

PRODUCT SPECIFICATION

QTG Series

Materials Lens-PC, Housing-ABS, Pole-Al

Ambient operating temperature -30°C to +50°C

Volume Max.85dB at 1m

Protection rating Standard type-IP65, Built-in buzzer type-IP54

Flashing rate 60-80/min

Compliant with RoHS directive

- Modular LED steady/flashing type signal tower lights
- Excellent visibility from a distance with the use of a special color diffusing lens
- Can select from size selections of Ø50mm, Ø60mm, and Ø70mm to fit your sophisticated application needs
- The addition of modules and change in color arrangement can be achieved without the use of tools by using the Lock-type structure
- QTGA type offers a nifty integrated lens and cover for a simple aesthetically pleasing product
- A variety of Mounting bracket selections for the pole mount type to fit your location and mounting needs
- Standard model and built-in buzzer model can be used by selecting the specifications suitable for the operating environment.
- Available in 2 customized options; sounds buzzer type and high volume(100dB) buzzer type
- Wired type and M12 connector type allow for a customized model that M12 connector can be attached at the end of wires.
- Transistors can be connected and can be operated on PLC directly



Each modular color lens can be added without additional tools



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



1 High volume buzzer(100dB) option can be fitted to the top of the product(Customization).
High volume 100dB volume buzzer module fastened to the top of the product provides 360 degree buzzer signal output which cannot be achieved with the single directional buzzer.(Buzzer volume cannot be adjusted)

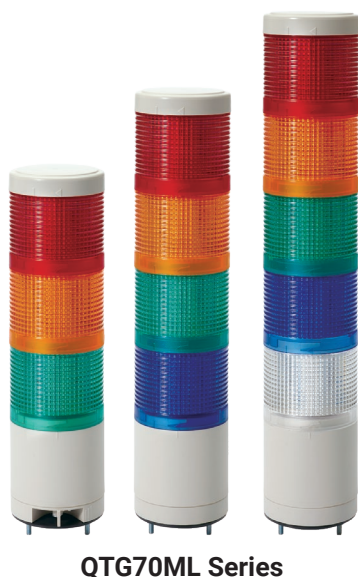
2 Integrated cover and lens model(QTGA50 / QTGA60 / QTGA70)
QTGA50 / QTGA60 / QTGA70 the sleek lens cover model is made of one piece for a simple unified look.

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

4 M12 connector attached type(Customization)
Pre-wired is standard. Can customize the product with the M12 connector if requested.

5 Can select from a variety of Mounting brackets option to fit your application needs and build environment
There are a variety of Mounting bracket options available depending on cost and installation requirements.

QTG70ML / QTG70L



QTG70ML Series



QTGA70ML Series



High-volume buzzer module

QTG70ML Ø70mm Direct mount, LED Steady/Flashing

| Model number | Layers | Voltage | Certificates | Weight | Color |
|---|--------|-------------|--------------|--------|--|
| QTG70ML Steady | 1 | DC12V | | 0.42kg | ● R-Red |
| QTG70ML-BZ Steady w/built-in buzzer | | DC24V | | 0.42kg | |
| | | AC110V-220V | | 0.52kg | |
| QTG70MLF Steady/Flashing | 2 | DC12V | | 0.56kg | ● R-Red ● G-Green |
| QTG70MLF-BZ Steady/Flashing w/ built-in buzzer | | DC24V | | 0.56kg | |
| | | AC110V-220V | | 0.66kg | |
| QTGA70ML Steady | 3 | DC12V | CE UL | 0.77kg | ● R-Red ● A-Amber ● G-Green |
| QTGA70ML-BZ Steady w/built-in buzzer | | DC24V | | 0.77kg | |
| | | AC110V-220V | | 0.87kg | |
| QTGA70MLF Steady/Flashing | 4 | DC12V | | 0.92kg | ● R-Red ● A-Amber ● G-Green ● B-Blue |
| QTGA70MLF-BZ Steady/Flashing w/ built-in buzzer | | DC24V | | 0.92kg | |
| | | AC110V-220V | | 1.02kg | |
| | 5 | DC12V | | 1.07kg | ● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White |
| | | DC24V | | 1.07kg | |
| | | AC110V-220V | | 1.17kg | |

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

※ UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

| Voltage | DC12V | DC24V | AC110V-220V |
|-------------------------------|-------|-------|-------------|
| Light source current(1 layer) | 105mA | 70mA | Max.60mA |
| Buzzer current | 40mA | 75mA | Max.55mA |

Wiring Instructions

- External power line UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Customization

- DC24V voltage UL listed product
- M12 connector attached type
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)



Wall mount bracket
TWS80



Wall mount bracket
TWA80

Ordering Specifications

| QTG70ML | - | 3 | - | 110/220 | - | RAG |
|----------------|---|------------|---|---------------------|---|-----------|
| [Model number] | | [Layers] | | [Voltage] | | [Color] |
| QTG70ML | | 1-1 Layers | | 12-DC12V | | ● R-Red |
| QTG70ML-BZ | | 2-2 Layers | | 24-DC24V | | ● A-Amber |
| QTG70MLF | | 3-3 Layers | | 110/220-AC110V-220V | | ● G-Green |
| QTG70MLF-BZ | | 4-4 Layers | | | | ● B-Blue |
| QTGA70ML | | 5-5 Layers | | | | ○ W-White |
| QTGA70ML-BZ | | | | | | |
| QTGA70MLF | | | | | | |
| QTGA70MLF-BZ | | | | | | |

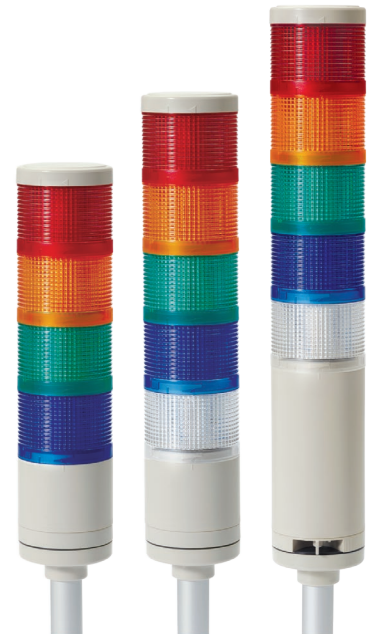


QTG70L Ø70mm Pole mount, LED Steady/Flashing

| Model number | Layers | Voltage | Certificates | Weight | Color |
|--------------------------|--------|-------------|--------------|--------|--|
| QTG70L Steady | 1 | DC12V | CE UL | 0.42kg | R-Red |
| QTG70L-BZ | | DC24V | | 0.42kg | |
| Steady w/built-in buzzer | | AC110V-220V | | 0.52kg | |
| QTG70LF | 2 | DC12V | | 0.56kg | R-Red G-Green |
| Steady/Flashing | | DC24V | | 0.56kg | |
| QTG70LF-BZ | | AC110V-220V | | 0.66kg | |
| QTG70LF-BZ | 3 | DC12V | | 0.77kg | R-Red A-Amber G-Green |
| Steady/Flashing | | DC24V | | 0.77kg | |
| w/ built-in buzzer | | AC110V-220V | | 0.87kg | |
| QTGA70L | 4 | DC12V | | 0.92kg | R-Red A-Amber G-Green B-Blue |
| Steady | | DC24V | | 0.92kg | |
| QTGA70L-BZ | | AC110V-220V | | 1.02kg | |
| Steady w/built-in buzzer | 5 | DC12V | | 1.07kg | R-Red A-Amber G-Green B-Blue W-White |
| QTGA70LF | | DC24V | | 1.07kg | |
| Steady/Flashing | | AC110V-220V | | 1.17kg | |
| QTGA70LF-BZ | | | | | |
| Steady/Flashing | | | | | |
| w/ built-in buzzer | | | | | |

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

※ UL Listed: DC24V



QTG70L Series

Light source/buzzer current(based on 1 layer)

| Voltage | DC12V | DC24V | AC110V-220V |
|-------------------------------|-------|-------|-------------|
| Light source current(1 layer) | 105mA | 70mA | Max.60mA |
| Buzzer current | 40mA | 75mA | Max.55mA |

Wiring Instructions

- External power line UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Mounting bracket

| Standard | LB24 | LW24 | QZ24 | SZ24 | QL24 | SL24 |
|----------|-------|------|------|------|------|------|
| | | | | | | |
| Steel | Steel | ABS | ABS | Al | ABS | Al |

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



QTGA70L Series

Ordering Specifications

| QTG70L | - | 3 | - | 110/220 | - | RAG | - | LW24 |
|----------------|---|------------|---|---------------------|---|---------|---|---------------|
| [Model number] | | [Layers] | | [Voltage] | | [Color] | | [Bracket] |
| QTG70L | | 1-1 Layers | | 12-DC12V | | R-Red | | None-Standard |
| QTG70L-BZ | | 2-2 Layers | | 24-DC24V | | A-Amber | | Bracket |
| QTG70LF | | 3-3 Layers | | 110/220-AC110V-220V | | G-Green | | -LB24 -LW24 |
| QTG70LF-BZ | | 4-4 Layers | | | | B-Blue | | -QZ24 -SZ24 |
| QTGA70L | | 5-5 Layers | | | | W-White | | -QL24 -SL24 |
| QTGA70L-BZ | | | | | | | | |
| QTGA70LF | | | | | | | | |
| QTGA70LF-BZ | | | | | | | | |

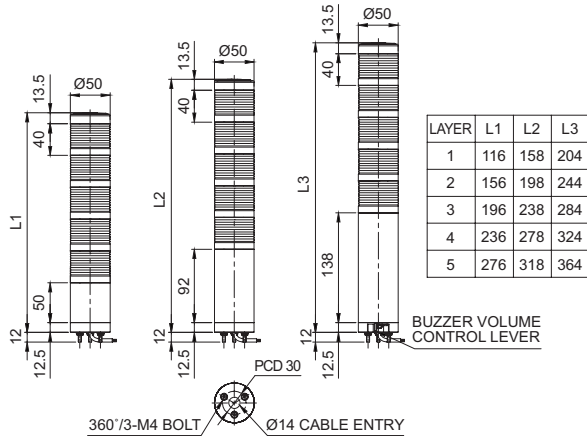
Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- DC24V voltage UL listed product
- M12 connector attached type
- Customized pole length available
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)

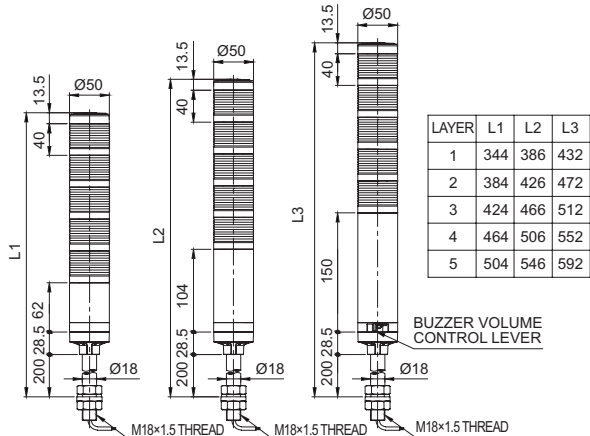
Technical Diagram

Units : mm

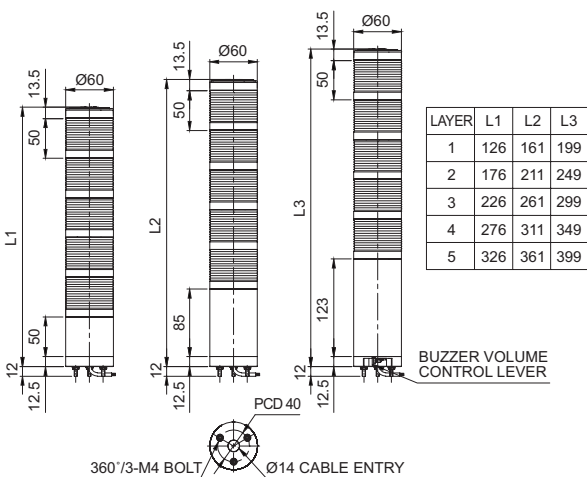
- QTG50ML-DC
- QTG50MLF-DC
- QTG50ML-BZ-DC
- QTG50ML-AC
- QTG50MLF-BZ-DC
- QTG50MLF-AC
- QTG50ML-BZ-AC
- QTG50MLF-BZ-AC



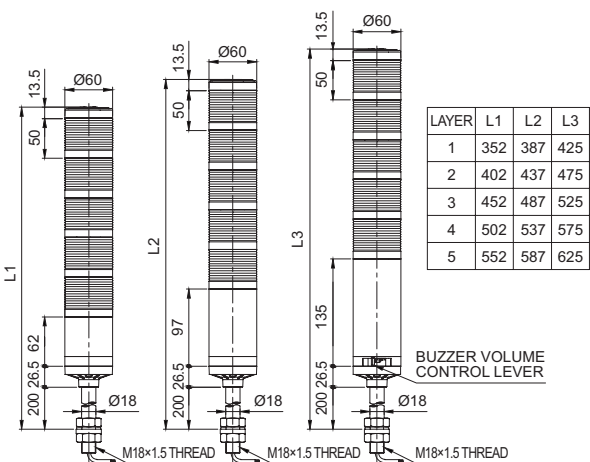
- QTG50L-DC
- QTG50LF-DC
- QTG50L-BZ-DC
- QTG50L-AC
- QTG50LF-BZ-DC
- QTG50LF-AC
- QTG50L-BZ-AC
- QTG50LF-BZ-AC



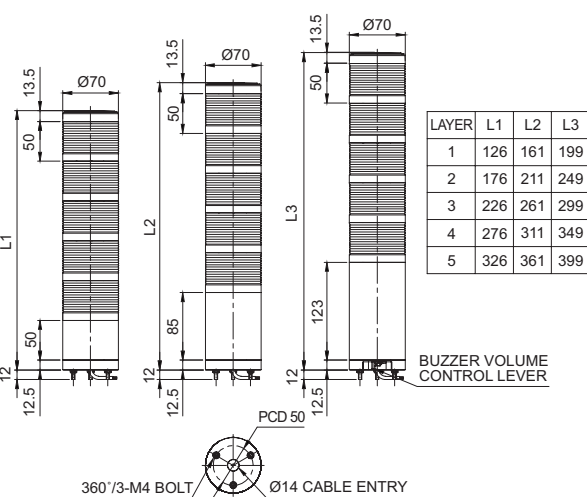
- QTG60ML-DC
- QTG60MLF-DC
- QTG60ML-BZ-DC
- QTG60ML-AC
- QTG60MLF-BZ-DC
- QTG60MLF-AC
- QTG60ML-BZ-AC
- QTG60MLF-BZ-AC



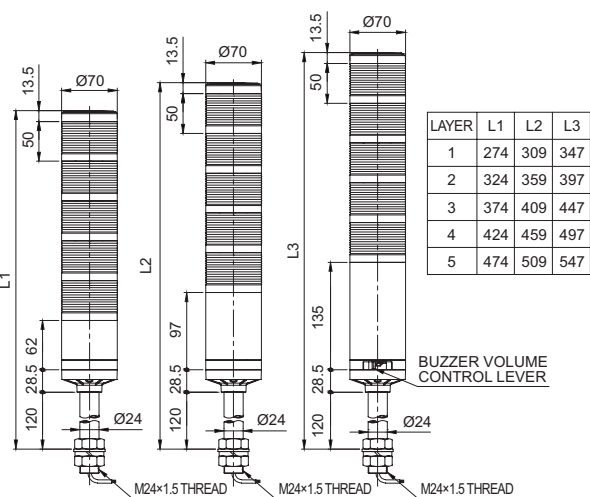
- QTG60L-DC
- QTG60LF-DC
- QTG60L-BZ-DC
- QTG60L-AC
- QTG60LF-BZ-DC
- QTG60LF-AC
- QTG60L-BZ-AC
- QTG60LF-BZ-AC



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



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

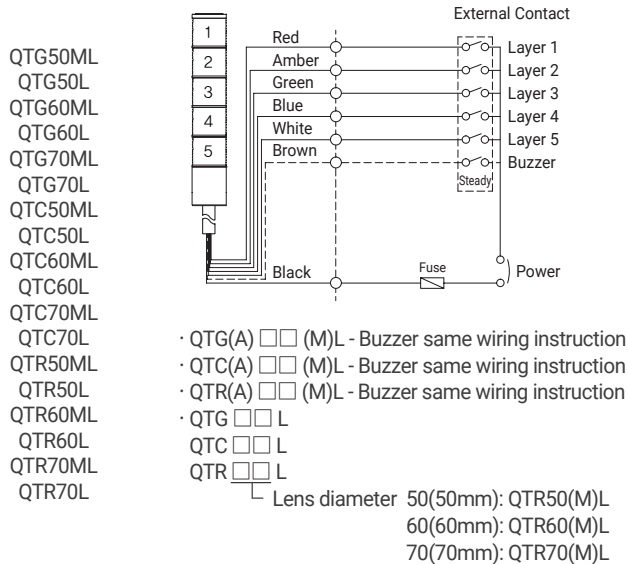


Wiring Instructions(using External Contact)

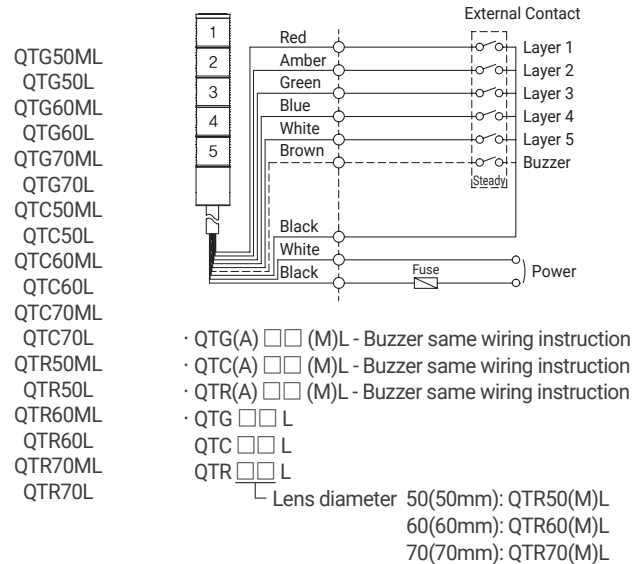
· In case of wiring with External Contacts, refer to the wiring diagrams below according to your product's type and voltage setting.

Wiring Instructions

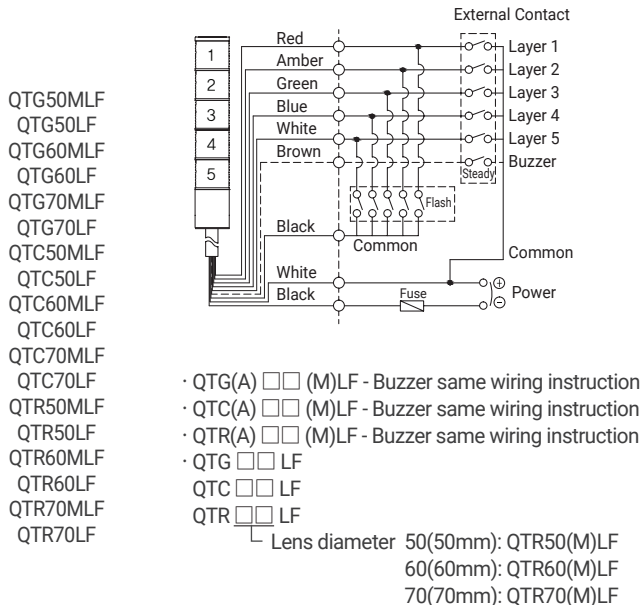
DC Steady



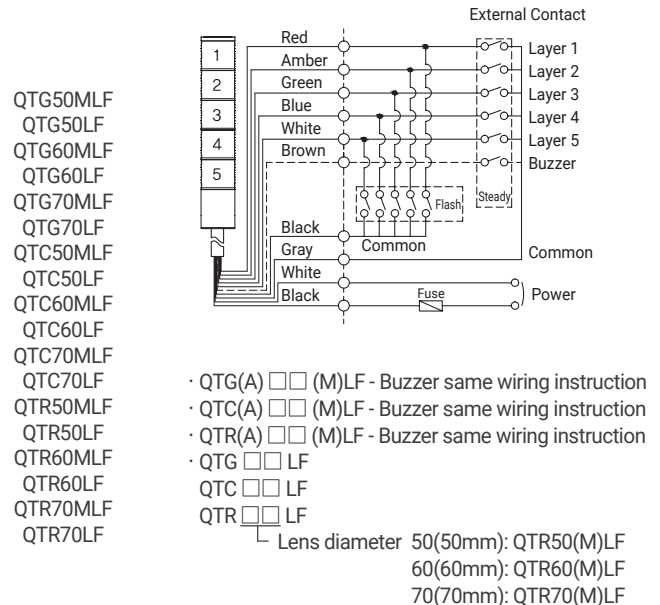
AC Steady



DC Steady/ Flashing



AC Steady/ Flashing



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

Wiring Instructions(using transistor)

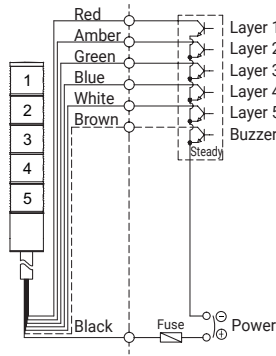
· In case of wiring with transistors, please select the proper transistor type : either NPN or PNP based on the source voltage setting.

Wiring Instructions

DC Steady

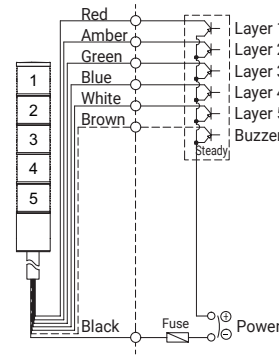
QTG50ML
QTG50L
QTG60ML
QTG60L
QTG70ML
QTG70L
QTC50ML
QTC50L
QTC60ML
QTC60L
QTC70ML
QTC70L
QTR50ML
QTR50L
QTR60ML
QTR60L
QTR70ML
QTR70L

External Transistor



- QTG(A) □□ (M)L - Buzzer same wiring instruction
- QTC(A) □□ (M)L - Buzzer same wiring instruction
- QTR(A) □□ (M)L - Buzzer same wiring instruction
- QTG □□ L
- QTC □□ L
- QTR □□ L
- └ Lens diameter 50(50mm): QTR50(M)L
60(60mm): QTR60(M)L
70(70mm): QTR70(M)L

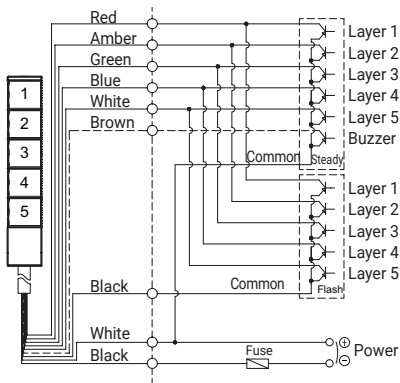
External Transistor



DC Steady/ Flashing

QTG50MLF
QTG50LF
QTG60MLF
QTG60LF
QTG70MLF
QTG70LF
QTC50MLF
QTC50LF
QTC60MLF
QTC60LF
QTC70MLF
QTC70LF
QTR50MLF
QTR50LF
QTR60MLF
QTR60LF
QTR70MLF
QTR70LF

External Transistor

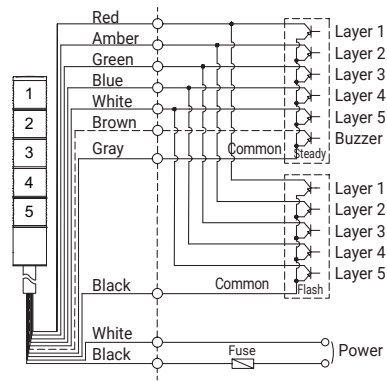


- QTG(A) □□ (M)LF - Buzzer same wiring instruction
- QTC(A) □□ (M)LF - Buzzer same wiring instruction
- QTR(A) □□ (M)LF - Buzzer same wiring instruction
- QTG □□ LF
- QTC □□ LF
- QTR □□ LF
- └ Lens diameter 50(50mm): QTR50(M)LF
60(60mm): QTR60(M)LF
70(70mm): QTR70(M)LF

AC Steady/ Flashing

QTG50MLF
QTG50LF
QTG60MLF
QTG60LF
QTG70MLF
QTG70LF
QTC50MLF
QTC50LF
QTC60MLF
QTC60LF
QTC70MLF
QTC70LF
QTR50MLF
QTR50LF
QTR60MLF
QTR60LF
QTR70MLF
QTR70LF

External Transistor



- QTG(A) □□ (M)LF - Buzzer same wiring instruction
- QTC(A) □□ (M)LF - Buzzer same wiring instruction
- QTR(A) □□ (M)LF - Buzzer same wiring instruction
- QTG □□ LF
- QTC □□ LF
- QTR □□ LF
- └ Lens diameter 50(50mm): QTR50(M)LF
60(60mm): QTR60(M)LF
70(70mm): QTR70(M)LF

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

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