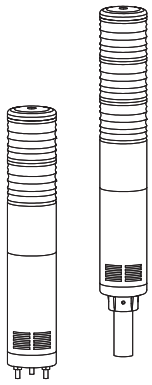
Ethernet LED Tower Light

ST45(M)L/ ST56(M)EL/ ST80(M)EL-ETN



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, 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

• ST45(M)L-ETN

ST45L-ETN-WS	-	3	-	24	-	RAG	-	LW18
[Model number]		[Layer]		[Voltage]		[Color]		[Mounting option]
• ST45L-ETN-BZ • ST45L-ETN-WS • ST45L-ETN-WM • ST45L-ETN-WA • ST45ML-ETN-BZ • ST45ML-ETN-WS • ST45ML-ETN-WM • ST45ML-ETN-WA		• Layer1-1 • Layer2-2 • Layer3-3 • Layer4-4 • Layer5-5		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		R-Red A-Amber G-Green B-Blue W-White		• (None) - Standard type • Mounting type - LB18 - LW18 - QZ18 - SZ18 - QL18 - SL18 - SLB370

• ST56(M)EL-ETN

ST56EL-ETN-WS	-	3	-	220	-	RAG	-	LW18
[Model number]		[Layer]		[Voltage]		[Color]		[Mounting option]
• ST56EL-ETN-BZ • ST56EL-ETN-WS • ST56EL-ETN-WM • ST56EL-ETN-WA • ST56MEL-ETN-BZ • ST56MEL-ETN-WS • ST56MEL-ETN-WM • ST56MEL-ETN-WA		• Layer1-1 • Layer2-2 • Layer3-3 • Layer4-4 • Layer5-5		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		R-Red A-Amber G-Green B-Blue W-White		• (None) - Standard type • Mounting type - LB18 - LW18 - QZ18 - SZ18 - QL18 - SL18 - SLB370

Please scan the QR code for more detailed product information.

www.qlight.com

Ordering Specifications

• ST80(M)EL-ETN

ST80EL-ETN-WS	-	3	-	220	-	RAG	-	LW24
[Model number]		[Layer]		[Voltage]		[Color]		[Mounting option]

- [Model number]
  - • ST80EL-ETN-BZ
  - • ST80EL-ETN-WS
  - • ST80EL-ETN-WM
  - • ST80EL-ETN-WA
  - • ST80MEL-ETN-BZ
  - • ST80MEL-ETN-WS
  - • ST80MEL-ETN-WM
  - • ST80MEL-ETN-WA
- [Layer]
  - • Layer1-1
  - • Layer2-2
  - • Layer3-3
  - • Layer4-4
  - • Layer5-5
- [Voltage]
  - • 12-DC12V
  - • 24-DC24V
  - • 110-AC110V
  - • 220-AC220V
- [Color]
  - R-Red
  - A-Amber
  - G-Green
  - B-Blue
  - W-White
- [Mounting option]
  - • (None)
    - Standard type
  - • Mounting type
    - LB24 - LW24
    - QZ24 - SZ24
    - QL24 - SL24

Product Specifications

• ST45(M)L-ETN

Model number	Layer	Voltage	Certificate	Color
ST45L-ETN ST45ML-ETN	1	DC12V DC24V AC110V AC220V	CE KC	R-Red
	2	DC12V DC24V AC110V AC220V		R-Red G-Green
	3	DC12V DC24V AC110V AC220V		R-Red A-Amber G-Green
	4	DC12V DC24V AC110V AC220V		R-Red A-Amber G-Green B-Blue
	5	DC12V DC24V AC110V AC220V		R-Red A-Amber G-Green B-Blue W-White

Light source/signal sound current(based on 1 layer)				
Voltage condition	DC12V	DC24V	AC110V	AC220V
Light source current (1 layer)	230mA	160mA	Max.60mA	Max.45mA
Signal sound current	350mA	230mA	Max.85mA	Max.55mA

※ KC compliant : AC220V

• ST56(M)EL-ETN

Model number	Layer	Voltage	Certificate	Color
ST56EL-ETN ST56MEL-ETN	1	DC12V DC24V AC110V AC220V	CE KC	R-Red
	2	DC12V DC24V AC110V AC220V		R-Red G-Green
	3	DC12V DC24V AC110V AC220V		R-Red A-Amber G-Green
	4	DC12V DC24V AC110V AC220V		R-Red A-Amber G-Green B-Blue
	5	DC12V DC24V AC110V AC220V		R-Red A-Amber G-Green B-Blue W-White

Light source/signal sound current(based on 1 layer)				
Voltage condition	DC12V	DC24V	AC110V	AC220V
Light source current (1 layer)	240mA	165mA	Max.60mA	Max.50mA
Signal sound current	350mA	230mA	Max.85mA	Max.55mA

※ KC compliant : AC220V

• **ST80(M)EL-ETN**

Model number	Layer	Voltage	Certificate	Color
ST80EL-ETN ST80MEL-ETN	1	DC12V DC24V AC110V AC220V		R-Red
	2	DC12V DC24V AC110V AC220V		R-Red G-Green
	3	DC12V DC24V AC110V AC220V		R-Red A-Amber G-Green
	4	DC12V DC24V AC110V AC220V		R-Red A-Amber G-Green B-Blue
	5	DC12V DC24V AC110V AC220V		R-Red A-Amber G-Green B-Blue W-White

Light source/signal sound current(based on 1 layer)				
Voltage condition	DC12V	DC24V	AC110V	AC220V
Light source current (1 layer)	260mA	180mA	Max.70mA	Max.50mA
Signal sound current	350mA	230mA	Max.85mA	Max.55mA

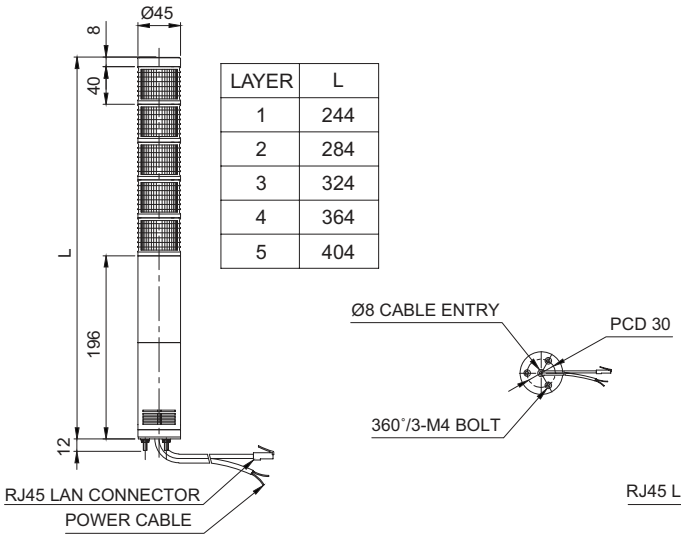
※ KC compliant : AC220V

• Protection rating : IP23
• Ambient operating temperature : -30°C to + 50°C
• LED Module Standard Operation : 2 layers will operate at the same time

Dimensions

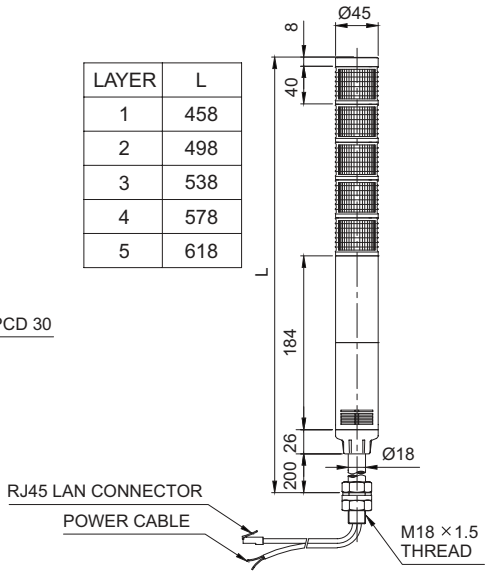
(Units : mm)

ST45ML-ETN



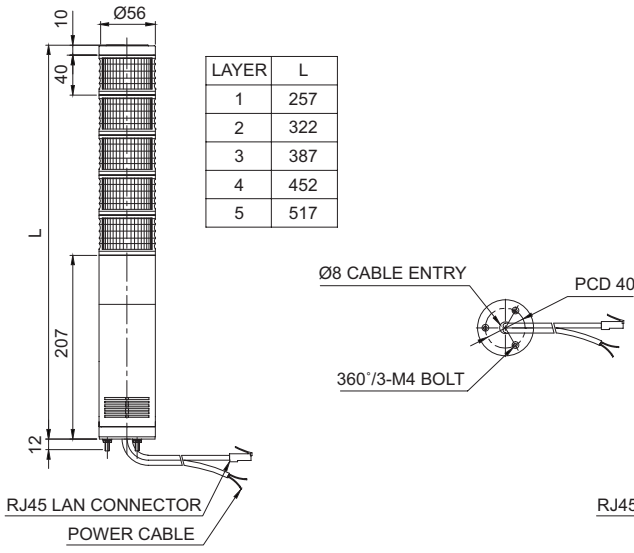
LAYER	L
1	244
2	284
3	324
4	364
5	404

ST45L-ETN



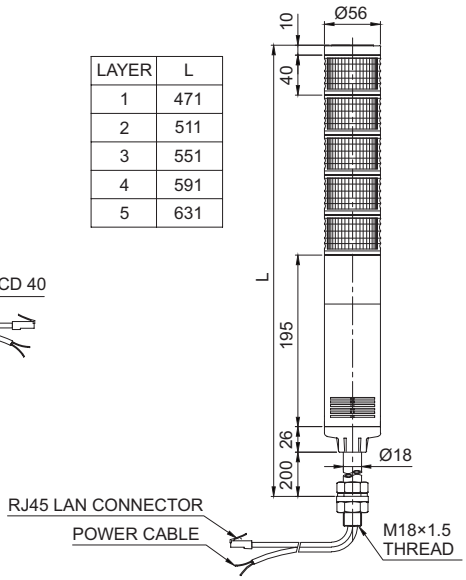
LAYER	L
1	458
2	498
3	538
4	578
5	618

ST56MEL-ETN



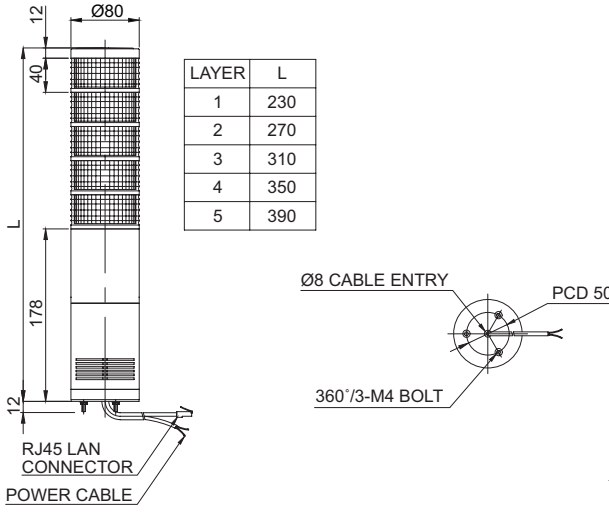
LAYER	L
1	257
2	322
3	387
4	452
5	517

ST56EL-ETN



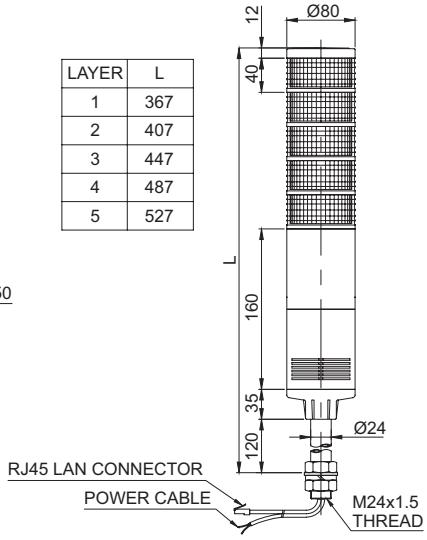
LAYER	L
1	471
2	511
3	551
4	591
5	631

ST80MEL-ETN



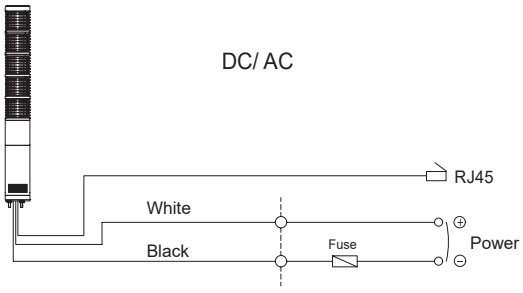
LAYER	L
1	230
2	270
3	310
4	350
5	390

ST80EL-ETN



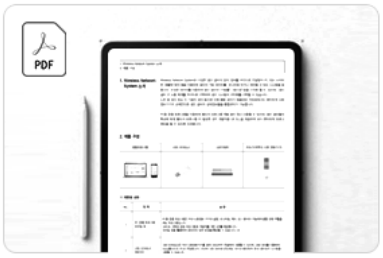
LAYER	L
1	367
2	407
3	447
4	487
5	527

Wiring Instructions



- Connect RJ45 connector that is connected to UTP cable to Ethernet port of a PC or a router.
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- For AC type, power cable is equipped with the product.
- UTP Cable : Category 5 cable

Applying the Ethernet Device



Manual & Library

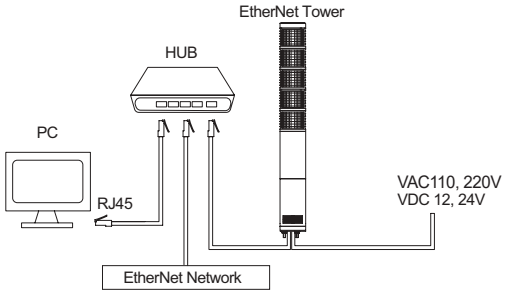


Test Program

Please refer to the manual posted on the website for instructions on how to use the product.

Product Installation

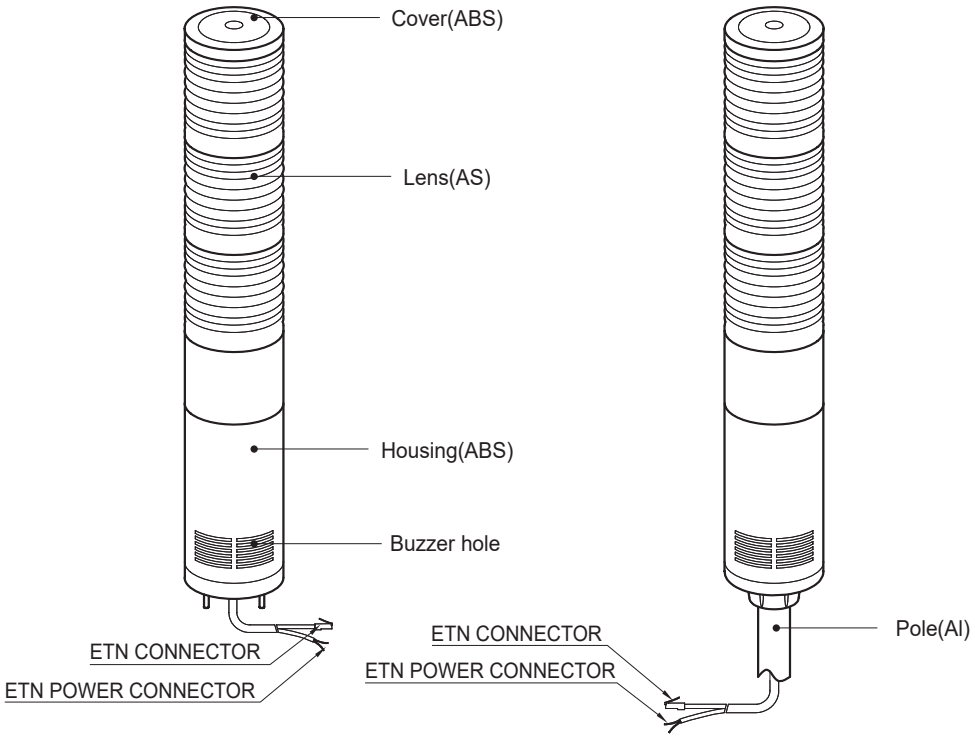
Installation wiring instructions



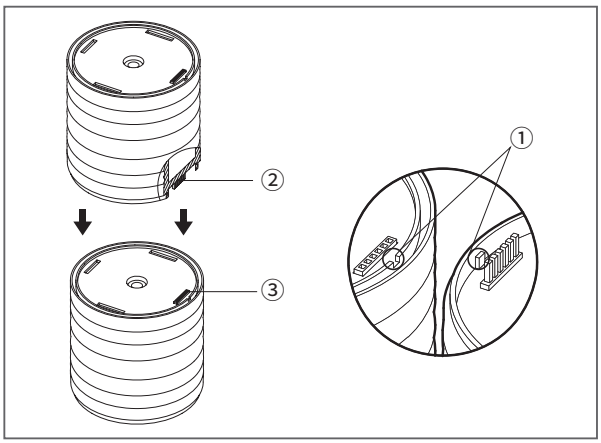
■ Test Ethernet LED Tower Light

1. Please connect LAN cable of the tower light to the router so that the tower light can access Ethernet network by referring left diagram.
2. Please be sure that the power supply shall meet the product specification accordingly.

Parts Definition



How to Change Lens Kit



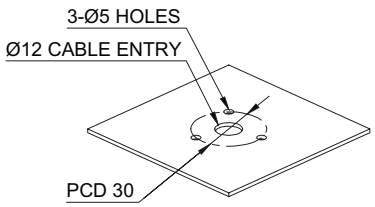
- When rearranging or replacing the lens kits, please be aware of the contact point ① and the connector pin ② marked in the diagram on the left.
- Press down to assemble the lens kits while making sure that connector pin ② and connector ③ aligns correctly.
- Please make sure that the rubber spacer placed on the top of each lens kit is tightly secured to the bottom of the other lens kit.

※ Caution when lens kit

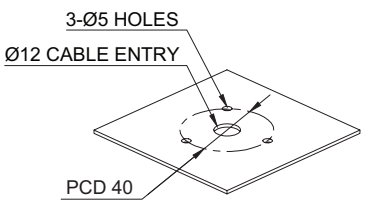
- Lens kits are connected with connector pins each other. Bad connection may be experienced when the connector pins are touched with a foreign substance.
- If the lens kits are not turned on or not flashed after lens kits replacement, please make sure status of lens kit connection.

Mounting Hole Specifications

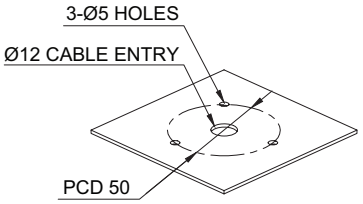
① Machine holes on the mounting surface referring to the diagram below.



ST45ML-ETN



ST56MEL-ETN



ST80MEL-ETN

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.

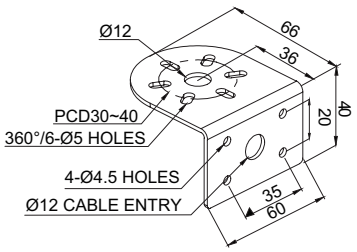
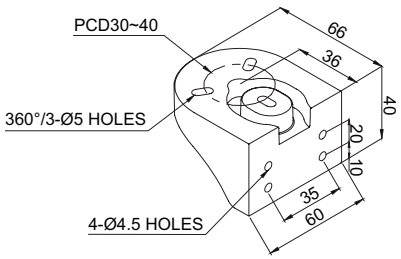
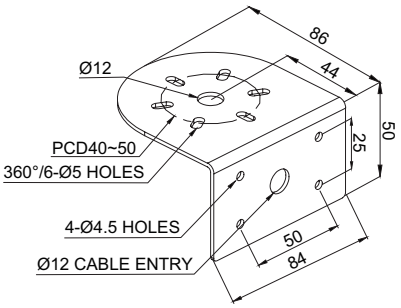
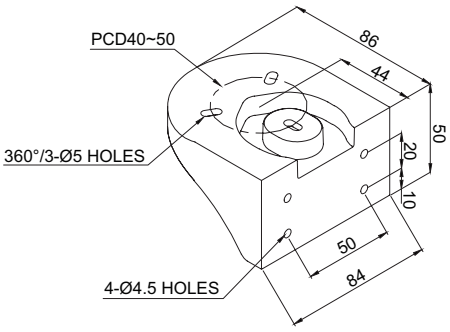
Installation Environment and Protection Rating

- This product is designed for use with protection rating of IP23.
- If the product is installed in locations that subject it to excessive dust or water other than the designated IP protection rating indicated(IP23), it may cause malfunction or damage to the product.
- For further information, please visit our website (www.qlight.com).

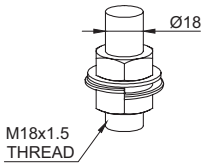
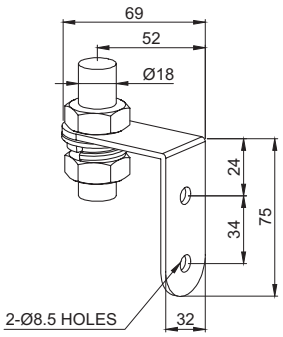
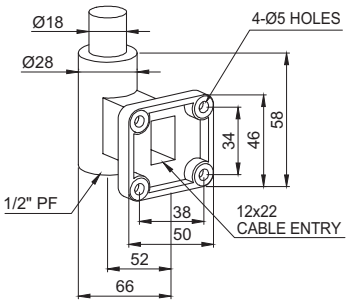
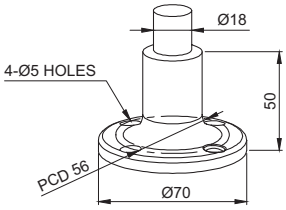
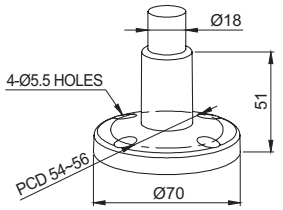
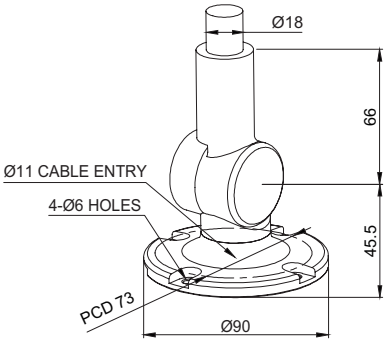
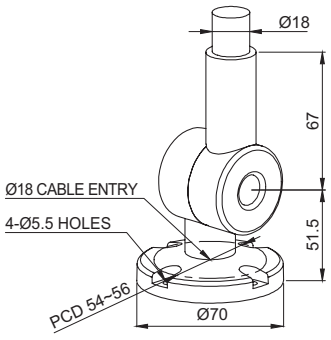
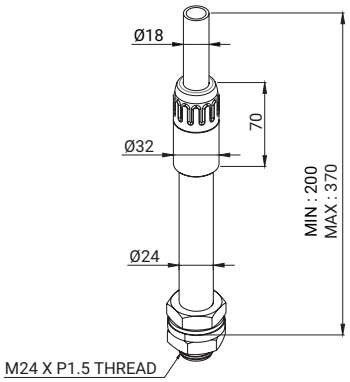
Mounting Accessories (Sold Separately)

- Please refer to the dimensions below for installati on of mounting brackets

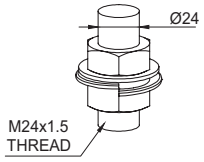
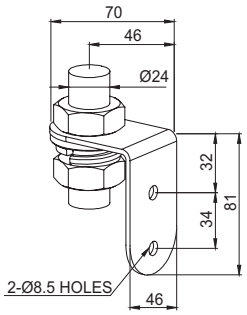
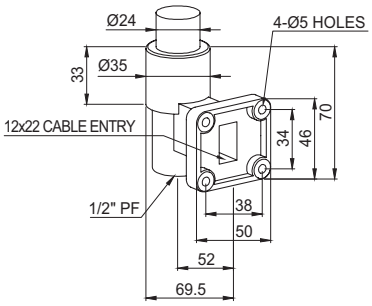
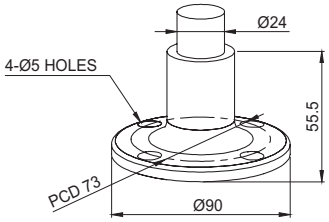
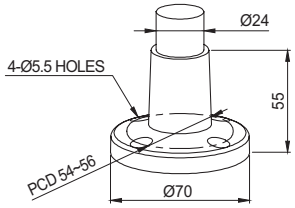
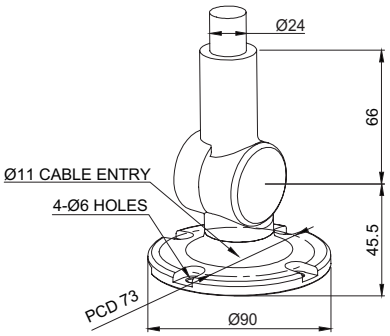
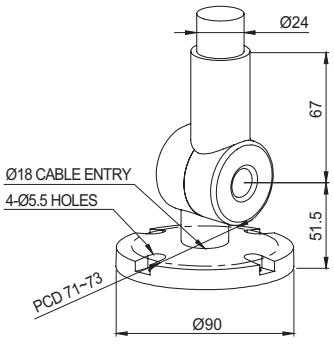
■ **ST45ML-ETN/ ST56MEL-ETN/ ST80MEL-ETN - Direct Mounting Type Model**

	Dimensions	
ST45ML-ETN ST56MEL-ETN	 TWS45	 TWA45
ST80MEL-ETN	 TWS80	 TWA80

■ ST45L-ETN/ ST56EL-ETN - Pole Mounting Type Model

	Dimensions	
ST45L-ETN ST56EL-ETN	 18mm SCREW & NUT	 LB18
	 LW18	 SZ18
	 QZ18	 SL18
	 QL18	 SLB370

■ ST56EL-ETN - Pole Mounting Type Model

	Dimensions	
ST80EL-ETN	 24mm SCREW & NUT	 LB24
	 LW24	 SZ24
	 QZ24	 SL24
	 QL24	

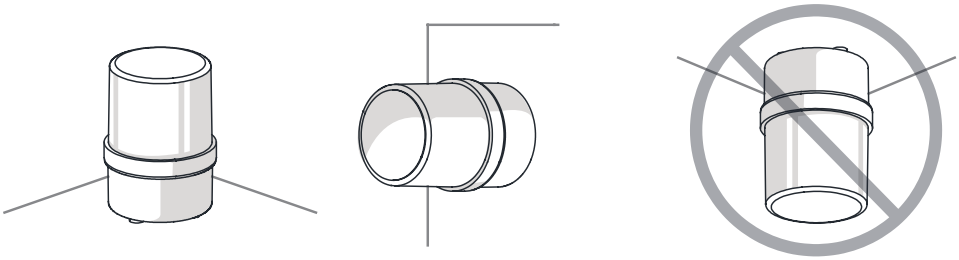
Product installation direction

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

· BEACON/SIGNALING LIGHT

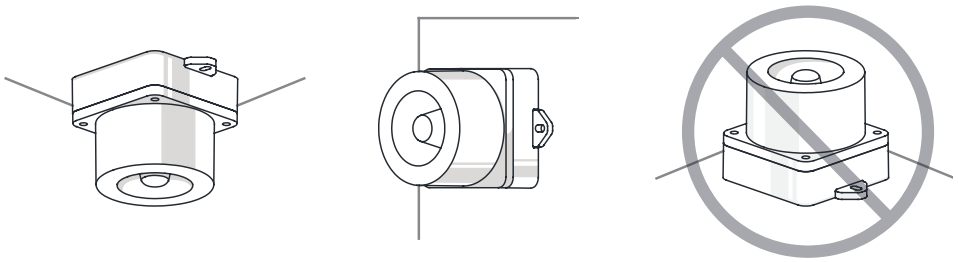
※ For products with a protection rating of less than IPX4, please install it vertically.

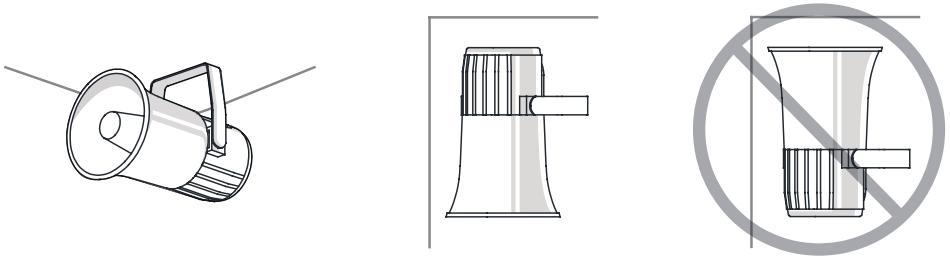
Power cord inlet part shall not be facing the sky.



· ELECTRONIC SOUNDER/SIGNAL HORN

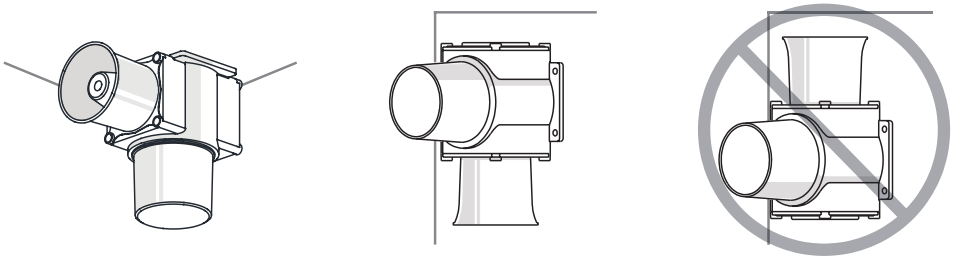
Sounder part shall not be facing the sky.





· HEAVY-DUTY & EXPLOSION PROOF SIGNALINGS

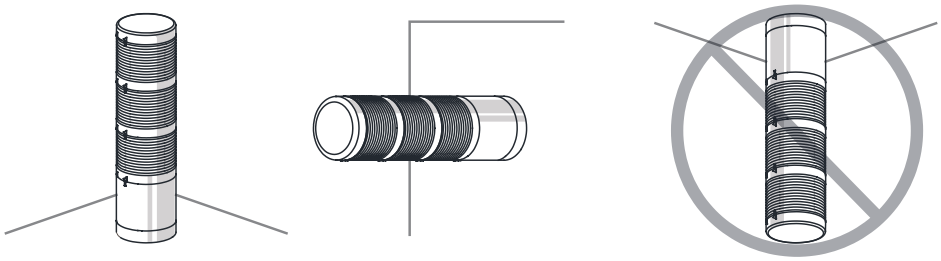
Sounder part shall not be facing the sky.



· 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.



MEMO

⚠ 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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