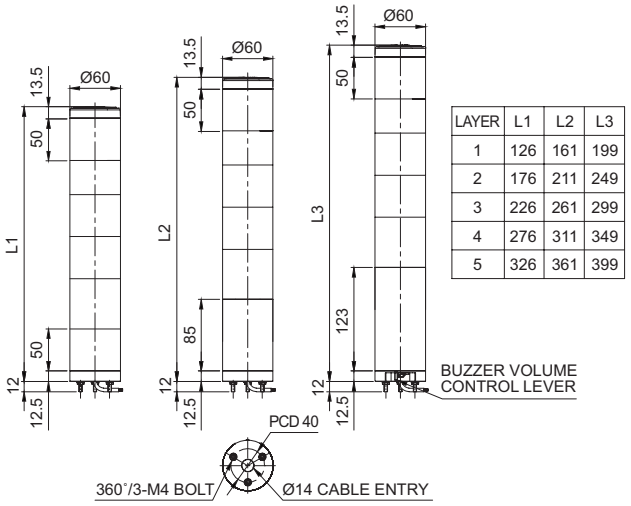
LAYER	L1	L2	L3
1	344	386	432
2	384	426	472
3	424	466	512
4	464	506	552
5	504	546	592

• QTR60(M)L

QTR60ML : DC
QTR60MLF : DC
QTR60ML-BZ : DC

QTR60ML : AC
QTR60MLF-BZ : DC

QTR60MLF : AC
QTR60ML-BZ : AC
QTR60MLF-BZ : AC

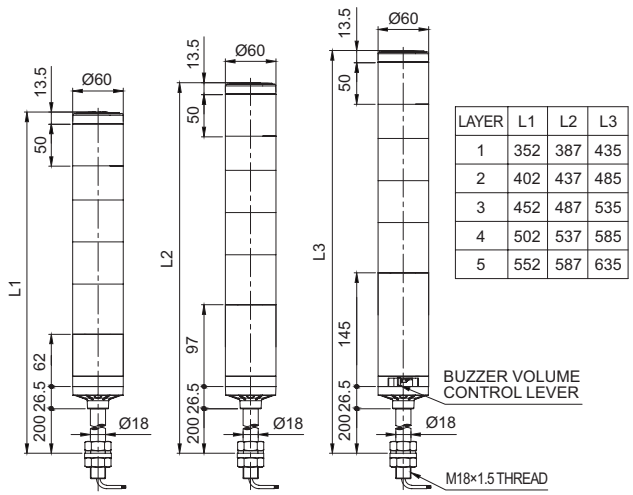


LAYER	L1	L2	L3
1	126	161	199
2	176	211	249
3	226	261	299
4	276	311	349
5	326	361	399

QTR60L : DC
QTR60LF : DC
QTR60L-BZ : DC

QTR60L : AC
QTR60LF-BZ : DC

QTR60LF : AC
QTR60L-BZ : AC
QTR60LF-BZ : AC



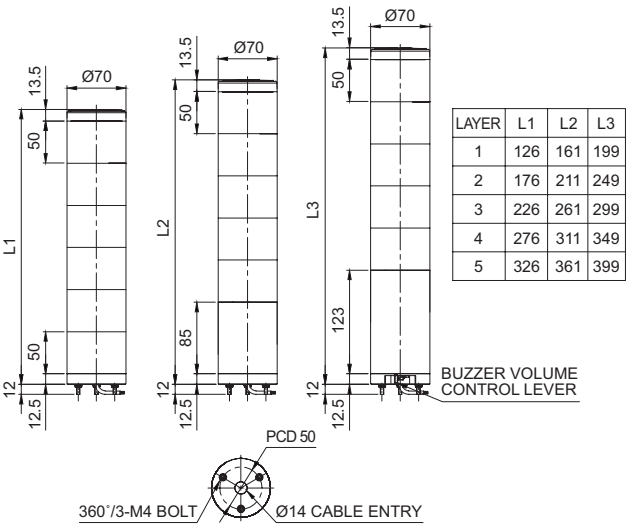
LAYER	L1	L2	L3
1	352	387	435
2	402	437	485
3	452	487	535
4	502	537	585
5	552	587	635

• QTR70(M)L

QTR70ML : DC
QTR70MLF : DC
QTR70ML-BZ : DC

QTR70ML : AC
QTR70MLF : AC
QTR70ML-BZ : AC
QTR70MLF-BZ : DC

QTR70MLF-BZ : AC

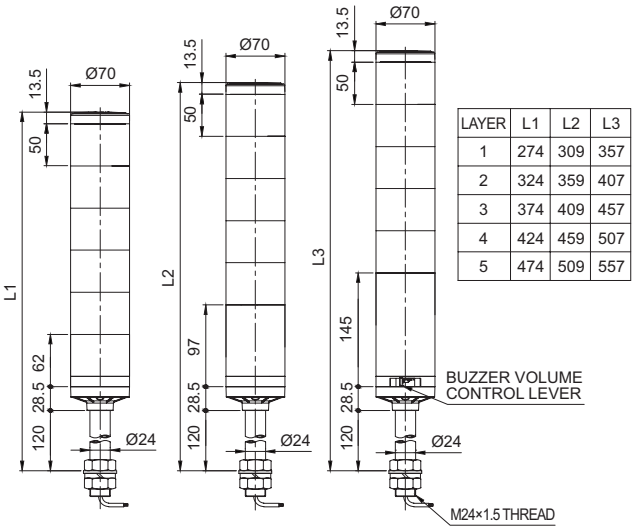


LAYER	L1	L2	L3
1	126	161	199
2	176	211	249
3	226	261	299
4	276	311	349
5	326	361	399

QTR70L : DC
QTR70LF : DC
QTR70L-BZ : DC

QTR70L : AC
QTR70LF : AC
QTR70L-BZ : AC
QTR70LF-BZ : DC

QTR70LF-BZ : AC

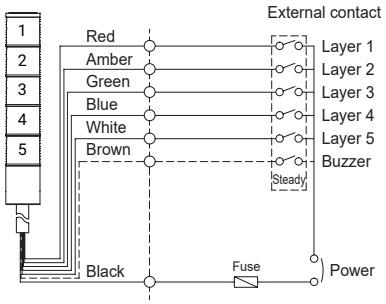
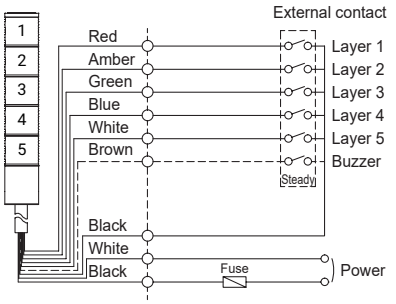
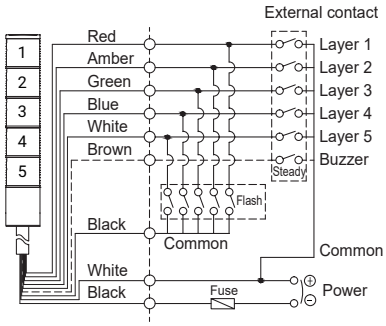
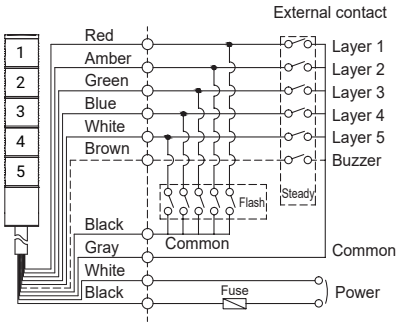


LAYER	L1	L2	L3
1	274	309	357
2	324	359	407
3	374	409	457
4	424	459	507
5	474	509	557

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.

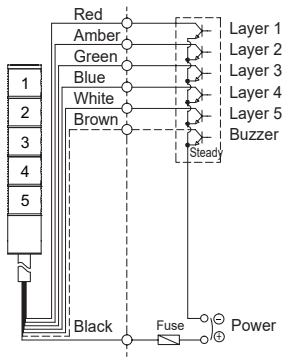
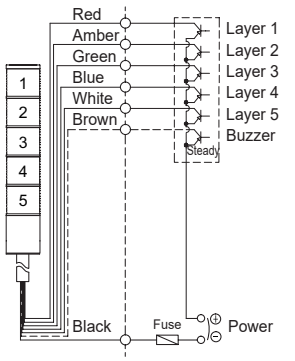
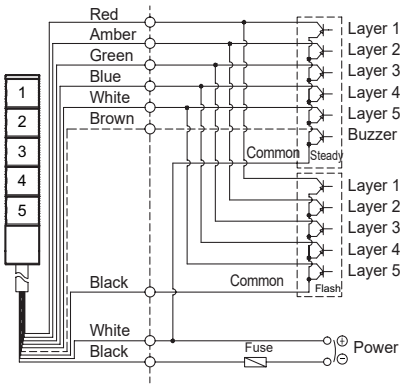
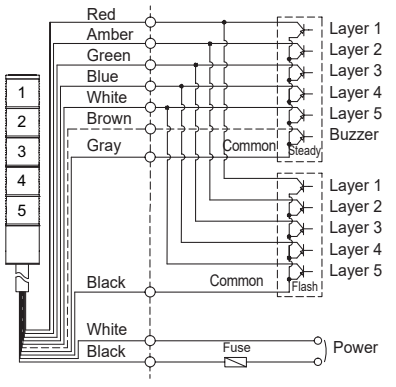
<table>
<tr><th></th><th>Wiring diagrams</th><th></th><th>Wiring diagrams</th></tr>
<tr><td>DC steady</td><td rowspan="2">
</td><td>AC steady</td><td rowspan="2">
</td></tr>
<tr><td>QTR50ML
QTR50L
QTR60ML
QTR60L
QTR70ML
QTR70L</td><td>QTR50ML
QTR50L
QTR60ML
QTR60L
QTR70ML
QTR70L</td></tr>
<tr><td></td><td>• QTR(A)□□(M)L - Refer to this diagram for buzzer type product
• QTR□□L
└ Lens diameter 50(50mm) : QTR50(M)L
60(60mm) : QTR60(M)L
70(70mm) : QTR70(M)L</td><td></td><td>• QTR(A)□□(M)L - Refer to this diagram for buzzer type product
• QTR□□L
└ Lens diameter 50(50mm) : QTR50(M)L
60(60mm) : QTR60(M)L
70(70mm) : QTR70(M)L</td></tr>
<tr><td>DC steady/flashing</td><td rowspan="2">
</td><td>AC steady/flashing</td><td rowspan="2">
</td></tr>
<tr><td>QTR50MLF
QTR50LF
QTR60MLF
QTR60LF
QTR70MLF
QTR70LF</td><td>QTR50MLF
QTR50LF
QTR60MLF
QTR60LF
QTR70MLF
QTR70LF</td></tr>
<tr><td></td><td>• QTR(A)□□(M)LF - Refer to this diagram for buzzer type product
• QTR□□LF
└ Lens diameter 50(50mm) : QTR50(M)LF
60(60mm) : QTR60(M)LF
70(70mm) : QTR70(M)LF</td><td></td><td>• QTR(A)□□(M)LF - Refer to this diagram for buzzer type product
• QTR□□LF
└ Lens diameter 50(50mm) : QTR50(M)LF
60(60mm) : QTR60(M)LF
70(70mm) : QTR70(M)LF</td></tr>
</table>

• DC steady type cable specification : External power/ signal line - UL1007 AWG22(0.3sq) 400mm

• AC steady, AC/DC steady/flashing type cable specification : External power line - UL1015 AWG18(0.75sq) × 2C 400mm
External signal line - UL1007 AWG22(0.3sq) 400mm

■ Wiring using transistor

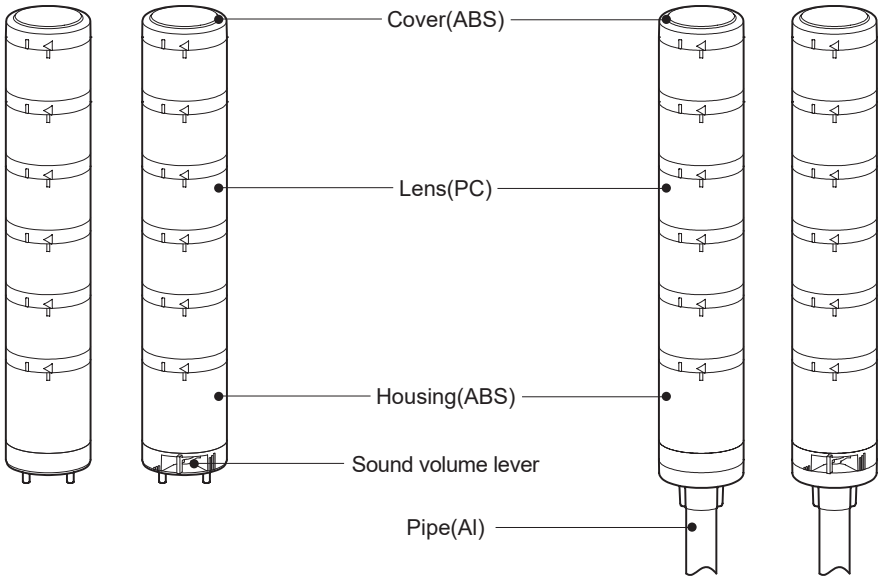
• When using a transistor, please choose between the NPN or PNP type transistor which best matches the voltage and product type, then connect them correctly according to the wiring diagrams below.

	Wiring diagrams
DC steady QTR50ML QTR50L QTR60ML QTR60L QTR70ML QTR70L	NPN-Transistor External transistor-NPN  PNP-Transistor External transistor-PNP  • QTR(A) □□ (M)L - Refer to this diagram for buzzer type product • QTR □□ L └ Lens diameter 50(50mm) : QTR50(M)L 60(60mm) : QTR60(M)L 70(70mm) : QTR70(M)L
DC steady/flashing QTR50MLF QTR50LF QTR60MLF QTR60LF QTR70MLF QTR70LF	External transistor-PNP  • QTR(A) □□ (M)LF - Refer to this diagram for buzzer type product • QTR □□ LF └ Lens diameter 50(50mm) : QTR50(M)LF 60(60mm) : QTR60(M)LF 70(70mm) : QTR70(M)LF
AC steady/flashing QTR50MLF QTR50LF QTR60MLF QTR60LF QTR70MLF QTR70LF	External transistor-PNP  • QTR(A) □□ (M)LF - Refer to this diagram for buzzer type product • QTR □□ LF └ Lens diameter 50(50mm) : QTR50(M)LF 60(60mm) : QTR60(M)LF 70(70mm) : QTR70(M)LF

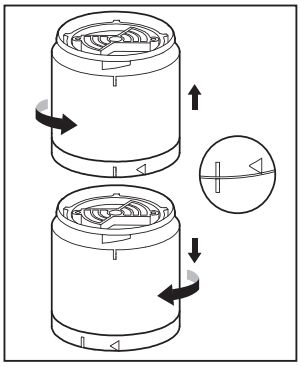
• DC steady type cable specification : External power/ signal line - UL1007 AWG22(0.3sq) 400mm

• AC steady, AC/DC steady/flashing type cable specification : External power line - UL1015 AWG18(0.75sq) × 2C 400mm
External signal line - UL1007 AWG22(0.3sq) 400mm

Parts Definition



How to replace the module

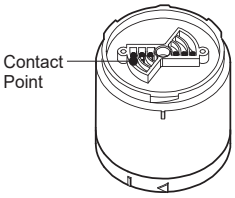


• Disassembling the module

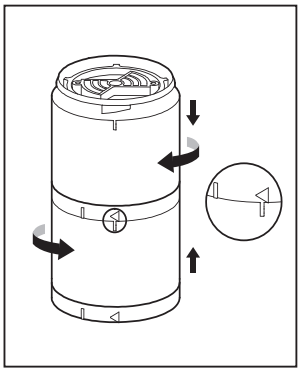
① Twist the upper module kit in a counterclockwise direction so the " " mark from both kits align.

② Disassemble by removing the upper module 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 the module

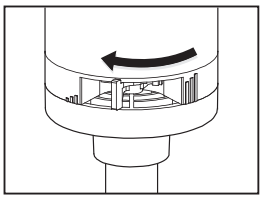
Put the two module together by aligning the upper module' "" mark and the lower module' "" mark together.

Lock the two kits by twisting the upper module kit in a clock wise direction so the upper module' "" mark aligns with the lower module' "" mark.

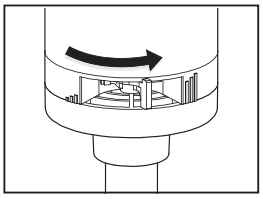
Installation Environment and Protection Rating

- This product is designed for indoor use with protection rating of IP65(standard type) or 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).

Buzzer Sound Volume Adjustment Instructions



Buzzer volume is reduced by sliding the volume control lever to the left as show in the diagram to the left.
(Min. 65±4dB/m)

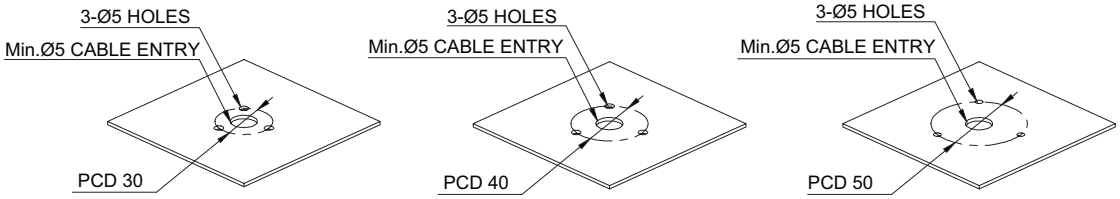


Raise/ Increase the buzzer volume by sliding the control lever to the right as shown in the diagram to the left.
(Max. 85±4dB/m)

Mounting Hole Specifications

■ QTR50M/ QTR60M/ QTR70M - Direct Mounting Type Model

① Machine holes on the mounting surface referring to the diagram below.



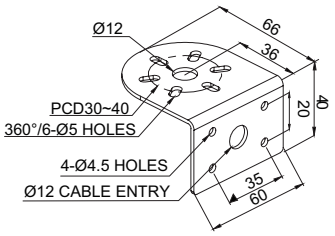
QTR50M QTR60M QTR70M

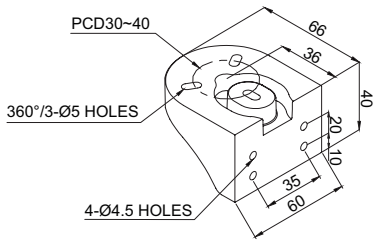
② Remove the flange nuts from bolts and place the product through the mounting surface holes.
③ Fasten the flange nuts on the opposite side of the mounting surface until the product is tightened securely.

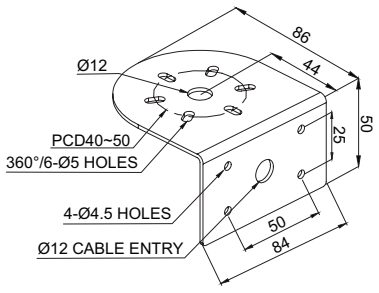
Mounting Accessories (Sold Separately)

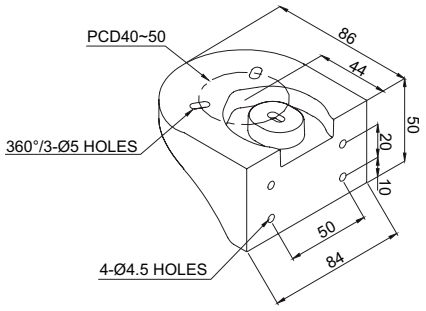
• Please refer to the dimensions below for installation of mounting brackets.

■ QTR50ML/ QTR60ML/ QTR70ML - Direct Mounting Type Model

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<tr><td>QTR50 series
QTR60 series</td><td>

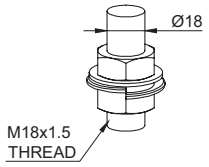
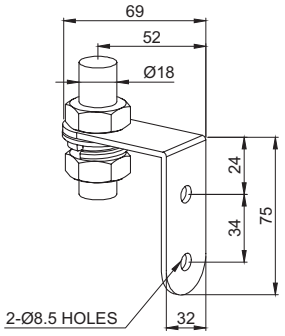
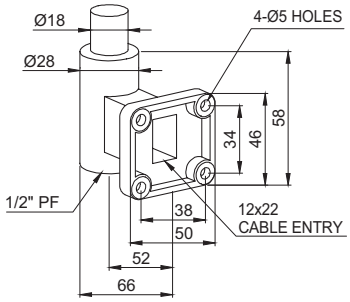
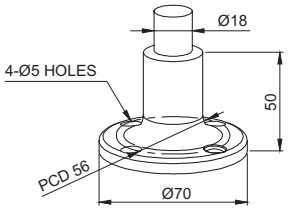
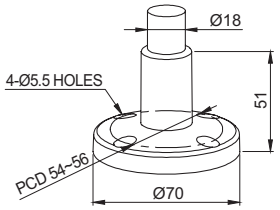
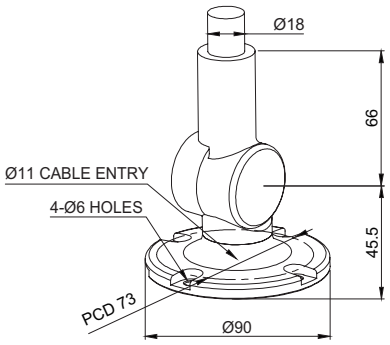
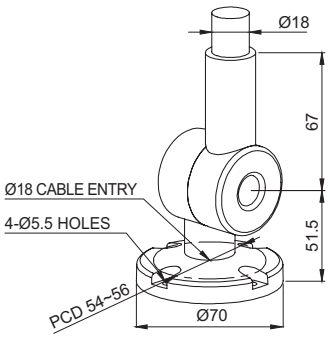
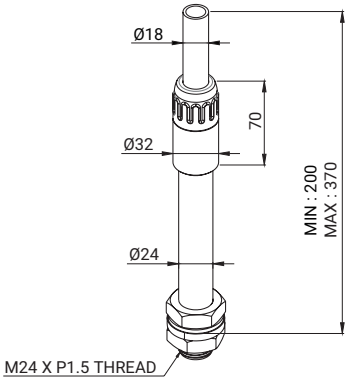
TWS45</td><td>

TWA45</td></tr>
<tr><td>QTR70 series</td><td>

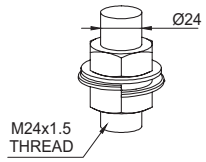
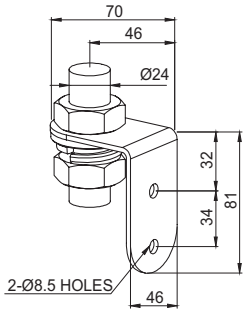
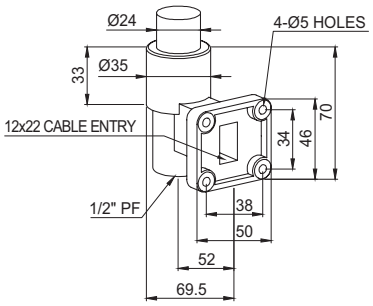
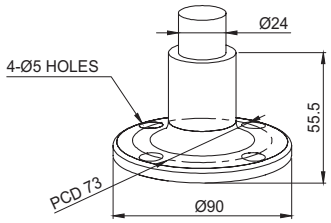
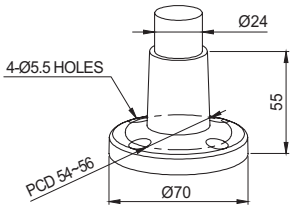
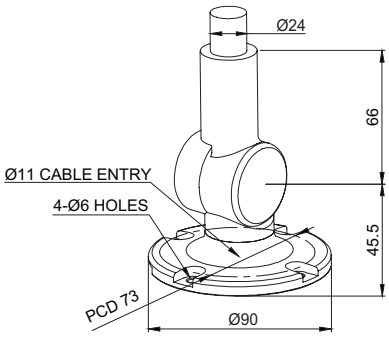
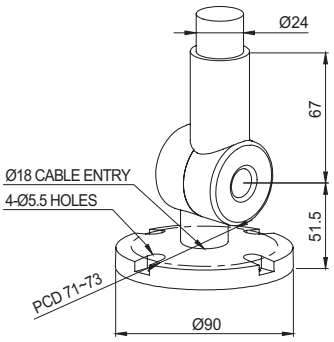
TWS80</td><td>

TWA80</td></tr>
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■ **QTR50L/ QTR60L - Pole Mounting Type Model**

	Dimensions	
QTR50 series QTR60 series	 18mm SCREW & NUT	 LB18
	 LW18	 SZ18
	 QZ18	 SL18
	 QL18	 SLB370

■ **QTR70L - Pole Mounting Type Model**

	Dimensions	
QTR70 series	 24mm SCREW & NUT	 LB24
	 LW24	 SZ24
	 QZ24	 SL24
	 QL24	

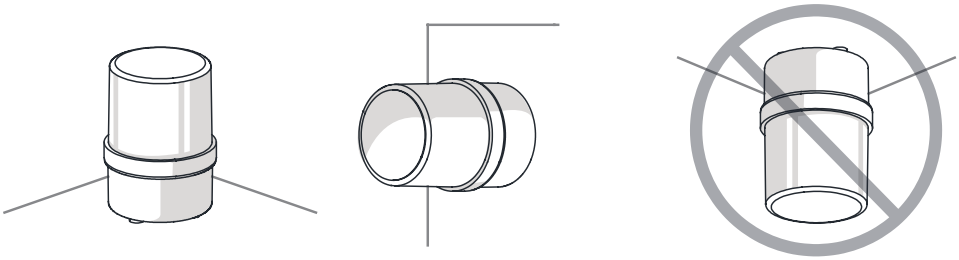
Product installation direction

■ **Install the product in accordance with the manual. Otherwise rainwater or moisture may penetrate into the product.**

· BEACON/SIGNALING LIGHT

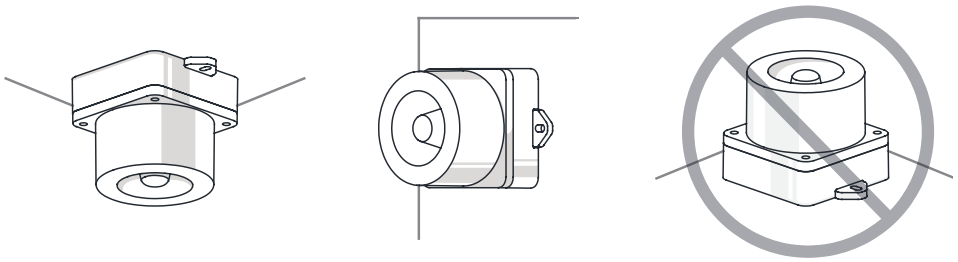
※ For products with a protection rating of less than IPX4, please install it vertically.

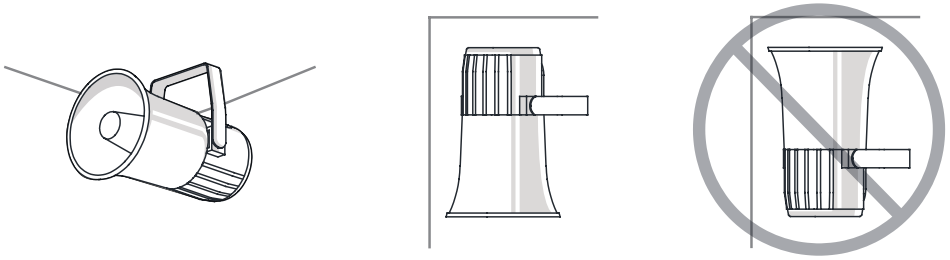
Power cord inlet part shall not be facing the sky.



· ELECTRONIC SOUNDER/SIGNAL HORN

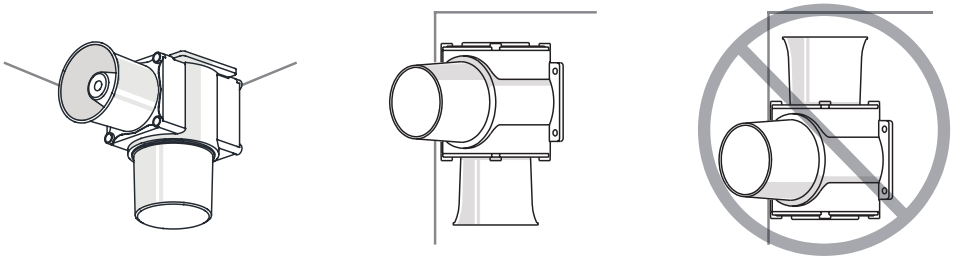
Sounder part shall not be facing the sky.





· HEAVY-DUTY & EXPLOSION PROOF SIGNALINGS

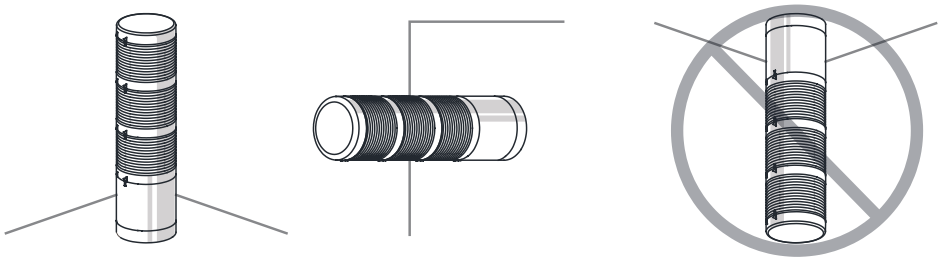
Sounder part shall not be facing the sky.



· SIGNAL TOWER LIGHTS

※ For products with a protection rating of less than IPX4, please install it vertically.

Power cord inlet part shall not be facing the sky.



⚠ For your safety

Specification and dimensions listed in this catalogue subject to change without notice for product quality improvement.
The newest product information is available on our website.(www.qlight.com)
Please read the instruction manual attached to the product carefully before installation and use.

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