MTG / MTC / MTR Series

PRODUCT SPECIFICATION

MTG / MTC / MTR Series

Materials Lens-PC, Housing-ABS, Pole-Al
Ambient operating temperature -30°C to +50°C
Sound volume Standard buzzer Max.90dB at 1m
High-volume buzzer Max.100dB at 1m
Waterproof buzzer Max.85dB at 1m
Protection rating
LED module without buzzer,
Waterproof buzzer module type-IP65
High-volume buzzer module type-Non-Waterproof
Certificates CE, UL
※ Separate inquiry for UL listed silver housing model
Flashing rate 60-80 flashes/min
Compliant with RoHS directive



- Modular LED steady/flashing type signal tower lights
- 3 unique visual effects are possible as different
  MTG: Excellent visibility from a distance with the use of a special color diffusing lens
  MTC: Added a separate color filter lens inside the outer lens to help provide a clear signal
  MTR: Soft and comfortable signal light emitted through the translucent lens
- Can select from size selections of Ø50mm, Ø60mm, and Ø70mm to fit your sophisticated application needs
- Steady/Flashing mode can be selected by using dip switch inside of the LED module
- Push buttons on the terminal help you to realize easy wiring
- Modularized high buzzer module emits intensive buzzer sound
- Sealed design with waterproof buzzer
- MTGA / MTCA / MTRA type offers a nifty integrated lens and cover for a simple aesthetically pleasing product



Each modular color lens can be added without additional tools



MTG / MTC / MTR 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.

1. **Terminal type base module**
   Terminal type base module can wire power lines and signaling lines separately depending on the installation environment.
2. **Buzzer module**
   High-volume buzzer module: The high-volume buzzer module with a high-output buzzer can deliver a stronger signal than a standard buzzer module(Buzzer volume: Max. 100dB at 1m).
   Waterproof buzzer module: The waterproof buzzer module with a fully enclosed structure can emit a stable buzzer sound (IP Rating: IP65, buzzer volume: Max. 85dB at 1m).
3. **Integrated cover and lens model**
   MTGA / MTCA / MTRA Series the sleek lens cover model is made of one piece for a simple unified look.
4. **Black and silver applied products**
   Black or silver products for the body, cover, and buzzer module are customized product.
5. **M12 connector attached type**
   Built-in M12 connector realizes easy installations and disconnections.
6. **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.

MTG / MTC / MTR Series

A new concept model that allows users to change and combine individual lens colors without a tool

Cover integrated LED module



It is possible to assemble a product with a different atmosphere from existing products by using a cover lens integrated module in which the cover and the LED module are integrated.

- MGA LED module : Excellent visibility even from a distance by adopting a colored diffuser lens that is integrated with the cover
- MCA LED module : Clear and beautiful signal light by embedding a filter lens in a transparent groove that is integrated with the cover
- MRA LED module : Soft and cozy signal light is emitted by using a translucent lens that is integrated with the cover.

Module name	Appearance	Product feature
LED module		• The LED module adopts a special colored diffused light for excellent visibility. • Customer can select LED function by using the built-in steady/flashing mode switch. • Customer can disassemble and assemble according to the purpose. ※ MTC/MTR module is photographed in a LED steady mode to help customer's understanding.
Standard buzzer module		• The buzzer volume level is up to 90dB. • Customer can freely disassemble and assemble according to customer's demand.
High-volume buzzer module		• The buzzer volume level is up to 100dB. • Intensive buzzer sound is possible by adopting a high-volume buzzer. • Customer can freely disassemble and assemble according to customer's demand.
Waterproof buzzer module		• By adopting a completely sealed structure, MTG realizes stable buzzer sound. • Better protection rating which is IP65 in comparison with a built-in buzzer unit. • Customer can freely disassemble and assemble according to customer's demand.

Features when MC / MR module modes are steady/off conditions

- MC/MR module does not display the color of the light source on the module surface when it is turned off (see photo below).



When MC module is ON



When MR module is ON



When MC module is OFF



When MR module is OFF

Can select from a variety of Mounting bracket options to fit your application needs

- You can chose from 10 different kinds of Mounting bracket options.
- The bracket materials vary from steel, aluminum, and polycarbonate
- Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

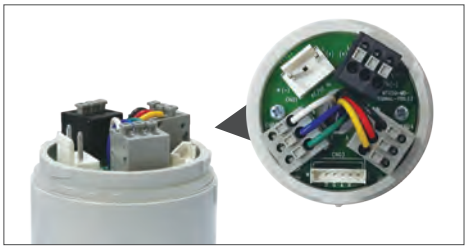




MTG / MTC / MTR Series

A model with excellent versatility through the application of various mounting options

Terminal type base module



· Constructing a terminal block to release locking on the terminal block type base module enables wiring without using a special tool.
· User directly selects the standard power cable length, color, specifications, and so on and customized wiring is possible.
· Easy wiring by releasing locking with a button.

Module name	Appearance	Product feature
Self stand base module		• It is used when fixing the product directly to the mounting location without using any other type of Mounting bracket.
Pole type base module		• After assembling the pole on the bottom plate of the product, use a separate Mounting bracket to fix the product. • The height of the product can be freely adjusted by changing the pole height. • 9 types of various Mounting brackets can be selected and used according to the installation environment
M12 connector type base module		• It is used when fixing the product directly to the mounting location without using any other type of Mounting bracket. • Connect and drive the product using the M12 connector on the bottom plate. • The M12 connector type base module is available only in DC24V specification.

How to assemble modules

· Consumers can purchase the necessary modules and assemble them themselves.
· Detailed specifications and features of the module are introduced in the catalog.
· Module assembly information is included in the assembly guide page.



Pre-assemble unit

· Assemble the functions requested by the consumer and supply it as a finished product.
· The assembly specifications of various types are introduced in the catalog.

How to assemble modules



① Assemble so that the I-shaped projections of the module to be assembled coincide with each other.



② Lock the upper module by rotating the upper module clockwise so that the triangular protrusion aligns with the I-shaped protrusion of the lower module.

How to dismantle modules



① Make sure that the I-shaped projection of the upper module is aligned with the I-shaped projection of the lower module. Rotate the upper module counterclockwise.



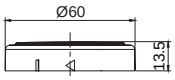
② Separate the upper module to the upper side.

MTG60 / MTC60 / MTR60 Series

Top module

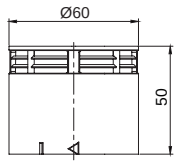
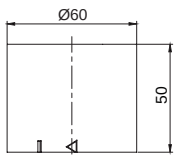
· Cover

(Units : mm)

Appearance	Parts Name	Model No	Color	Weight	Common Specifications
	MTG60 Cover	MG60-CV	Ivory	0.01kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø60 X 14 
	MTG60 Cover	MG60-CV-SV	Silver	0.01kg	
	MTG60 Cover	MG60-CV-BK	Black	0.01kg	

· Buzzer module

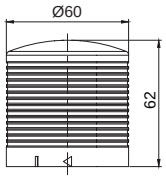
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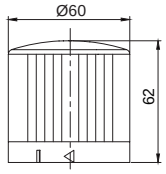
Appearance	Parts Name	Model No	Color	Specifications		Volume(dB)	Weight	Common Specifications
				Voltage	Current			
	MTG60-Standard buzzer module	MG60-BZ-24	Ivory	DC24V	90mA	Max.90dB	0.06kg	
	MTG60-High-volume buzzer module	MG60-HBZ-24	Ivory	DC24V	90mA	Max.100dB	0.06kg	· Material: ABS · Protection ratings with assemble : Non-Waterproof · Product size: Ø60 X 50 
	MTG60-Standard buzzer module	MG60-BZ-24-SV	Silver	DC24V	90mA	Max.90dB	0.06kg	
	MTG60-High-volume buzzer module	MG60-HBZ-24-SV	Silver	DC24V	90mA	Max.100dB	0.06kg	
	MTG60-Standard buzzer module	MG60-BZ-24-BK	Black	DC24V	90mA	Max.90dB	0.06kg	
	MTG60-High-volume buzzer module	MG60-HBZ-24-BK	Black	DC24V	90mA	Max.100dB	0.06kg	
	MTG60-Waterproof buzzer module	MG60-WBZ-24	Ivory	DC24V	90mA	Max.85dB	0.06kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø60 X 50 
	MTG60-Waterproof buzzer module	MG60-WBZ-24-SV	Silver	DC24V	90mA	Max.85dB	0.06kg	
	MTG60-Waterproof buzzer module	MG60-WBZ-24-BK	Black	DC24V	90mA	Max.85dB	0.06kg	

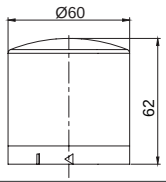
· Cover integrated LED Steady/Flashing module

(Units : mm)

Appearance			Model No	Color	Specifications		Weight	Common Specifications
MG	MC	MR			Voltage	Current		
			MGA60-R-24 MCA60-R-24 MRA60-R-24	Red	DC24V	70mA	0.06kg	· Material: PC · Protection ratings with assemble: IP65 · Product size: Ø60 X 62



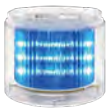


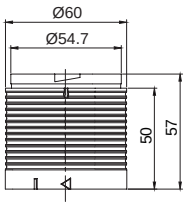


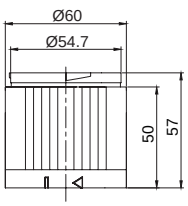
LED module

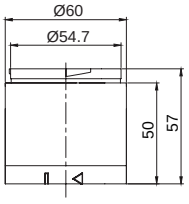
· LED Steady/Flashing module

(Units : mm)

Appearance			Model No	Color	Specifications		Weight	Common Specifications
MG	MC	MR			Voltage	Current		
			MG60-R-24 MC60-R-24 MR60-R-24	Red	DC24V	70mA	0.06kg	· Material: PC · Protection ratings with assemble: IP65 · Product size: Ø60 X 57
			MG60-A-24 MC60-A-24 MR60-A-24	Amber	DC24V	70mA	0.06kg	
			MG60-G-24 MC60-G-24 MR60-G-24	Green	DC24V	70mA	0.06kg	
			MG60-B-24 MC60-B-24 MR60-B-24	Blue	DC24V	70mA	0.06kg	
			MG60-W-24 MC60-W-24 MR60-W-24	White	DC24V	70mA	0.06kg	







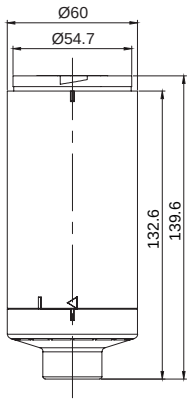
MTG60 / MTC60 / MTR60 Series

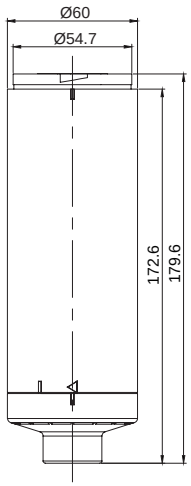
Base module

· Pole mount type

(Units : mm)

Appearance	Parts Name	Model No	Color	Specifications		Weight	Common Specifications
				Voltage	Current		
	MTG60-Pole type base module-DC	MG60-BS-DC	Ivory	DC24V	400mA	0.14kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø60 X 140
	MTG60-Pole type base module-DC	MG60-BS-DC-SV	Silver	DC24V	400mA	0.14kg	
	MTG60-Pole type base module-DC	MG60-BS-DC-BK	Black	DC24V	400mA	0.14kg	
	MTG60-Pole type base module-AC	MG60-BS-AC	Ivory	AC110V -220V	Max. 250mA	0.24kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø60 X 180
	MTG60-Pole type base module-AC	MG60-BS-AC-SV	Silver	AC110V -220V	Max. 250mA	0.24kg	
	MTG60-Pole type base module-AC	MG60-BS-AC-BK	Black	AC110V -220V	Max. 250mA	0.24kg	

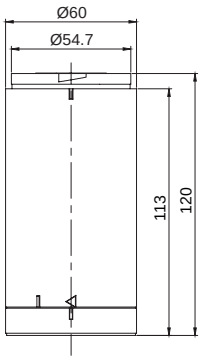


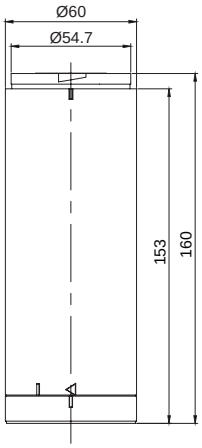


· Self stand type

(Units : mm)

Appearance	Parts Name	Model No	Color	Specifications		Weight	Common Specifications
				Voltage	Current		
	MTG60-Self stand base module-DC	MG60-MBS-DC	Ivory	DC24V	400mA	0.14kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø60 X 120
	MTG60-Self stand base module-DC	MG60-MBS-DC-SV	Silver	DC24V	400mA	0.14kg	
	MTG60-Self stand base module-DC	MG60-MBS-DC-BK	Black	DC24V	400mA	0.14kg	
	MTG60-Self stand base module-AC	MG60-MBS-AC	Ivory	AC110V -220V	Max. 250mA	0.25kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø60 X 160
	MTG60-Self stand base module-AC	MG60-MBS-AC-SV	Silver	AC110V -220V	Max. 250mA	0.25kg	
	MTG60-Self stand base module-AC	MG60-MBS-AC-BK	Black	AC110V -220V	Max. 250mA	0.25kg	



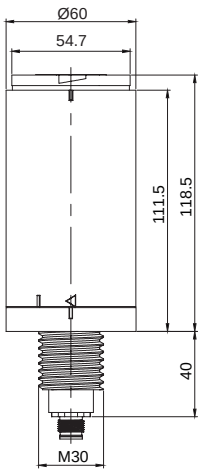


MTG60 / MTC60 / MTR60 Series

· M12 connector type

(Units : mm)

Appearance	Parts Name	Model No	Color	Specifications		Weight	Common Specifications
				Voltage	Current		
	MTG60-M12 connector type base module-DC	MG60-BS-DC -M12	Ivory	DC24V	400mA	0.15kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø60 X 119
	MTG60-M12 connector type base module-DC	MG60-BS-DC -M12-SV	Silver	DC24V	400mA	0.15kg	
	MTG60-M12 connector type base module-DC	MG60-BS-DC -M12-BK	Black	DC24V	400mA	0.15kg	



Pole

(Units : mm)

Appearance	Model No	Thread Specifications	Length	Common Specifications
	PE18-100 PE18-250 PE18-400 PE18-600 PE18-800 PE18-1000	M18	100mm 250mm 400mm 600mm 800mm 1000mm	· Pole Outdia: Ø18

Mount bracket

· Pole mount type

(Units : mm)

Appearance	Parts Name	Model No	Material	Color	Common Specifications
	18mm SCREW & NUT (standard)	SN18-bracket	Steel	-	-
	LB18	LB18-bracket	Steel	-	
	LW18	LW18-bracket	ABS	Ivory	
	QZ18	QZ18-bracket	ABS	Black	
	SZ18	SZ18-bracket	Al	Silver	
	QL18	QL18-bracket	ABS	Black	
	SL18	SL18-bracket	Al	Silver	
	SLB370	SLB370-bracket	PC, Steel	Ivory	

· Self stand type

(Units : mm)

Appearance	Parts Name	Model No	Material	Color	Common Specifications
	TWS45	TWS45-bracket	Steel	-	-
	TWA45	TWA45-bracket	PC	Black	

· M12 connector type

(Units : mm)

Appearance	Parts Name	Model No	Material	Color	Common Specifications
	LB32	LB32-bracket	Steel	-	-

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

MTG60 / MTC60 / MTR60 Series

How to configure module

Module name/ Appearance	Assembly step
 MG60-BZ/MG60-HBZ/MG60-WBZ  MG60-CV  MGA60-R/MCA60-R/MRA60-R	**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
 MG60-R/A/G/B/W  MC60-R/A/G/B/W  MR60-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
 MG60-MBS-DC MG60-MBS-AC  MG60-BS-DC-M12 MG60-BS-AC-M12  MG60-BS-DC MG60-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  SN18 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

IP65 | +50℃ -30℃ | NPN | PNP | RoHS

Example of MTG60 module configuration

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

MTG60ML-4-24-RAGB-SV		MTG60L-WBZ-3-110/220-RAG-LW18		MTG60L-HBZ-4-24-RAGB-M12	
Appearance	Modules	Appearance	Modules	Appearance	Modules
	MG60-CV-SV MG60-R-24 MG60-A-24 MG60-G-24 MG60-B-24 MG60-MBS-DC-SV		MG60-WBZ-24 MG60-R-24 MG60-A-24 MG60-G-24 MG60-BS-AC PE18-250 LW18-bracket		MG60-HBZ-24 MG60-R-24 MG60-A-24 MG60-G-24 MG60-B-24 MG60-BS-DC-M12
Cover module-Silver + LED module + MBS module-Silver(Self stand type module)		Buzzer module + LED module + BS module(Pole type module) + POLE + Mount bracket		Buzzer module + LED module + BS module(M12 connector type module)	

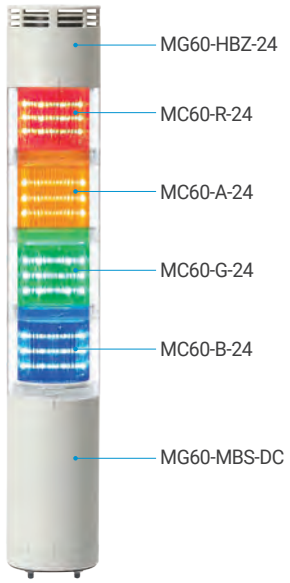
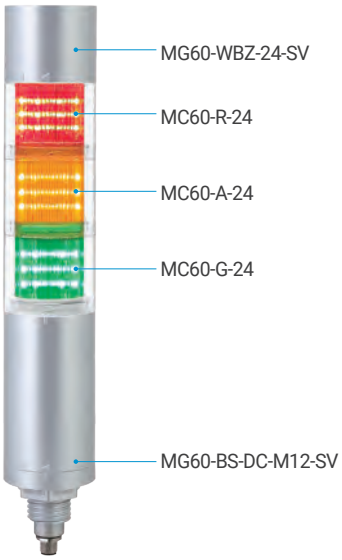
Ordering Specification

[Upper module]	[LED module]	[Base module]	[Pole]	[Bracket]
MG60-WBZ-24	MG60-R/A/G/B-24	MG60-BS-AC	PE18-250	LW18
Cover module Buzzer module Cover integrated LED module	R-Red A-Amber G-Green B-Blue W-White	Pole mount type Self stand type M12 connector type	None-Self stand type, M12 connector type Pole type	None-Self stand type, M12 connector type Pole type, Self stand type(Option)

MTG60 / MTC60 / MTR60 Series

Example of MTC60 module configuration

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

MTC60ML-HBZ-4-24-RAGB		MTCA60L-4-24-RAGB-SL18		MTC60L-WBZ-3-24-RAG-M12-SV	
Appearance	Modules	Appearance	Modules	Appearance	Modules
	MG60-HBZ-24 MC60-R-24 MC60-A-24 MC60-G-24 MC60-B-24 MG60-MBS-DC		MCA60-R-24 MC60-A-24 MC60-G-24 MC60-B-24 MG60-BS-DC PE18-250 SL18-bracket		MG60-WBZ-24-SV MC60-R-24 MC60-A-24 MC60-G-24 MG60-BS-DC-M12-SV
Buzzer module + LED module + MBS module(Self stand type module)		Cover integrated LED module + LED module + BS module(Pole type module) + POLE + Mount bracket		Buzzer module-Silver + LED module + BS module-Silver (M12 connector type module)	

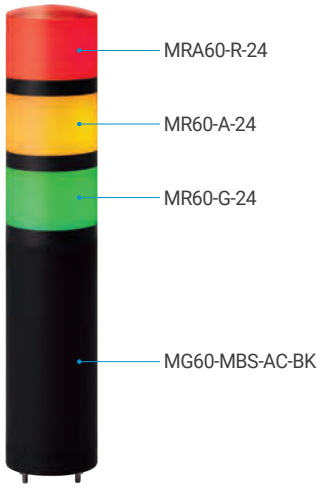
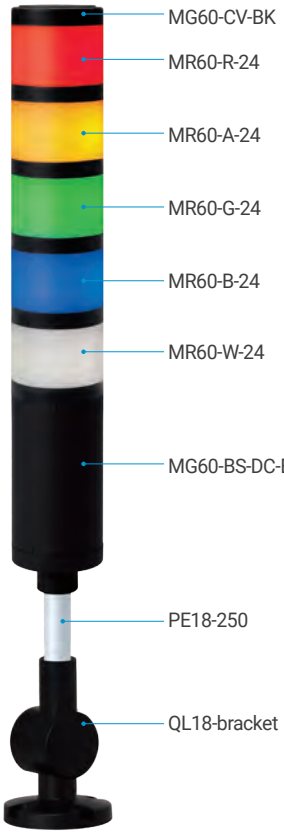
Ordering Specification

[Upper module]		[LED module]		[Base module]		[Pole]		[Bracket]
MCA60-R-24	-	MC60-R/A/G/B-24	-	MG60-BS-DC	-	PE18-250	-	SL18
Cover module Buzzer module Cover integrated LED module		R-Red A-Amber G-Green B-Blue W-White		Pole mount type Self stand type M12 connector type		None-Self stand type, M12 connector type Pole type		None-Self stand type, M12 connector type Pole type, Self stand type(Option)

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Example of MTR60 module configuration

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

MTRA60ML-3-110/220-RAG-BK		MTR60L-5-24-RAGBW-QL18-BK		MTR60L-HBZ-2-24-RG-M12-BK	
Appearance	Modules	Appearance	Modules	Appearance	Modules
	MRA60-R-24 MR60-A-24 MR60-G-24 MG60-MBS-AC-BK		MG60-CV-BK MR60-R-24 MR60-A-24 MR60-G-24 MR60-B-24 MR60-W-24 MG60-BS-DC-BK PE18-250 QL18-bracket		MG60-HBZ-24-BK MR60-R-24 MR60-G-24 MG60-BS-DC-M12-BK
Cover integrated LED module + LED module + MBS module-Black (Self stand type module)		Cover module-Black + LED module + BS module-Black(Pole type module) + POLE + Mount bracket		Buzzer module-Black + LED module + BS module-Black (M12 connector type module)	

Ordering Specification

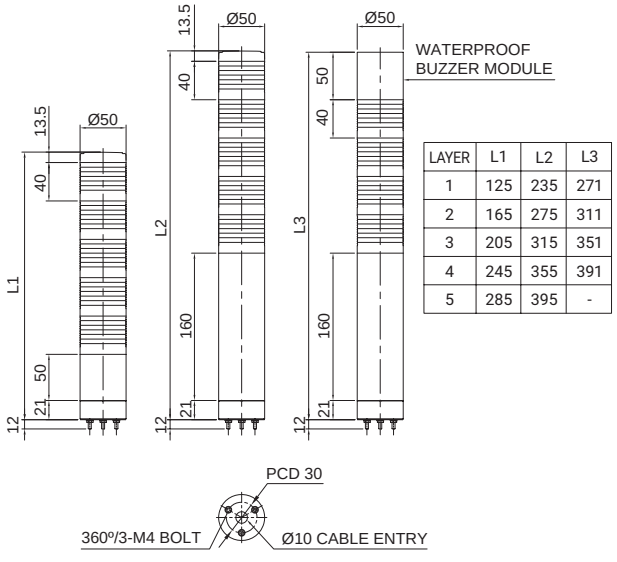
[Upper module]		[LED module]		[Base module]		[Pole]		[Bracket]
MG60-CV-BK	-	MR60-R/A/G/B/W-24	-	MG60-BS-DC-BK	-	PE18-250	-	QL18
Cover module Buzzer module Cover integrated LED module		R-Red A-Amber G-Green B-Blue W-White		Pole mount type Self stand type M12 connector type		None-Self stand type, M12 connector type Pole type		None-Self stand type, M12 connector type Pole type, Self stand type(Option)

MTG / MTC / MTR Series

Technical Diagram

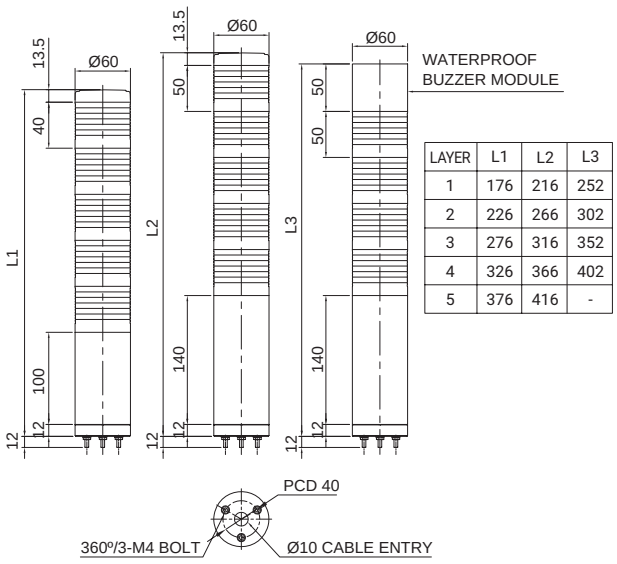
Units : mm

·MTG50ML-DC ·MTG50ML-AC ·MTG50ML-BZ-AC
·MTG50MLF-DC ·MTG50MLF-AC ·MTG50MLF-BZ-AC



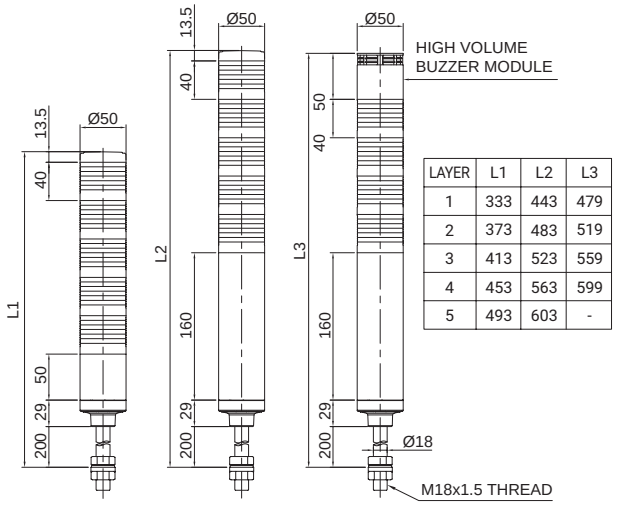
LAYER	L1	L2	L3
1	125	235	271
2	165	275	311
3	205	315	351
4	245	355	391
5	285	395	-

·MTG60ML-DC ·MTG60ML-AC ·MTG60ML-BZ-AC
·MTG60MLF-DC ·MTG60MLF-AC ·MTG60MLF-BZ-AC



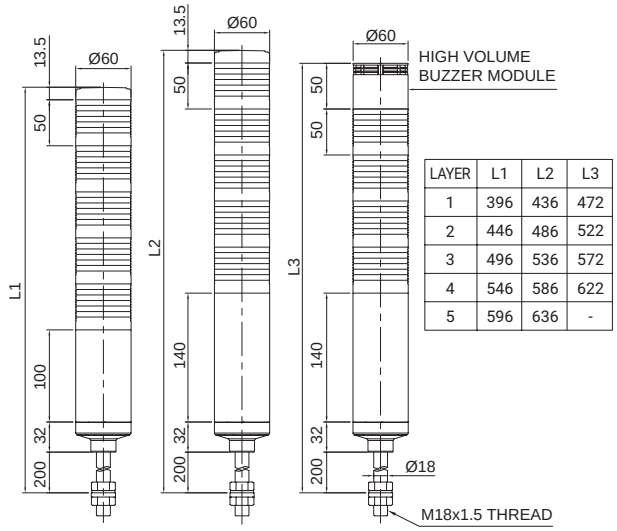
LAYER	L1	L2	L3
1	176	216	252
2	226	266	302
3	276	316	352
4	326	366	402
5	376	416	-

·MTG50L-DC ·MTG50L-AC ·MTG50L-BZ-AC
·MTG50LF-DC ·MTG50LF-AC ·MTG50LF-BZ-AC



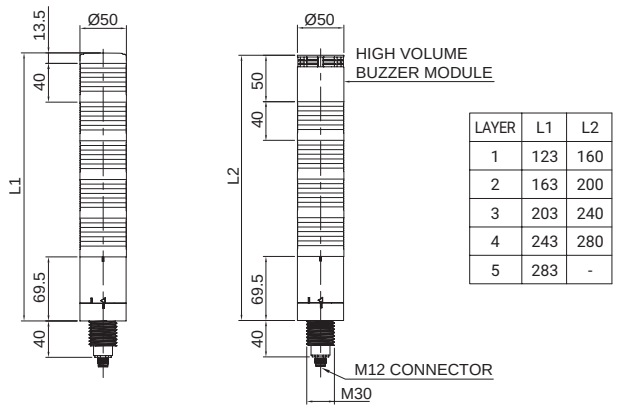
LAYER	L1	L2	L3
1	333	443	479
2	373	483	519
3	413	523	559
4	453	563	599
5	493	603	-

·MTG60L-DC ·MTG60L-AC ·MTG60L-BZ-AC
·MTG60LF-DC ·MTG60LF-AC ·MTG60LF-BZ-AC



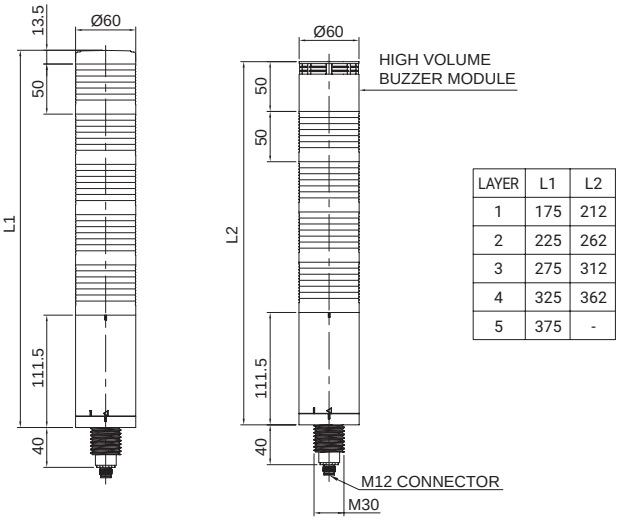
LAYER	L1	L2	L3
1	396	436	472
2	446	486	522
3	496	536	572
4	546	586	622
5	596	636	-

·MTG50L-DC-M12 ·MTG50L-BZ-DC-M12
·MTG50LF-DC-M12 ·MTG50LF-BZ-DC-M12



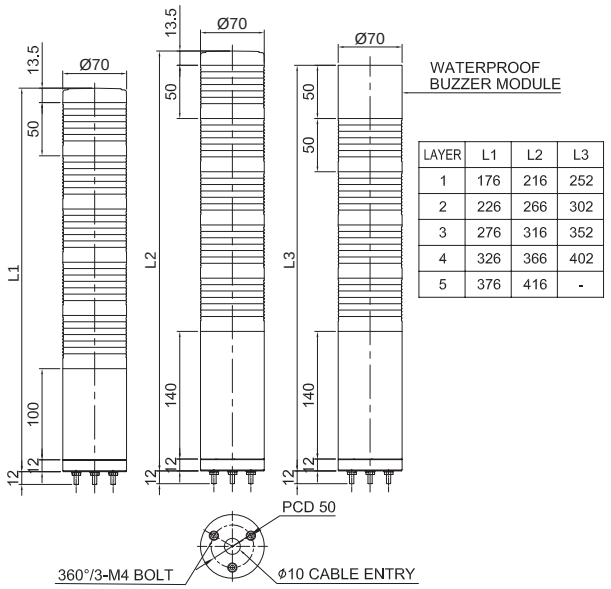
LAYER	L1	L2
1	123	160
2	163	200
3	203	240
4	243	280
5	283	-

·MTG60L-DC-M12 ·MTG60L-BZ-DC-M12
·MTG60LF-DC-M12 ·MTG60LF-BZ-DC-M12



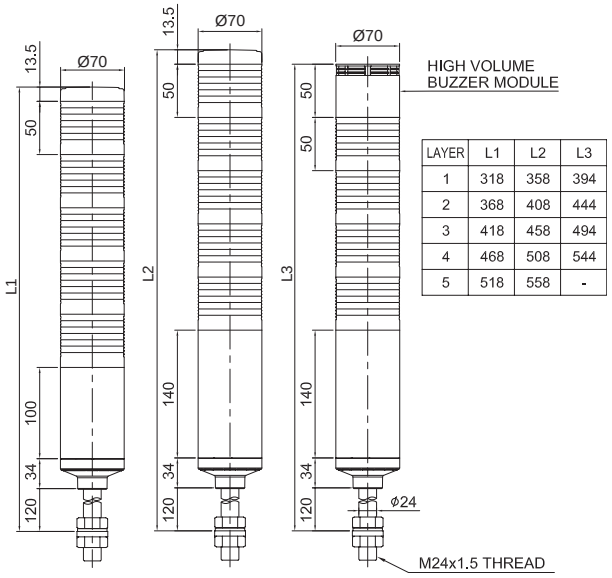
LAYER	L1	L2
1	175	212
2	225	262
3	275	312
4	325	362
5	375	-

·MTG70ML-DC ·MTG70ML-AC ·MTG70ML-BZ-AC
·MTG70MLF-DC ·MTG70MLF-AC ·MTG70MLF-BZ-AC



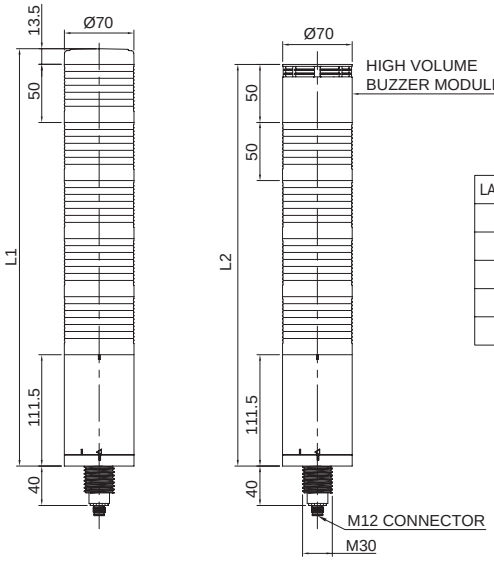
LAYER	L1	L2	L3
1	176	216	252
2	226	266	302
3	276	316	352
4	326	366	402
5	376	416	-

·MTG70L-DC ·MTG70L-AC ·MTG70L-BZ-AC
·MTG70LF-DC ·MTG70LF-AC ·MTG70LF-BZ-AC



LAYER	L1	L2	L3
1	318	358	394
2	368	408	444
3	418	458	494
4	468	508	544
5	518	558	-

·MTG70L-DC-M12 ·MTG70L-BZ-DC-M12
·MTG70LF-DC-M12 ·MTG70LF-BZ-DC-M12



LAYER	L1	L2
1	175	212
2	225	262
3	275	312
4	325	362
5	375	-

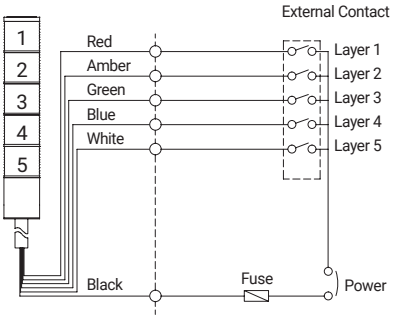
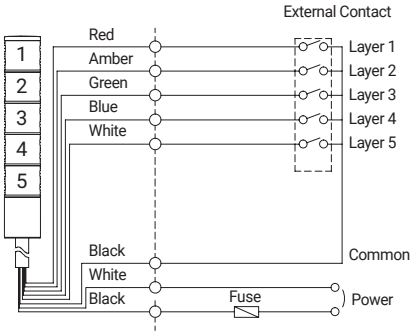
* For external dimensions of MTC / MTR products, refer to the MTG model.
* Buzzer module can be selected among standard buzzer module, high-volume buzzer module and waterproof buzzer module.

MTG Series

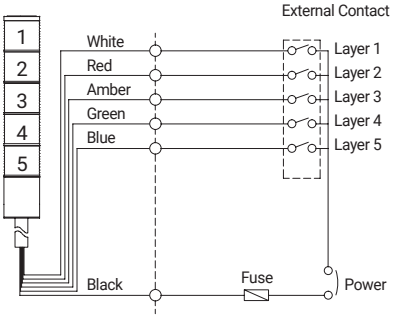
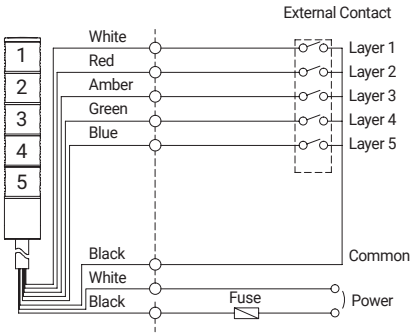
Wiring Instructions(Wiring using External Contact)

· 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 Instructions		Wiring Instructions	
DC Steady/ Flashing		AC Steady/ Flashing	
MTG50 MTC50 MTR50 MTG60 MTC60 MTR60 MTG70 MTC70 MTR70		MTG50 MTC50 MTR50 MTG60 MTC60 MTR60 MTG70 MTC70 MTR70	

· In case of buzzer applied

Wiring Instructions		Wiring Instructions	
DC Steady/ Flashing		AC Steady/ Flashing	
MTG50 MTC50 MTR50 MTG60 MTC60 MTR60 MTG70 MTC70 MTR70		MTG50 MTC50 MTR50 MTG60 MTC60 MTR60 MTG70 MTC70 MTR70	

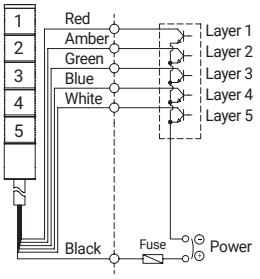
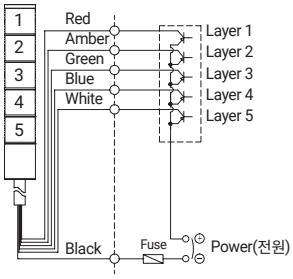
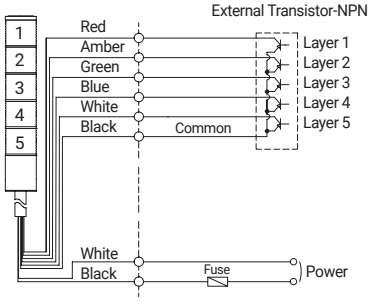
Recommended signal line information

· External power line - UL1015 AWG18(0.75sq) x 2C 400mm
· External signal line - UL1007 AWG22(0.3sq) 400mm
· LED light source tower lamp can be connected using External Contacts and transistors.
· The wiring method for MTG / MTC / MTR products is the same.

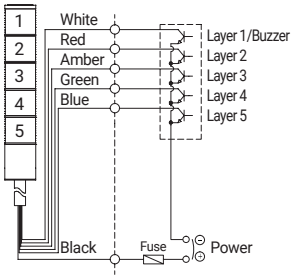
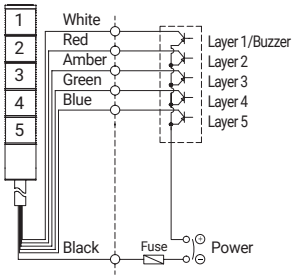
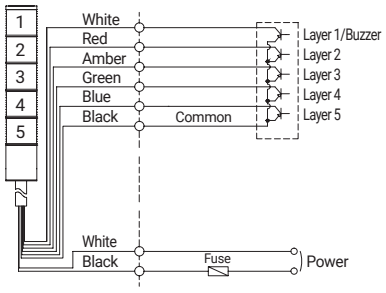
Wiring Instructions(Wiring using transistor)

· 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 Instructions		Wiring Instructions
DC Steady/ Flashing	External Contact	External Transistor-PNP	AC Steady/ Flashing
MTG50 MTC50 MTR50 MTG60 MTC60 MTR60 MTG70 MTC70 MTR70			MTG50 MTC50 MTR50 MTG60 MTC60 MTR60 MTG70 MTC70 MTR70
			External Transistor-NPN
			

· In case of buzzer applied

	Wiring Instructions		Wiring Instructions
DC Steady/ Flashing	External Transistor-NPN	External Transistor-PNP	AC Steady/ Flashing
MTG50 MTC50 MTR50 MTG60 MTC60 MTR60 MTG70 MTC70 MTR70			MTG50 MTC50 MTR50 MTG60 MTC60 MTR60 MTG70 MTC70 MTR70
			External Transistor-PNP
			

Recommended signal line information

· External power line - UL1015 AWG18(0.75sq) x 2C 400mm

· External signal line - UL1007 AWG22(0.3sq) 400mm

· LED light source tower lamp can be connected using External Contacts and transistors.

· The wiring method for MTG / MTC / MTR products is the same.

MTG / MTC / MTR Series

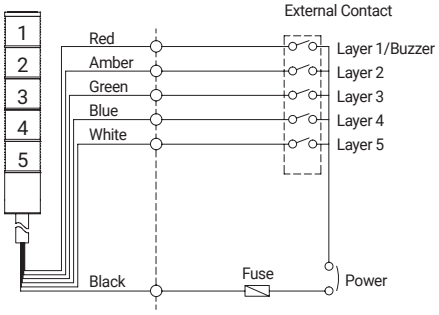
Wiring diagrams(In case of M12 connector type model)

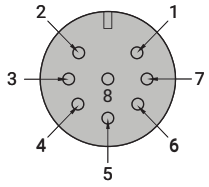
• M12 connector module can be supplied DC24V type only. (It same goes for External Contact/Transistor contact)
• Please wire the product by referring below PIN-MAP.

Wiring Instructions	Wiring Instructions(PIN-MAP)

DC Steady/ Flashing

MTG50-M12
MTC50-M12
MTR50-M12
MTG60-M12
MTC60-M12
MTR60-M12
MTG70-M12
MTC70-M12
MTR70-M12



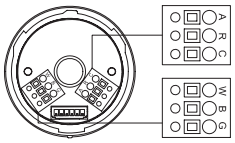


PIN	DESCRIPTION
1	Layer1
2	Layer2
3	Layer3
4	Layer4
5	Layer5
6	N/A
7	N/A
8	POWER(-)

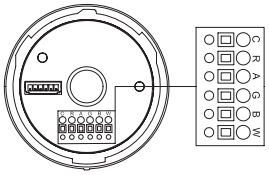
Wiring diagrams(Terminal Wiring Information)

· Please refer to wiring diagram for further information.

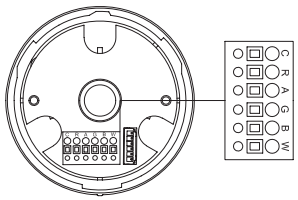
Terminal block wiring method(DC Type)



MTG/MTC/MTR50



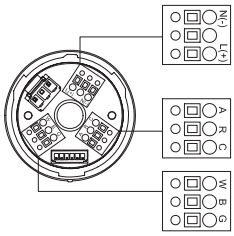
MTG/MTC/MTR60



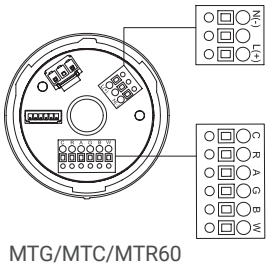
MTG/MTC/MTR70

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

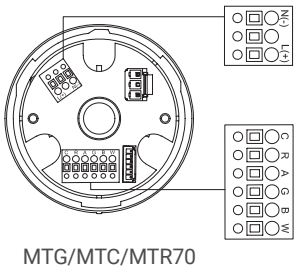
Terminal block wiring method(AC Type)



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