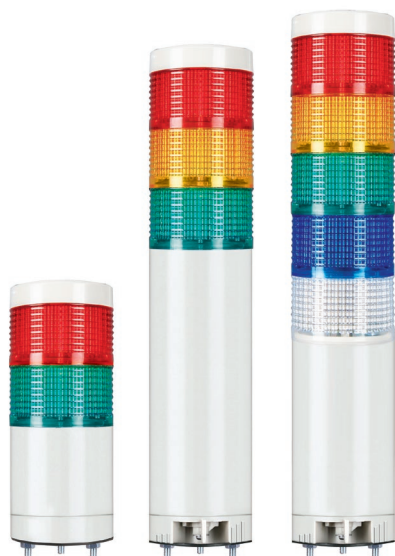


# STG50ML

## Ø50mm LED Steady/Flashing Tower Lights



STG50ML series

Buzzer model has a lever mounted at the bottom of the product to adjust the volume depending on the specific working conditions. (BZ type)



### Customization

- 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



Wall Mount Bracket TWS45



Wall Mount Bracket TWA45

### Cable end M12 connector attached type



- Customized cable end M12 connector attached type available.

### Common Specifications(STG50ML/ STG50L)

- Ø50mm LED steady/flashing tower lights
- The special vertical contact structure of the lens allows for easy assembly and disassembly
- Built-in buzzer available upon request: audible signal can be delivered
- Transistors can be connected and can be operated on PLC directly
- Flashing rate : 60-80 flashes/min
- Customized color arrangement available(LED light distribution system and lens is integrated into a combined structure)
- Materials : Lens-AS, Housing-ABS, Pole-Al
- Ambient operating temperature : -30°C to +60°C
- Protection rating : Standard type-IP65, Built-in buzzer type-IP54
- Certificates : CE Compliant, UL Listed
- Pre-wired is standard Can customize the product with the M12 connector if requested
- Compliant with RoHS directive

### STG50ML Ø50mm Direct Mount Type

| Model number   | Layer | Voltage                             | Current                         | Certificates               | Weight   | Color                             |
|--|-------|-------------------------------------|---------------------------------|----------------------------|--|-----------------------------------|
| STG50ML<br>Steady<br>STG50ML-BZ<br>Steady w/<br>built-in buzzer<br>STG50MLF<br>Steady/Flashing<br>STG50MLF-BZ<br>Steady/Flashing<br>/w built-in buzzer | 1     | AC/DC12V<br>AC/DC24V<br>AC110V-220V | 0.055A<br>0.050A<br>Max. 0.040A | CE<br>DC only              | 0.20kg<br>0.20kg<br>0.22kg                                 | ● R-Red                           |
|  | 2     | AC/DC12V<br>AC/DC24V<br>AC110V-220V | 0.110A<br>0.100A<br>Max. 0.050A |                            | 0.28kg<br>0.28kg<br>0.30kg                                 | ● R-Red<br>● G-Green              |
|  | 3     | AC/DC12V<br>AC/DC24V<br>AC110V-220V | 0.165A<br>0.150A<br>Max. 0.060A | UL<br>DC24V only           | 0.36kg<br>0.36kg<br>0.38kg                                 | ● R-Red<br>● A-Amber<br>● G-Green |
|  | 4     | AC/DC12V<br>AC/DC24V<br>AC110V-220V | 0.220A<br>0.200A<br>Max. 0.070A | 0.45kg<br>0.45kg<br>0.47kg | ● R-Red<br>● A-Amber<br>● G-Green<br>● B-Blue              |                                   |
|  | 5     | AC/DC12V<br>AC/DC24V<br>AC110V-220V | 0.275A<br>0.250A<br>Max. 0.080A | 0.53kg<br>0.53kg<br>0.55kg | ● R-Red<br>● A-Amber<br>● G-Green<br>● B-Blue<br>● W-White |                                   |

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

### Signal/ Audible Line Current(per each layer)

| Voltage              | AC/DC12V | AC/DC24V | AC110V-220V |
|----------------------|----------|----------|-------------|
| Signal line current  | 0.055A   | 0.050A   | Max. 0.040A |
| Audible line current | 0.045A   | 0.065A   | Max. 0.045A |

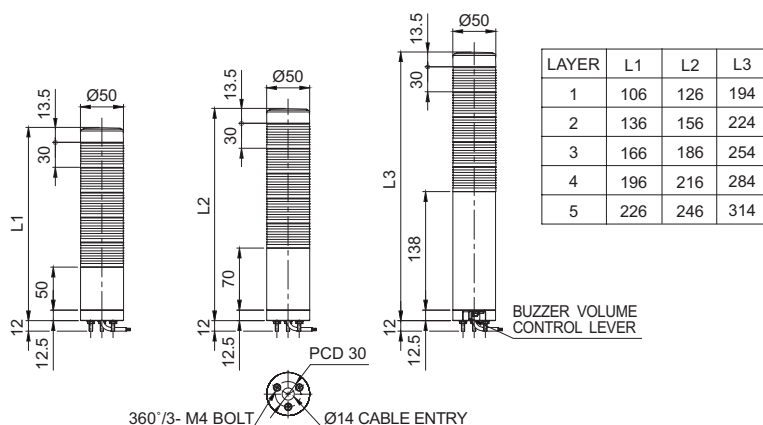
### Technical Diagram

(Units : mm)

STG50ML : DC  
STG50MLF : DC  
STG50ML-BZ : DC

STG50MLF-BZ : DC

STG50ML : AC  
STG50MLF : AC  
STG50ML-BZ : AC  
STG50MLF-BZ : AC



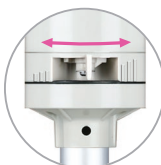
# STG50L

## Ø50mm LED Steady/Flashing Tower Lights



STG50L series

Buzzer model has a lever mounted at the bottom of the product to adjust the volume depending on the specific working conditions. (BZ type)



### Customization

- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
- Customized pole length available

### Mounting Bracket

|          |       |      |       |
|----------|-------|------|-------|
| Standard | LB18  | LW18 | QZ18  |
|          |       |      |       |
| Steel    | Steel | PC   | PC    |
| SZ18     | QL18  | SL18 | QLA18 |
|          |       |      |       |
| Al       | PC    | Al   | PC    |

※ Please refer to page 190-195 for detailed dimensions.

## STG50L Ø50mm Pole Mount Type

| Model number   | Layer | Voltage                             | Current                         | Certificates                         | Weight                     | Color  |
|--|-------|-------------------------------------|---------------------------------|--------------------------------------|----------------------------|--|
| STG50L<br>Steady<br>STG50L-BZ<br>Steady w/<br>built-in buzzer<br>STG50LF<br>Steady/Flashing<br>STG50LF-BZ<br>Steady/Flashing<br>/w built-in buzzer | 1     | AC/DC12V<br>AC/DC24V<br>AC110V-220V | 0.055A<br>0.050A<br>Max. 0.040A | <br>DC only<br><br><br>DC24V<br>only | 0.36kg<br>0.36kg<br>0.38kg | • R-Red  |
|  | 2     | AC/DC12V<br>AC/DC24V<br>AC110V-220V | 0.110A<br>0.100A<br>Max. 0.050A |                                      | 0.43kg<br>0.43kg<br>0.45kg | • R-Red<br>• G-Green                                       |
|  | 3     | AC/DC12V<br>AC/DC24V<br>AC110V-220V | 0.165A<br>0.150A<br>Max. 0.060A |                                      | 0.53kg<br>0.53kg<br>0.55kg | • R-Red<br>• A-Amber<br>• G-Green                          |
|  | 4     | AC/DC12V<br>AC/DC24V<br>AC110V-220V | 0.220A<br>0.200A<br>Max. 0.070A |                                      | 0.59kg<br>0.59kg<br>0.61kg | • R-Red<br>• A-Amber<br>• G-Green<br>• B-Blue              |
|  | 5     | AC/DC12V<br>AC/DC24V<br>AC110V-220V | 0.275A<br>0.250A<br>Max. 0.080A |                                      | 0.67kg<br>0.67kg<br>0.69kg | • R-Red<br>• A-Amber<br>• G-Green<br>• B-Blue<br>• W-White |

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

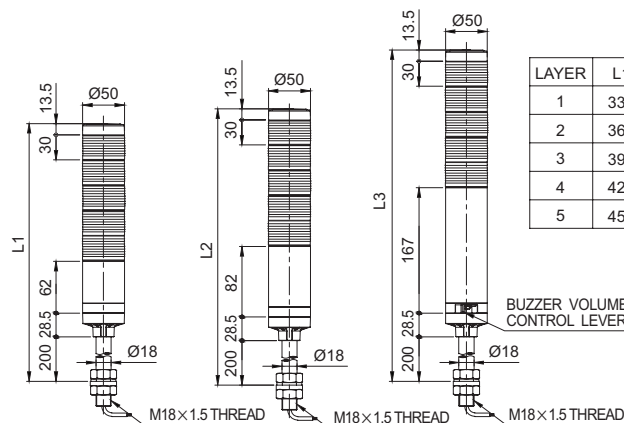
### Technical Diagram

(Units : mm)

STG50L : DC  
STG50LF : DC  
STG50L-BZ : DC

STG50LF-BZ : DC

STG50L : AC  
STG50LF : AC  
STG50L-BZ : AC  
STG50LF-BZ : AC



### Wiring Instructions

- External power line : UL1015 AWG18(0.75sq)x2C 400mm
- External signal line : UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and external contact

※ Please refer to page 62-63 for detailed wiring instructions.

### Ordering Specification

|  |   |  |   |   |   |  |   |  |
|--|---|--|---|---|---|--|---|--|
| <b>STG50L</b>  | - | <b>3</b>   | - | <b>24</b>   | - | <b>RAG</b>   | - | <b>LW18</b>  |
| [Model number]   |   | [Layer]  |   | [Voltage]   |   | [Color]  |   | [Mounting bracket]   |
| <ul style="list-style-type: none"> <li>• STG50ML</li> <li>• STG50ML-BZ</li> <li>• STG50MLF</li> <li>• STG50MLF-BZ</li> <li>• STG50L</li> <li>• STG50L-BZ</li> <li>• STG50LF</li> <li>• STG50LF-BZ</li> </ul> |   | <ul style="list-style-type: none"> <li>• 1-1Layer</li> <li>• 2-2Layers</li> <li>• 3-3Layers</li> <li>• 4-4Layers</li> <li>• 5-5Layers</li> </ul> |   | <ul style="list-style-type: none"> <li>• 12-DC12V</li> <li>• 24-DC24V</li> <li>• 110/220</li> <li>• -AC110V-220V</li> </ul> |   | <ul style="list-style-type: none"> <li>• R-Red</li> <li>• A-Amber</li> <li>• G-Green</li> <li>• B-Blue</li> <li>• W-White</li> </ul> |   | <ul style="list-style-type: none"> <li>• None -Standard</li> <li>• Bracket</li> <li>-LB18 -LW18</li> <li>-QZ18 -SZ18</li> <li>-QL18 -SL18</li> <li>-QLA18</li> </ul> |

# STG series

## LED Steady/Flashing Tower Lights



### Wiring Instructions(using transistor)

• Please wiring based below instruction in case of using external contact.

| Applied products   | Wiring Instructions  | Applied products   | Wiring Instructions  |
|--------------------|--|--------------------|--|
| DC Steady          | <p>EXTERNAL CONTACT</p> <p>Red(R) Layer 1<br/>Amber(A) Layer 2<br/>Green(G) Layer 3<br/>Blue(B) Layer 4<br/>White(W) Layer 5<br/>Brown(BN) Buzzer<br/>Black(BK) Fuse Power</p> <p>STG40ML<br/>STG40L<br/>STG50ML<br/>STG50L</p> <ul style="list-style-type: none"> <li>• STGXXML - Same wiring including buzzer type</li> <li>• STGXXL - Same wiring including buzzer type</li> <li>• STGXXL <ul style="list-style-type: none"> <li>└ Lens diameter 40(40mm) : STG40(M)L</li> <li>50(50mm) : STG50(M)L</li> </ul> </li> </ul>                              | AC Steady          | <p>EXTERNAL CONTACT</p> <p>Red(R) Layer 1<br/>Amber(A) Layer 2<br/>Green(G) Layer 3<br/>Blue(B) Layer 4<br/>White(W) Layer 5<br/>Brown(BN) Buzzer<br/>Black(BK) Common<br/>White(W) Fuse Power</p> <p>STG40ML<br/>STG40L<br/>STG50ML<br/>STG50L</p> <ul style="list-style-type: none"> <li>• STGXXML - Same wiring including buzzer type</li> <li>• STGXXL - Same wiring including buzzer type</li> <li>• STGXXL <ul style="list-style-type: none"> <li>└ Lens diameter 40(40mm) : STG40(M)L</li> <li>50(50mm) : STG50(M)L</li> </ul> </li> </ul>                              |
| DC Steady/Flashing | <p>EXTERNAL CONTACT</p> <p>Red(R) Layer 1<br/>Amber(A) Layer 2<br/>Green(G) Layer 3<br/>Blue(B) Layer 4<br/>White(W) Layer 5<br/>Brown(BN) Buzzer<br/>Black(BK) Common<br/>White(W) Fuse Power</p> <p>STG40MLF<br/>STG40LF<br/>STG50MLF<br/>STG50LF</p> <ul style="list-style-type: none"> <li>• STGXXMLF - Same wiring including buzzer type</li> <li>• STGXXLF - Same wiring including buzzer type</li> <li>• STGXXLF <ul style="list-style-type: none"> <li>└ Lens diameter 40(40mm) : STG40(M)LF</li> <li>50(50mm) : STG50(M)LF</li> </ul> </li> </ul> | AC Steady/Flashing | <p>EXTERNAL CONTACT</p> <p>Red(R) Layer 1<br/>Amber(A) Layer 2<br/>Green(G) Layer 3<br/>Blue(B) Layer 4<br/>White(W) Layer 5<br/>Brown(BN) Buzzer<br/>Black(BK) Common<br/>Gray(GR) Common<br/>White(W) Fuse Power</p> <p>STG40MLF<br/>STG40LF<br/>STG50MLF<br/>STG50LF</p> <ul style="list-style-type: none"> <li>• STGXXMLF - Same wiring including buzzer type</li> <li>• STGXXLF - Same wiring including buzzer type</li> <li>• STGXXLF <ul style="list-style-type: none"> <li>└ Lens diameter 40(40mm) : STG40(M)LF</li> <li>50(50mm) : STG50(M)LF</li> </ul> </li> </ul> |

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

# STG series

## LED Steady/Flashing Tower Lights



### Wiring Instructions(using transistor)

• In case of wiring by transistor, please make sure if it is NPN type or PNP type. Please carefully follow wiring instructions below.

| Applied products                           | Wiring Instructions  |  |  |
|--|--|--|--|
| DC Steady                                  | <p>EXTERNAL TRANSISTOR-NPN</p> <p>EXTERNAL TRANSISTOR-PNP</p>  |  |  |
| STG40ML<br>STG40L<br>STG50ML<br>STG50L     | <ul style="list-style-type: none"> <li>• STGXXML - Same wiring including buzzer type</li> <li>• STGXXL - Same wiring including buzzer type</li> <li>• STGXXL <ul style="list-style-type: none"> <li>└ Lens diameter 40(40mm) : STG40(M)L</li> <li>50(50mm) : STG50(M)L</li> </ul> </li> </ul>      |  |  |
| Applied products                           | Wiring Instructions  | Applied products                           | Wiring Instructions  |
| DC Steady/Flashing                         | <p>EXTERNAL TRANSISTOR-PNP</p>   | AC Steady/Flashing                         | <p>EXTERNAL TRANSISTOR-PNP</p>   |
| STG40MLF<br>STG40LF<br>STG50MLF<br>STG50LF | <ul style="list-style-type: none"> <li>• STGXXMLF - Same wiring including buzzer type</li> <li>• STGXXLF - Same wiring including buzzer type</li> <li>• STGXXLF <ul style="list-style-type: none"> <li>└ Lens diameter 40(40mm) : STG40(M)LF</li> <li>50(50mm) : STG50(M)LF</li> </ul> </li> </ul> | STG40MLF<br>STG40LF<br>STG50MLF<br>STG50LF | <ul style="list-style-type: none"> <li>• STGXXMLF - Same wiring including buzzer type</li> <li>• STGXXLF - Same wiring including buzzer type</li> <li>• STGXXLF <ul style="list-style-type: none"> <li>└ Lens diameter 40(40mm) : STG40(M)LF</li> <li>50(50mm) : STG50(M)LF</li> </ul> </li> </ul> |

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