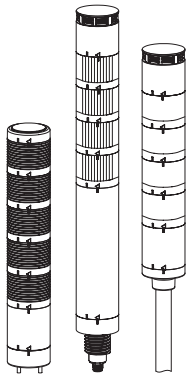
Modular LED signal tower light with built-in terminal

MTG50/ MTC50/ MTR50 Series



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

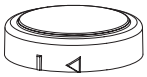
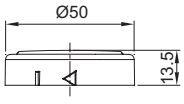
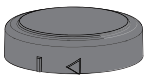
Failure to follow the proper instructions may cause damage to property, the product, or malfunction of the product that would void the warranty.

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

• Cover

(Units : mm)

Shape	Parts Name	Model No	Color	Weight	Common Specifications
	MTG50 cover	MG50-CV	Ivory	0.01kg	• Material: ABS • Protection ratings with assemble: IP65 • Product size: Ø50 X 14 
	MTG50 cover	MG50-CV-SV	Silver	0.01kg	
	MTG50 cover	MG50-CV-BK	Black	0.01kg	

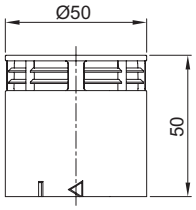
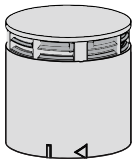
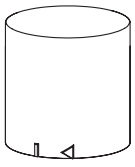
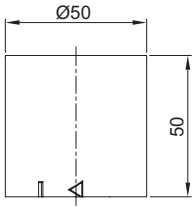
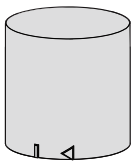
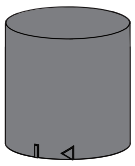
Please scan the QR code for more detailed product information.

www.qlight.com

Ordering Specifications

• Buzzer module

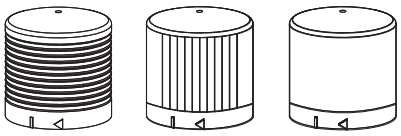
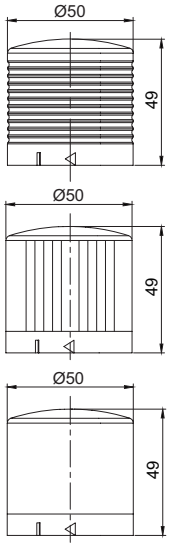
(Units : mm)

Shape	Parts Name	Model No	Color	Specification		Volume(dB)	Weight	Common Specifications
				Voltage	Current			
	MTG50-Standard buzzer module	MG50-BZ-24	Ivory	DC24V	90mA	Max.90dB	0.05kg	• Material: ABS • Protection ratings with assemble : Non-Waterproof • Product size: Ø50 X 50 
	MTG50-High-volume buzzer module	MG50-HBZ-24	Ivory	DC24V	90mA	Max.100d	0.05kg	
	MTG50-Standard buzzer module	MG50-BZ-24-SV	Silver	DC24V	90mA	Max.90dB	0.05kg	
	MTG50-High-volume buzzer module	MG50-HBZ-24-SV	Silver	DC24V	90mA	Max.100d	0.05kg	
	MTG50-Standard buzzer module	MG50-BZ-24-BK	Black	DC24V	90mA	Max.90dB	0.05kg	
	MTG50-High-volume buzzer module	MG50-HBZ-24-BK	Black	DC24V	90mA	Max.100d	0.05kg	
	MTG50-Waterproof buzzer module	MG50-WBZ-24	Ivory	DC24V	90mA	Max.85dB	0.05kg	• Material: ABS • Protection ratings with assemble: IP65 • Product size: Ø50 X 50 
	MTG50-Waterproof buzzer module	MG50-WBZ-24-SV	Silver	DC24V	90mA	Max.85dB	0.05kg	
	MTG50-Waterproof buzzer module	MG50-WBZ-24-BK	Black	DC24V	90mA	Max.85dB	0.05kg	

Ordering Specifications

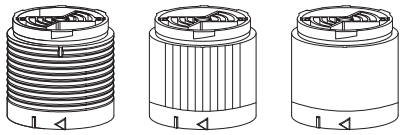
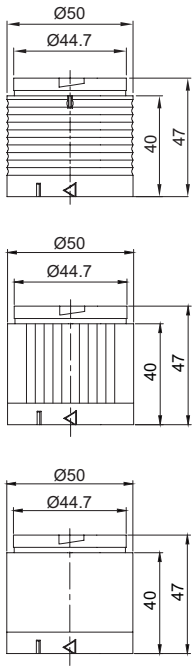
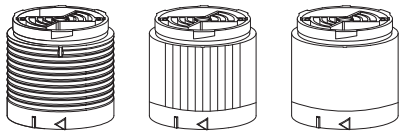
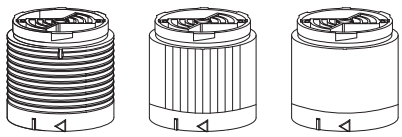
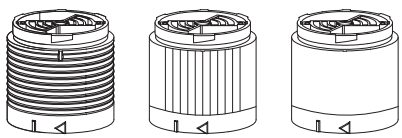
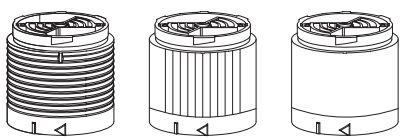
• Cover integrated Lens option is available

(Units : mm)

Shape			Model No	Color	Specification		Weight	Common Specifications
MG	MC	MR			Voltage	Current		
			MGA50-R-24 MCA50-R-24 MRA50-R-24	Red	DC24V	70mA	0.05kg	• Material: PC • Protection ratings with assemble: IP65 • Product size: Ø50 X 49 

• LED Steady/Flashing Module

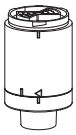
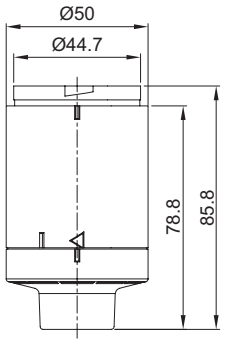
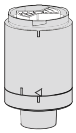
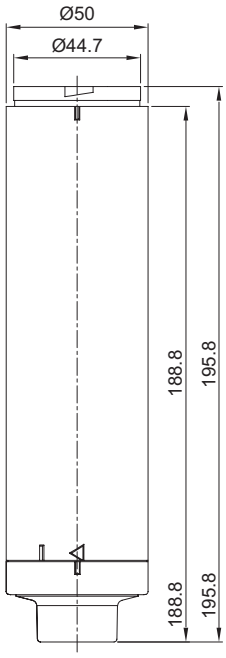
(Units : mm)

Shape			Model No	Color	Specification		Weight	Common Specifications
MG	MC	MR			Voltage	Current		
			MG50-R-24 MC50-R-24 MR50-R-24	Red	DC24V	70mA	0.05kg	• Material: PC • Protection ratings with assemble: IP65 • Product size: Ø50 X 47 
			MG50-A-24 MC50-A-24 MR50-A-24	Amber	DC24V	70mA	0.05kg	
			MG50-G-24 MC50-G-24 MR50-G-24	Green	DC24V	70mA	0.05kg	
			MG50-B-24 MC50-B-24 MR50-B-24	Blue	DC24V	70mA	0.05kg	
			MG50-W-24 MC50-W-24 MR50-W-24	White	DC24V	70mA	0.05kg	

Ordering Specifications

• Base module(Pole mount type)

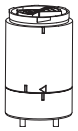
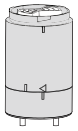
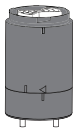
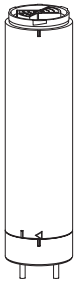
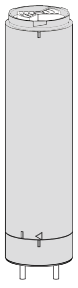
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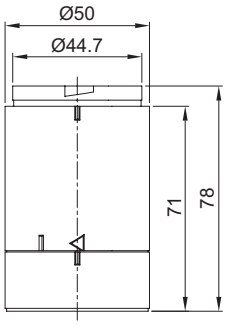
Shape	Parts Name	Model No	Color	Specification		Weight	Common Specifications
				Voltage	Current		
	MTG50-Pole type base module-DC	MG50-BS-DC	Ivory	DC24V	400mA	0.07kg	• Material: ABS • Protection ratings with assemble: IP65 • Product size: Ø50 X 86 
	MTG50-Pole type base module-DC	MG50-BS-DC-SV	Silver	DC24V	400mA	0.07kg	
	MTG50-Pole type base module-DC	MG50-BS-DC-BK	Black	DC24V	400mA	0.07kg	
	MTG50-Pole type base module-AC	MG50-BS-AC	Ivory	AC110-220V	Max.250mA	0.22kg	• Material: ABS • Protection ratings with assemble: IP65 • Product size: Ø50 X 196 
	MTG50-Pole type base module-AC	MG50-BS-AC-SV	Silver	AC110-220V	Max.250mA	0.22kg	
	MTG50-Pole type base module-AC	MG50-BS-AC-BK	Black	AC110-220V	Max.250mA	0.22kg	

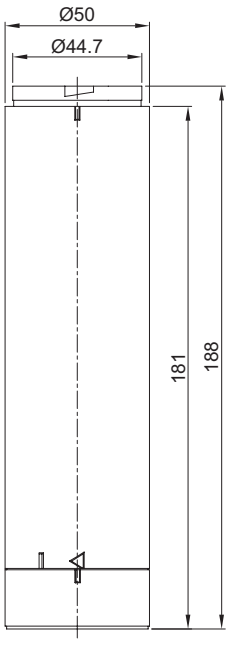
Ordering Specifications

• Base module(Self stand type)

(Units : mm)

Shape	Parts Name	Model No	Color	Specification		Weight	Common Specifications
				Voltage	Current		
	MTG50-Self stand base module-DC	MG50-MBS-DC	Ivory	DC24V	400mA	0.07kg	• Material: ABS • Protection ratings with assemble: IP65 • Product size: Ø50 X 78
	MTG50-Self stand base module-DC	MG50-MBS-DC-SV	Silver	DC24V	400mA	0.07kg	
	MTG50-Self stand base module-DC	MG50-MBS-DC-BK	Black	DC24V	400mA	0.07kg	
	MTG50-Self stand base module-AC	MG50-MBS-AC	Ivory	AC110-220V	Max.250mA	0.23kg	• Material: ABS • Protection ratings with assemble: IP65 • Product size: Ø50 X 188
	MTG50-Self stand base module-AC	MG50-MBS-AC-SV	Silver	AC110-220V	Max.250mA	0.23kg	
	MTG50-Self stand base module-AC	MG50-MBS-AC-BK	Black	AC110-220V	Max.250mA	0.23kg	

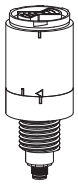
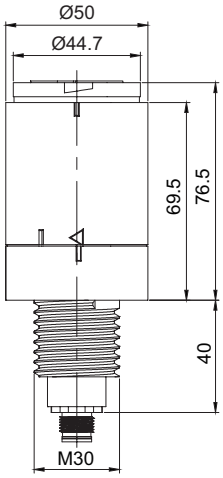
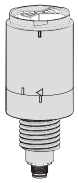
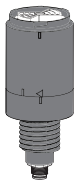




Ordering Specifications

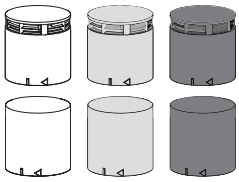
• Base module(M12 CONNECTOR type)

(Units : mm)

Shape	Parts Name	Model No	Color	Specification		Weight	Common Specifications
				Voltage	Current		
	MTG50-M12 CONNECTOR type base module-DC	MG50-BS-DC-M12	Ivory	DC24V	400mA	0.08kg	• Material: ABS • Protection ratings with assemble: IP65 • Product size: Ø50 X 77 
	MTG50-M12 CONNECTOR type base module-DC	MG50-BS-DC-M12-SV	Silver	DC24V	400mA	0.08kg	
	MTG50-M12 CONNECTOR type base module-DC	MG50-BS-DC-M12-BK	Black	DC24V	400mA	0.08kg	

How to configure module

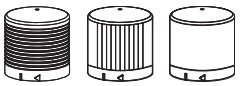
• Model No/ Shape



MG50-BZ/MG50-HBZ/MG50-WBZ



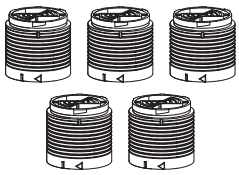
MG50-CV



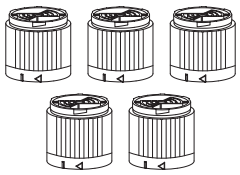
MGA50-R/MCA50-R/MRA50-R

• Assembly step

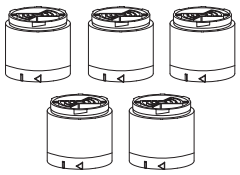
Assembly Step 1
- Choose from cover, buzzer module, and cover lens integrated module
- Please refer to detailed module specification in order to find out model number



MG50-R/A/G/B/W

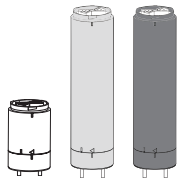


MC50-R/A/G/B/W

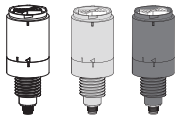


MR50-R/A/G/B/W

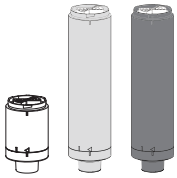
Assembly Step 2
- Select among MTG, MTC, MTR LED module
- When the buzzer module is selected in the first stage of module assembly, only 4 levels of R/A/G/B colors can be used for the LED module (W color cannot be used)
- If the operating voltage is AC type, the LED module uses DC24V type.
- When selecting MTR LED module, please choose black base module
- Please refer to detailed module specification in order to find out model number



MG50-MBS-DC
MG50-MBS-AC



MG50-BS-DC-M12



MG50-BS-DC
MG50-BS-AC

Assembly Step 3
- Please select among direct mount, Pole mount, and M12-connector type base module
- M12 cable connector will only apply for DC24 module
- Please refer to detailed module specification in order to find out model number



LB32

Direct mount

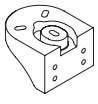


PE18

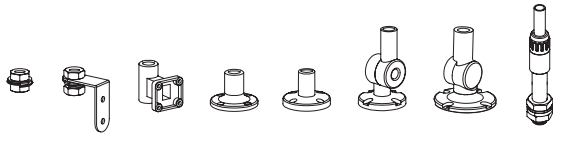
Assembly Step 4
- In case of using Pole type based module at the Assembly Step 3, you should select a Pole. The Pole can be provided with diverse length.
- Please refer to detailed module specification in order to find out model number



TWS45



TWA45



Standard LB18 LW18 QZ18 SZ18 QL18 SL18 SLB370

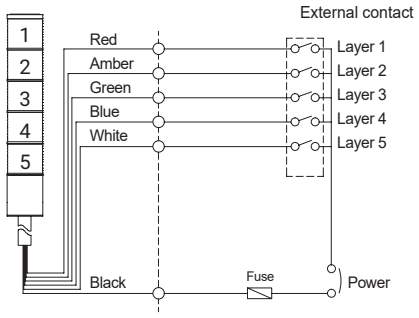
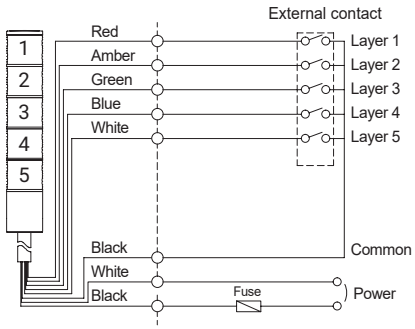
Assembly Step 5
- Please select appropriate mounting bracket in accordance with your needs
- Please refer to detailed module specification in order to find out model number

Wiring Instructions

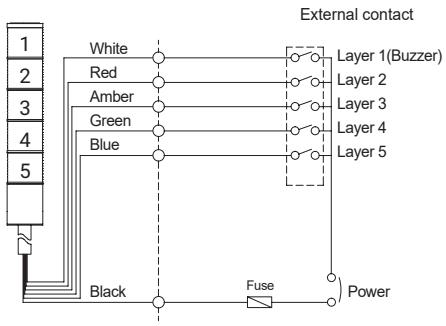
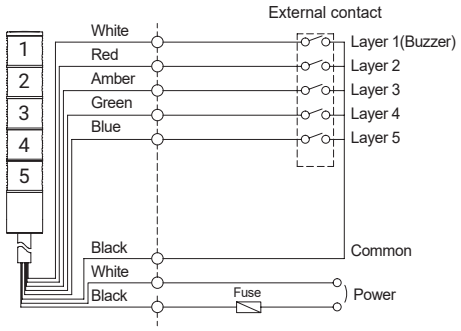
■ Wiring using external contact

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

• In case of buzzer NOT applied

	Wiring diagrams		Wiring diagrams
DC Steady/ Flashing		AC Steady/ Flashing	
MTG50 MTC50 MTR50		MTG50 MTC50 MTR50	

• In case of buzzer applied

	Wiring diagrams		Wiring diagrams
DC Steady/ Flashing		AC Steady/ Flashing	
MTG50 MTC50 MTR50		MTG50 MTC50 MTR50	

■ Recommended signal line information

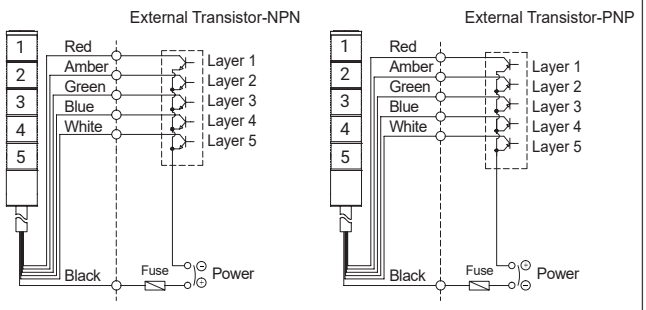
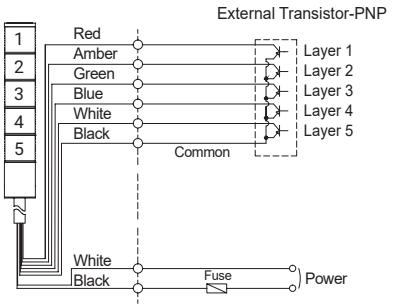
• External power line - UL1015 AWG18(0.75sq) × 2C 400mm,
• External signal line - UL1007 AWG22(0.3sq) 400mm
• LED light source tower lamp can be connected using external contacts and transistors

Wiring Instructions

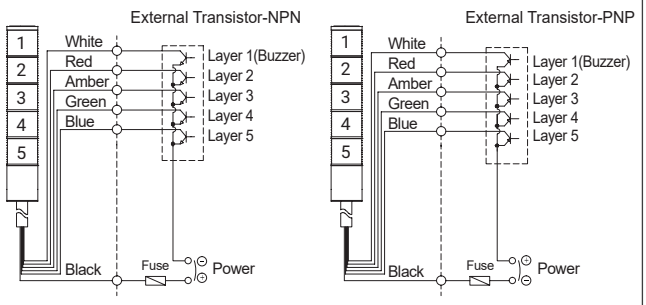
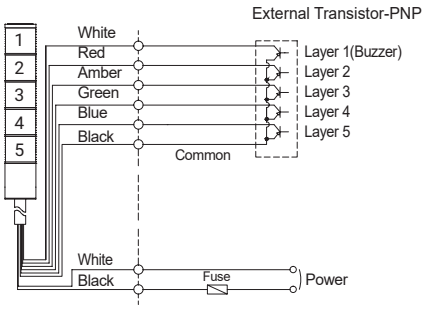
■ Wiring using transistor

• 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.

• In case of buzzer NOT applied

	Wiring diagrams		Wiring diagrams
DC Steady/ Flashing		AC Steady/ Flashing	
MTG50 MTC50 MTR50		MTG50 MTC50 MTR50	

• In case of buzzer applied

	Wiring diagrams		Wiring diagrams
DC Steady/ Flashing		AC Steady/ Flashing	
MTG50 MTC50 MTR50		MTG50 MTC50 MTR50	

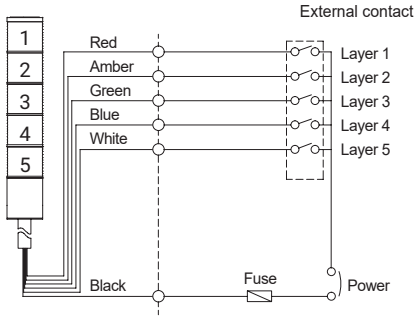
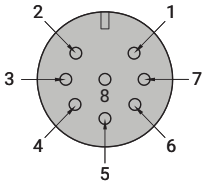
■ Recommended signal line information

• External power line - UL1015 AWG18(0.75sq) × 2C 400mm,
• External signal line - UL1007 AWG22(0.3sq) 400mm
• LED light source tower lamp can be connected using external contacts and transistors

Wiring Instructions

■ Wiring diagrams(In case of M12 connector type model)

- M12 connector module can be supplied DC type only. (It same goes for External contact/Transistor contact)
- Please wire the product by referring below PIN-MAP.

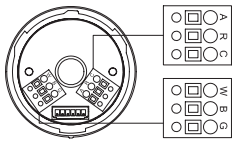
	Wiring diagrams	Wiring diagrams(PIN-MAP)
DC Steady/ Flashing MTG50-M12 MTC50-M12 MTR50-M12		

PIN	DESCRIPTION
1	Layer1
2	Layer2
3	Layer3
4	Layer4
5	Layer5
6	N/A
7	N/A
8	POWER(-)

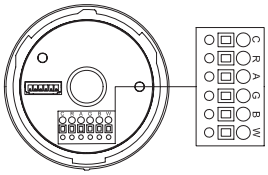
■ Wiring diagrams(Terminal Wiring Information)

- Please refer to wiring diagram for further information.

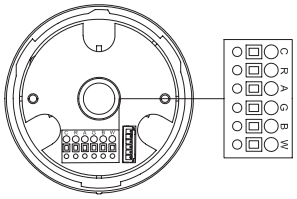
Terminal block wiring method(DC Type)



MTG/MTC/MTR50



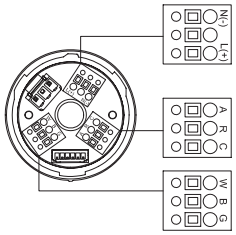
MTG/MTC/MTR60



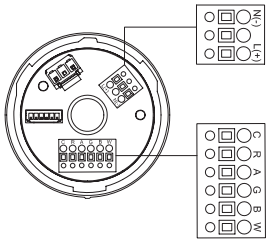
MTG/MTC/MTR70

C	COMMON
R	RED
A	AMBER
G	GREEN
B	BLUE
W	WHITE

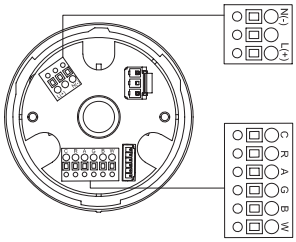
Terminal block wiring method(AC Type)



MTG/MTC/MTR50



MTG/MTC/MTR60



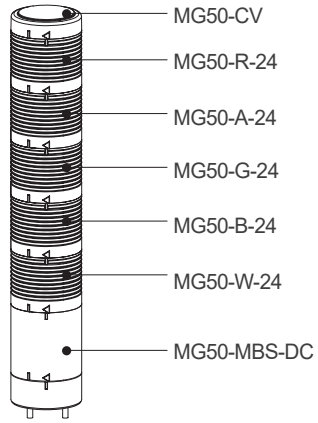
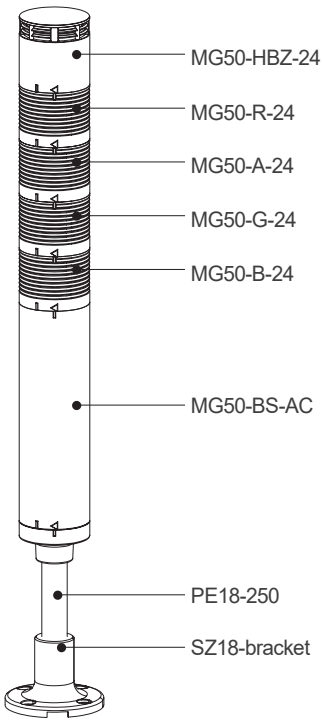
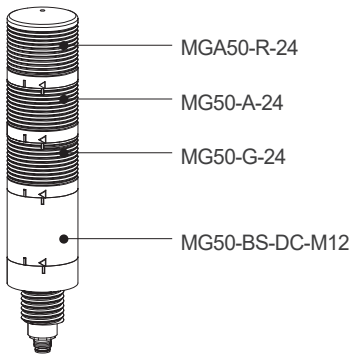
MTG/MTC/MTR70

N(-)	AC POWER
-	N/A
L(+)	AC POWER

C	COMMON
R	RED
A	AMBER
G	GREEN
B	BLUE
W	WHITE

Example of MTG50 module configuration

- You can assemble the product through module combination by referring to the diagram below.
- When a buzzer module (high volume buzzer module/waterproof buzzer module) is combined, only 4 LED modules can be assembled (W color module cannot be assembled).

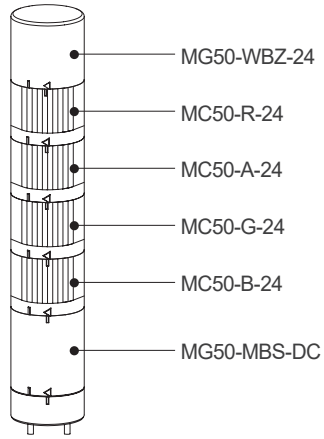
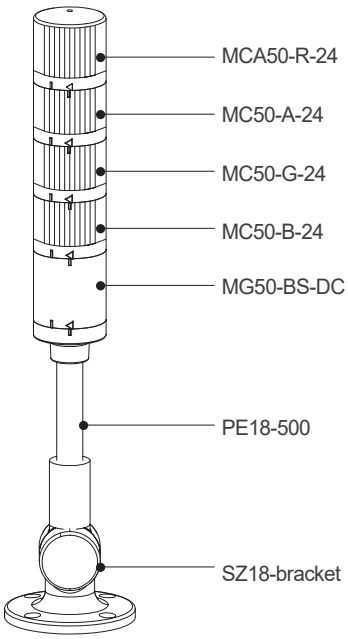
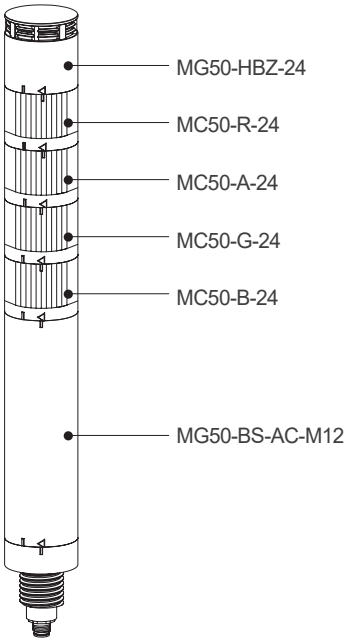
MTG50ML-24-5-RAGBW		MTG50L-HBZ-110/220-4-RAGB-SZ18		MTGA50L-24-3-RAG-M12	
Shape	Modules	Shape	Modules	Shape	Modules
					
cover module + LED module + MBS module(Self stand type module)		Buzzer module + LED module + BS module(Pole type module) + POLE + Bracket		Cover integrated Lens option LED module + LED module + BS module(M12 CONNECTOR type module)	

Ordering Specifications

MG50-HBZ-24	-	MC50-R/A/G/B-24	-	MG50-BS-AC	-	PE18-250	-	SZ18
[Upper module]		[LED module]		[Base module]		[Pole]		[Bracket]
• Cover module • Buzzer module • Cover integrated Lens option is available		R-Red A-Amber G-Green B-Blue W-White		• Pole mount type • Self stand type • M12 CONNECTOR type		• (Blank)None-Self stand type, M12 CONNECTOR type • Pole type		• (Blank)None-Self stand type, M12 CONNECTOR type • Pole type, Self stand type(Option)

Example of MTC50 module configuration

- You can assemble the product through module combination by referring to the diagram below.
- When a buzzer module (high volume buzzer module/waterproof buzzer module) is combined, only 4 LED modules can be assembled (W color module cannot be assembled).

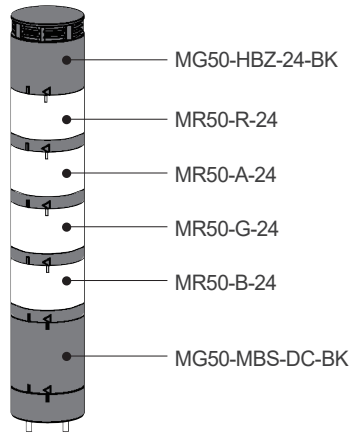
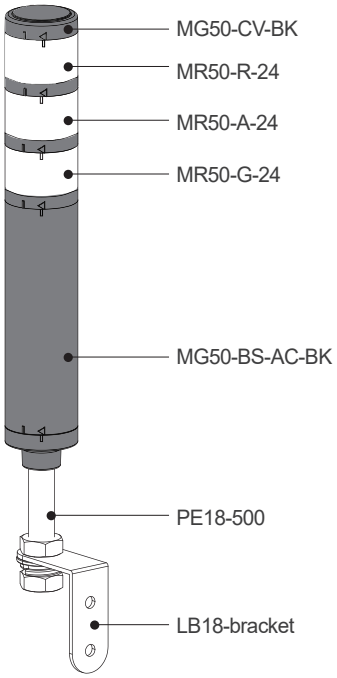
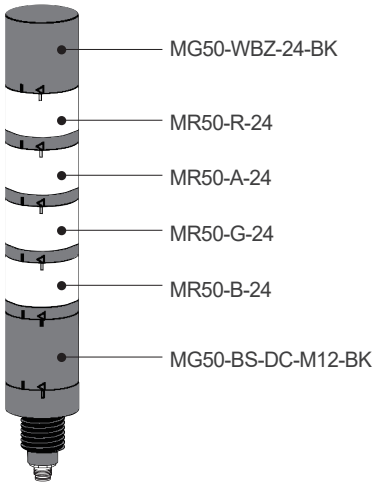
MTC50ML-WBZ-24-4-RAGB		MTCA50L-24-4-RAGB-SZ18		MTC50L-HBZ-24-4-RAGB-M12	
Shape	Modules	Shape	Modules	Shape	Modules
	MG50-WBZ-24 MC50-R-24 MC50-A-24 MC50-G-24 MC50-B-24 MG50-MBS-DC		MCA50-R-24 MC50-A-24 MC50-G-24 MC50-B-24 MG50-BS-DC PE18-500 SZ18-bracket		MG50-HBZ-24 MC50-R-24 MC50-A-24 MC50-G-24 MC50-B-24 MG50-BS-AC-M12
Buzzer module + LED module + MBS module(Self stand type module)		Cover integrated Lens option LED module + LED module + BS module(Pole type module) + Pole + Bracket		Buzzer module + LED module + BS module(M12 CONNECTOR type module)	

Ordering Specifications

MG50-WBZ-24	-	MC50-R/A/G/B-24	-	MG50-MBS-DC	-	(Blank)	-	(Blank)
[Upper module]		[LED module]		[Base module]		[Pole]		[Bracket]
• Cover module • Buzzer module • Cover integrated Lens option is available		R-Red A-Amber G-Green B-Blue W-White		• Pole mount type • Self stand type • M12 CONNECTOR type		• (Blank)None-Self stand type, M12 CONNECTOR type • Pole type		• (Blank)None-Self stand type, M12 CONNECTOR type • Pole type, Self stand type(Option)

Example of MTR50 module configuration

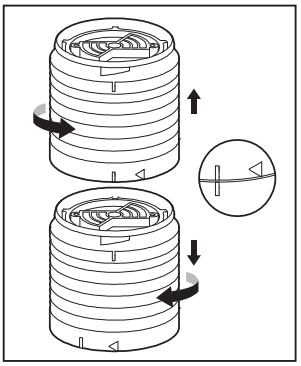
- You can assemble the product through module combination by referring to the diagram below.
- When a buzzer module (high volume buzzer module/waterproof buzzer module) is combined, only 4 LED modules can be assembled (W color module cannot be assembled).

MTR50ML-HBZ-24-4-RAGB-BK		MTR50L-110/220-3-RAG-LB18-BK		MTR50L-WBZ-24-4-RAGB-M12-BK	
Shape	Modules	Shape	Modules	Shape	Modules
					
Buzzer module-Black + LED module + MBS module-Black (Self stand type module)		cover module-Black + LED module + BS module-Black(Pole type module) + Pole + Bracket		Buzzer module-Black + LED module + BS module-Black (M12 CONNECTOR type module)	

Ordering Specifications

MG50-CV-BK	-	MR50-R/A/G/B-24	-	MG50-BS-AC-BK	-	PE18-500	-	LB18
[Upper module]		[LED module]		[Base module]		[Pole]		[Bracket]
• Cover module • Buzzer module • Cover integrated Lens option is available		R-Red A-Amber G-Green B-Blue W-White		• Pole mount type • Self stand type • M12 CONNECTOR type		• (Blank)None-Self stand type, M12 CONNECTOR type • Pole type		• (Blank)None-Self stand type, M12 CONNECTOR type • Pole type, Self stand type(Option)

How to Change Lens Kit

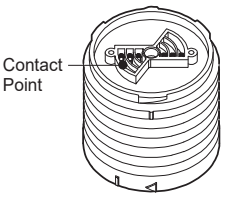


• Disassembling lens kits

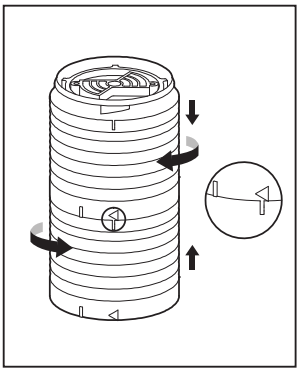
① Twist the upper lens kit in a counter-wise direction so the “I” mark from both kits align.

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.



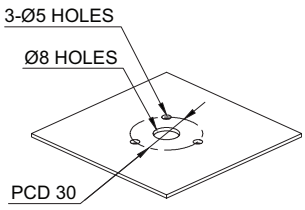
• Assembling lens kits

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’ “◁” mark aligns with the lower lens’ “I” mark.

Mounting Hole Specifications

■ MTG50 Self stand base module DC/ Self stand base module AC



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

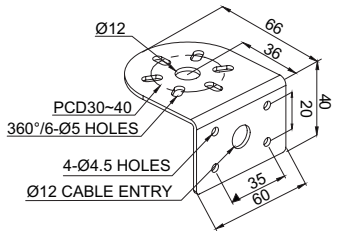
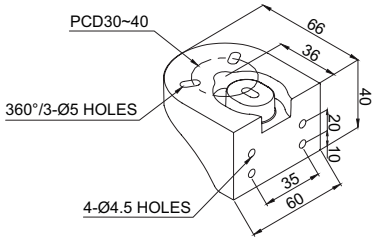
Installation Environment and Protection Rating

- This product is designed for indoor use with protection rating of Non-Waterproof(High-volume buzzer type)/ IP65(Waterproof 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).

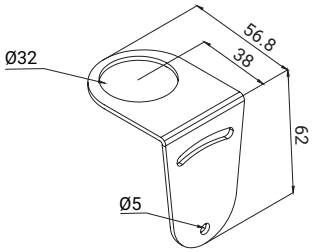
Mounting Accessories (Sold Separately)

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

■ MTG50 Self stand base module DC/ module AC

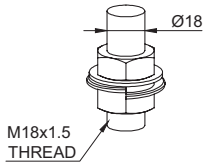
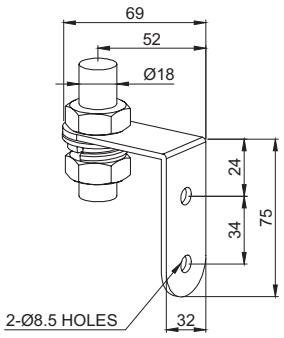
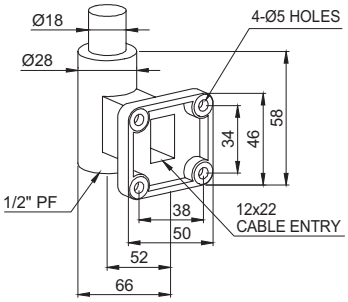
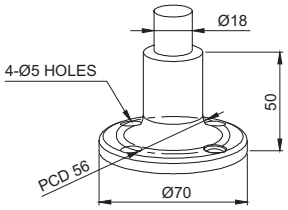
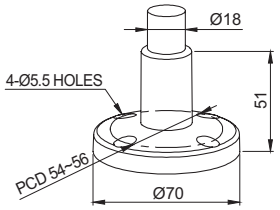
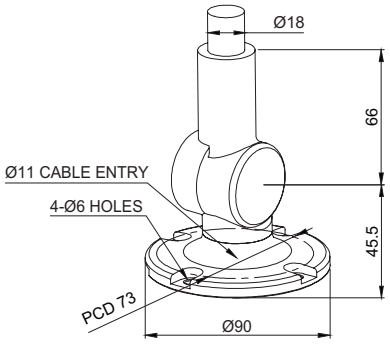
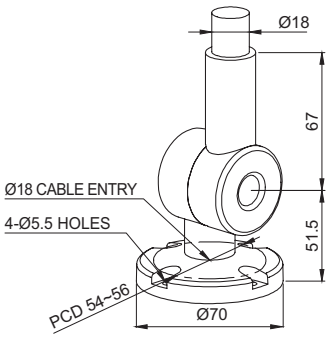
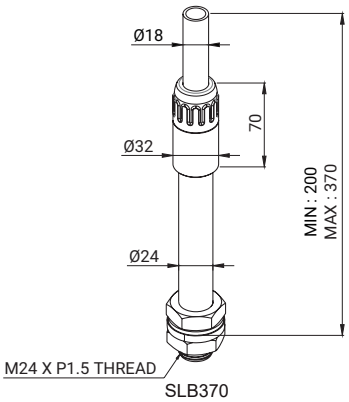
	Dimensions	
MTG50 MTC50 MTR50	 TWS45	 TWA45

■ MTG50 M12 connector type module DC / module AC

	Dimensions
MTG50 MTC50 MTR50	 LB32

Mounting Accessories (Sold Separately)

■ MTG50-Pole mount type module DC/ module AC

	Dimensions	
MTG50 MTC50 MTR50	 18mm SCREW & NUT	 LB18
	 LW18	 SZ18
	 QZ18	 SL18
	 QL18	 SLB370

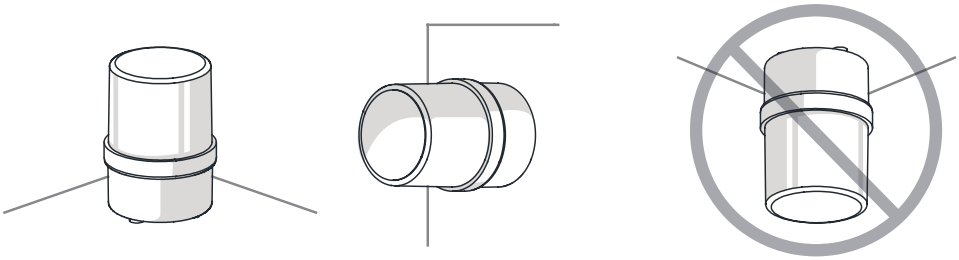
Product installation direction

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

· BEACON/SIGNALING LIGHT

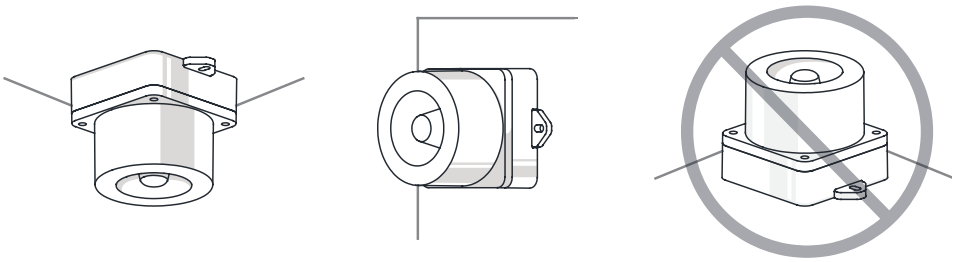
※ For products with a protection rating of less than IPX4, please install it vertically.

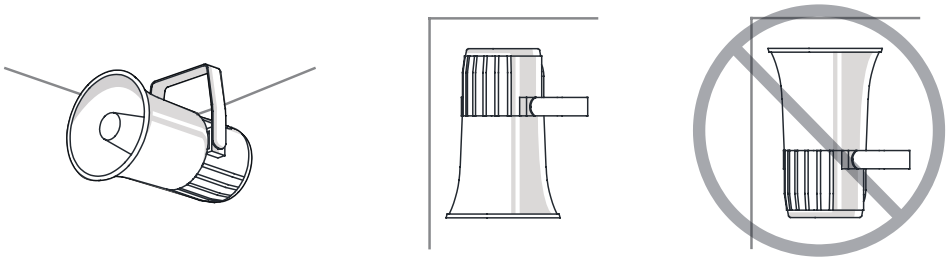
Power cord inlet part shall not be facing the sky.



· ELECTRONIC SOUNDER/SIGNAL HORN

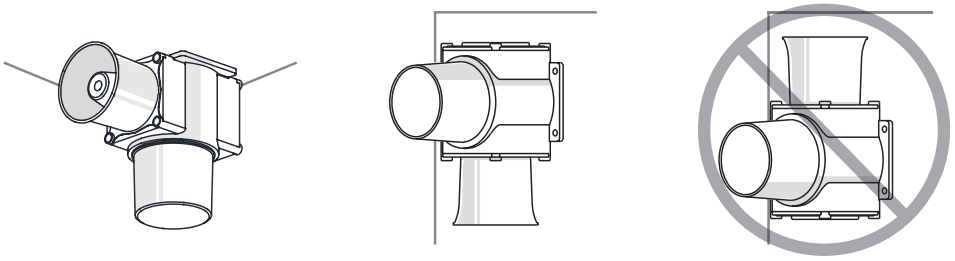
Sounder part shall not be facing the sky.





· HEAVY-DUTY & EXPLOSION PROOF SIGNALINGS

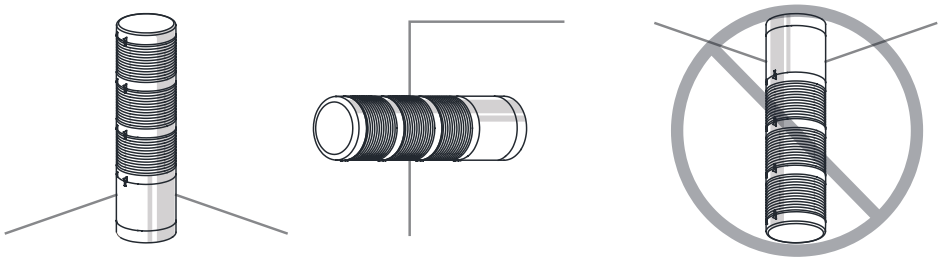
Sounder part shall not be facing the sky.



· 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

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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You can expect prompt service if you have exact information such as model name, symptom, telephone number and address.
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