

# Altech Corp.®

*Serving the Automation & Control Industry since 1984*

Certified System



ISO 9001  
QMI-SAI Global



## TOWER LIGHTS

# TOWER LIGHTS

**Choose  
Different  
Colors  
& Set Your  
Own Combination**



**Altech Corp.®**  
**TOWERLights**

- Sleek, stackable design
- SMD LED technology
- Uniform, bright illumination
- Integrated LED Light Modules available in continuous, flashing and rotary versions
- Flexibility to upgrade from Single LED unit to multiple LED units
- IP65 protection
- Wide voltage range from 12V AC/DC to 240V AC
- Optional Buzzer feature with dual sound mode - continuous & intermittent with 80 DB output

## INTERNATIONAL APPROVALS



The UL standards extend to:

NEMA Type: 1 | 2 | 3 | 3R | 4 | 4X | 12 | 13

Indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water, and damage from external ice formation.

## TECHNICAL INFORMATION

|                        |                                                                   |
|------------------------|-------------------------------------------------------------------|
| Outer Diameter         | Ø50mm                                                             |
| Degree of Protection   | IP65, NEMA Type 4X and 13, UL 508                                 |
| LED Type               | SMD                                                               |
| Unit Color             | Red / Green / Amber / Blue / White                                |
| Unit Signalling Effect | Continuous, Blinking & Revolving                                  |
| Buzzer Color           | Black                                                             |
| Buzzer Mode            | 80dB ± 5dB                                                        |
| Sounding Mode          | Continuous & Intermittent                                         |
| Available Voltages     | 12V AC/DC; 24V AC/DC<br>120V AC; 240V AC                          |
| Voltage Tolerance      | ±10% of rated voltage                                             |
| Operating Temperature  | -30°C to 60°C                                                     |
| Surge Test             | 2 KV                                                              |
| HV Test for 60 Seconds | 1.5 KV                                                            |
| Current Rating         | 20-40mA for 12V AC/DC; 24V AC/DC<br>10-20mA for 120V AC & 240V AC |

## DIMENSIONS



## BASES AND CAP

Short Base



Tall Base



Cap



Terminal Holder



Terminal Holder Cover



| Part No. | Description         | Std. Pack |
|----------|---------------------|-----------|
| TL5001   | Short Base, Plastic | 1         |
| TL5002   | Tall Base, Plastic  | 1         |

### Accessories

| Part No. | Description                        | Std. Pack |
|----------|------------------------------------|-----------|
| TL12004  | Upper Cap for Tower Light, Plastic | 1         |
| TL122002 | Terminal Holder, Plastic           | 1         |
| TL122003 | Terminal Holder Cover, Plastic     | 1         |

NOTE: All bases come with Cap, Terminal Holder and Terminal Holder Cover.

## SOUND MODULE

Buzzer



| Part No. | Description               | Voltage   | Mode               | Approvals   | Std. Pack |
|----------|---------------------------|-----------|--------------------|-------------|-----------|
| TL50Z1U  | 50mm Sound Module, Buzzer | 24V AC/DC | Continuous, 80dB   | UL cUL NEMA | 1         |
| TL50Z2U  | 50mm Sound Module, Buzzer | 24V AC/DC | Intermittent, 80dB | UL cUL NEMA | 1         |
| TL50Z1W  | 50mm Sound Module, Buzzer | 120V AC   | Continuous, 80dB   | UL cUL NEMA | 1         |
| TL50Z2W  | 50mm Sound Module, Buzzer | 120V AC   | Intermittent, 80dB | UL cUL NEMA | 1         |
| TL50Z1X  | 50mm Sound Module, Buzzer | 240V AC   | Continuous, 80dB   | UL cUL NEMA | 1         |
| TL50Z2X  | 50mm Sound Module, Buzzer | 240V AC   | Intermittent, 80dB | UL cUL NEMA | 1         |
| TL50Z1T  | 50mm Sound Module, Buzzer | 12V AC/DC | Continuous, 80dB   |             | 1         |
| TL50Z2T  | 50mm Sound Module, Buzzer | 12V AC/DC | Intermittent, 80dB |             | 1         |

\*Cap included with sound module and not removable.

## Online Part Builder

To build your tower light go to  
[www.altechcorp.com/towerlights](http://www.altechcorp.com/towerlights).

Download our interactive EXCEL file to easily build the appropriate tower light part number for your documentation **A** reference and receive a list of components to order and build your specific tower light. **B**

**Altech Corp. Tower Light Creator**

Your Part Number is: **TW 2 U** **A**

Your Tower Light: Tower Light, 50mm, Tall Base **B** Part Number to Order: TL5002

Mounting Base Size: Big Base

Voltage: 24V AC/DC

Number of Units: 1

Lens Color/Type: None Mode: None

Lens Color/Type: None Mode: None

Lens Color/Type: None Mode: None

Lens Color/Type: None Mode: None

Lens Color/Type: None Mode: None

Lens Color/Type: None Mode: None

For price information please call Altech or contact your nearest outside representative.

[www.altechcorp.com](http://www.altechcorp.com)  
[info@altechcorp.com](mailto:info@altechcorp.com)

Repeat for all required units.

7. The yellow field on the top displays the selected tower light part number.

8. In the orange box above is a list of components to order and build your selected tower light.

# LENS MODULES



|           | Part No. | Description                 | Color | Mode           | Approvals | Std. Pack |
|-----------|----------|-----------------------------|-------|----------------|-----------|-----------|
| 12 VOLTS  | TL50LA1T | 12V AC/DC, 50mm Lens Module | Amber | Continuous LED | ☐ NEMA    | 1         |
|           | TL50LB1T | 12V AC/DC, 50mm Lens Module | Blue  | Continuous LED | ☐ NEMA    | 1         |
|           | TL50LG1T | 12V AC/DC, 50mm Lens Module | Green | Continuous LED | ☐ NEMA    | 1         |
|           | TL50LR1T | 12V AC/DC, 50mm Lens Module | Red   | Continuous LED | ☐ NEMA    | 1         |
|           | TL50LW1T | 12V AC/DC, 50mm Lens Module | White | Continuous LED | ☐ NEMA    | 1         |
|           | TL50LA2T | 12V AC/DC, 50mm Lens Module | Amber | Flashing LED   | ☐ NEMA    | 1         |
|           | TL50LB2T | 12V AC/DC, 50mm Lens Module | Blue  | Flashing LED   | ☐ NEMA    | 1         |
|           | TL50LG2T | 12V AC/DC, 50mm Lens Module | Green | Flashing LED   | ☐ NEMA    | 1         |
|           | TL50LR2T | 12V AC/DC, 50mm Lens Module | Red   | Flashing LED   | ☐ NEMA    | 1         |
|           | TL50LW2T | 12V AC/DC, 50mm Lens Module | White | Flashing LED   | ☐ NEMA    | 1         |
|           | TL50LA3T | 12V AC/DC, 50mm Lens Module | Amber | Rotating LED   | ☐ NEMA    | 1         |
|           | TL50LB3T | 12V AC/DC, 50mm Lens Module | Blue  | Rotating LED   | ☐ NEMA    | 1         |
|           | TL50LG3T | 12V AC/DC, 50mm Lens Module | Green | Rotating LED   | ☐ NEMA    | 1         |
|           | TL50LR3T | 12V AC/DC, 50mm Lens Module | Red   | Rotating LED   | ☐ NEMA    | 1         |
|           | TL50LW3T | 12V AC/DC, 50mm Lens Module | White | Rotating LED   | ☐ NEMA    | 1         |
| 24 VOLTS  | TL50LA1U | 24V AC/DC, 50mm Lens Module | Amber | Continuous LED | ☐ ☐ NEMA  | 1         |
|           | TL50LB1U | 24V AC/DC, 50mm Lens Module | Blue  | Continuous LED | ☐ ☐ NEMA  | 1         |
|           | TL50LG1U | 24V AC/DC, 50mm Lens Module | Green | Continuous LED | ☐ ☐ NEMA  | 1         |
|           | TL50LR1U | 24V AC/DC, 50mm Lens Module | Red   | Continuous LED | ☐ ☐ NEMA  | 1         |
|           | TL50LW1U | 24V AC/DC, 50mm Lens Module | White | Continuous LED | ☐ ☐ NEMA  | 1         |
|           | TL50LA2U | 24V AC/DC, 50mm Lens Module | Amber | Flashing LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LB2U | 24V AC/DC, 50mm Lens Module | Blue  | Flashing LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LG2U | 24V AC/DC, 50mm Lens Module | Green | Flashing LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LR2U | 24V AC/DC, 50mm Lens Module | Red   | Flashing LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LW2U | 24V AC/DC, 50mm Lens Module | White | Flashing LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LA3U | 24V AC/DC, 50mm Lens Module | Amber | Rotating LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LB3U | 24V AC/DC, 50mm Lens Module | Blue  | Rotating LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LG3U | 24V AC/DC, 50mm Lens Module | Green | Rotating LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LR3U | 24V AC/DC, 50mm Lens Module | Red   | Rotating LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LW3U | 24V AC/DC, 50mm Lens Module | White | Rotating LED   | ☐ ☐ NEMA  | 1         |
| 120 VOLTS | TL50LA1W | 120V AC, 50mm Lens Module   | Amber | Continuous LED | ☐ ☐ NEMA  | 1         |
|           | TL50LB1W | 120V AC, 50mm Lens Module   | Blue  | Continuous LED | ☐ ☐ NEMA  | 1         |
|           | TL50LG1W | 120V AC, 50mm Lens Module   | Green | Continuous LED | ☐ ☐ NEMA  | 1         |
|           | TL50LR1W | 120V AC, 50mm Lens Module   | Red   | Continuous LED | ☐ ☐ NEMA  | 1         |
|           | TL50LW1W | 120V AC, 50mm Lens Module   | White | Continuous LED | ☐ ☐ NEMA  | 1         |
|           | TL50LA2W | 120V AC, 50mm Lens Module   | Amber | Flashing LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LB2W | 120V AC, 50mm Lens Module   | Blue  | Flashing LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LG2W | 120V AC, 50mm Lens Module   | Green | Flashing LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LR2W | 120V AC, 50mm Lens Module   | Red   | Flashing LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LW2W | 120V AC, 50mm Lens Module   | White | Flashing LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LA3W | 120V AC, 50mm Lens Module   | Amber | Rotating LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LB3W | 120V AC, 50mm Lens Module   | Blue  | Rotating LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LG3W | 120V AC, 50mm Lens Module   | Green | Rotating LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LR3W | 120V AC, 50mm Lens Module   | Red   | Rotating LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LW3W | 120V AC, 50mm Lens Module   | White | Rotating LED   | ☐ ☐ NEMA  | 1         |
| 240 VOLTS | TL50LA1X | 240V AC, 50mm Lens Module   | Amber | Continuous LED | ☐ ☐ NEMA  | 1         |
|           | TL50LB1X | 240V AC, 50mm Lens Module   | Blue  | Continuous LED | ☐ ☐ NEMA  | 1         |
|           | TL50LG1X | 240V AC, 50mm Lens Module   | Green | Continuous LED | ☐ ☐ NEMA  | 1         |
|           | TL50LR1X | 240V AC, 50mm Lens Module   | Red   | Continuous LED | ☐ ☐ NEMA  | 1         |
|           | TL50LW1X | 240V AC, 50mm Lens Module   | White | Continuous LED | ☐ ☐ NEMA  | 1         |
|           | TL50LA2X | 240V AC, 50mm Lens Module   | Amber | Flashing LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LB2X | 240V AC, 50mm Lens Module   | Blue  | Flashing LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LG2X | 240V AC, 50mm Lens Module   | Green | Flashing LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LR2X | 240V AC, 50mm Lens Module   | Red   | Flashing LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LW2X | 240V AC, 50mm Lens Module   | White | Flashing LED,  | ☐ ☐ NEMA  | 1         |
|           | TL50LA3X | 240V AC, 50mm Lens Module   | Amber | Rotating LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LB3X | 240V AC, 50mm Lens Module   | Blue  | Rotating LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LG3X | 240V AC, 50mm Lens Module   | Green | Rotating LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LR3X | 240V AC, 50mm Lens Module   | Red   | Rotating LED   | ☐ ☐ NEMA  | 1         |
|           | TL50LW3X | 240V AC, 50mm Lens Module   | White | Rotating LED   | ☐ ☐ NEMA  | 1         |

# TOWER LIGHTS

## Ordering Information (Components sold individually)

|               | DESCRIPTION     | CODE |    |   |   |   |   |   |   |   |   |   |   |
|---------------|-----------------|------|----|---|---|---|---|---|---|---|---|---|---|
| Tower Light   |                 | TW   | TW | 1 | U | R | 1 | G | 1 | A | 2 | B | 1 |
| Base          | Small Base (SB) | 1    |    |   |   |   |   |   |   |   |   |   |   |
|               | Big Base (BB)   | 2    |    |   |   |   |   |   |   |   |   |   |   |
| Voltage       | 240V AC         | X    |    |   |   |   |   |   |   |   |   |   |   |
|               | 120V AC         | W    |    |   |   |   |   |   |   |   |   |   |   |
|               | 24V AC/DC       | U    |    |   |   |   |   |   |   |   |   |   |   |
|               | 12V AC/DC       | T    |    |   |   |   |   |   |   |   |   |   |   |
| Unit Color    | Red             | R    |    |   |   |   |   |   |   |   |   |   |   |
|               | Green           | G    |    |   |   |   |   |   |   |   |   |   |   |
|               | Amber           | A    |    |   |   |   |   |   |   |   |   |   |   |
|               | Blue            | B    |    |   |   |   |   |   |   |   |   |   |   |
|               | White           | W    |    |   |   |   |   |   |   |   |   |   |   |
| Luminous Mode | Continuous      | 1    |    |   |   |   |   |   |   |   |   |   |   |
|               | Blinking        | 2    |    |   |   |   |   |   |   |   |   |   |   |
|               | Revolving       | 3    |    |   |   |   |   |   |   |   |   |   |   |
| Sound Module  | Continuous      | Z1   |    |   |   |   |   |   |   |   |   |   |   |
|               | Intermittent    | Z2   |    |   |   |   |   |   |   |   |   |   |   |

Example:  
**Cat. No. TW1UR1G1A2B1**  
 Description  
 Tower Light with Small Base  
 24V AC/DC with Red, Green and Blue  
 Continuous Amber Blinking

Buzzer has to be used as last unit in the stack.  
 Maximum number of stacks is four.

## Standard Available Combinations

### Tower Light Without Buzzer

| Type         | Description                                                                                                                         | Part No.     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Single Stack | Tower light with small base<br>120V AC with red continuous<br>illumination                                                          | TW1WR1       |
| Single Stack | Tower light with small base<br>120V AC with red blinking<br>illumination                                                            | TW1WR2       |
| Two Stack    | Tower light with small base<br>120V AC with red continuous<br>& green continuous illumination                                       | TW1WR1G1     |
| Two Stack    | Tower light with small base<br>24V AC/DC with red continuous<br>& green continuous illumination                                     | TW1UR2G2     |
| Three Stack  | Tower light with small base<br>120V AC with red continuous,<br>green continuous & blue continuous<br>illumination                   | TW1WR1G1B1   |
| Three Stack  | Tower light with small base<br>240V AC with green continuous,<br>blue continuous and red blinking<br>illumination                   | TW1XG1B1R2   |
| Four Stack   | Tower light with small base<br>120V AC with red continuous,<br>green continuous, blue continuous<br>& amber continuous illumination | TW1WR1G1B1A1 |

### Tower Light With Buzzer

| Type         | Description                                                                                                                          | Part No.     |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Single Stack | Tower light with small base<br>120V AC with buzzer continuous                                                                        | TW1WZ1       |
| Two Stack    | Tower light with small base<br>120V AC with red continuous<br>illumination & buzzer continuous                                       | TW1WR1Z1     |
| Two Stack    | Tower light with small base<br>24V AC/DC with red blinking<br>illumination & buzzer continuous                                       | TW1UR2Z1     |
| Three Stack  | Tower light with small base<br>120V AC/DC with red continuous,<br>green continuous illumination<br>& buzzer continuous               | TW1WR1G1Z1   |
| Three Stack  | Tower light with small base<br>24V AC/DC with red blinking,<br>green continuous illumination<br>& buzzer continuous                  | TW1UR2G1Z1   |
| Four Stack   | Tower light with small base<br>120V AC with red continuous,<br>green continuous, blue continuous<br>& buzzer continuous              | TW1WR1G1B1Z1 |
| Four Stack   | Tower light with small base<br>24V AC/DC with green continuous,<br>blue continuous, red blinking<br>illumination & buzzer continuous | TW1UG1B1R2Z1 |

Note: Mentioned products are available as ex-stock, for any special requirement please refer ordering information or contact Altech Corp.®.

# TOWER LIGHTS

## Technical Information

### Dimensions



### SOUND MODULE UNIT BLACK

(Cap is not removable)



### Assembly Mounting



### Electrical Wiring

#### STEP 1



**A.** Remove the two (2) M3 assembly screws and lift the base cover and gasket off exposing the terminal connections.

#### STEP 2

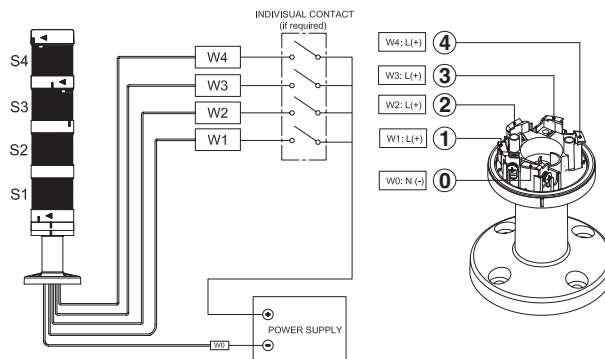


**B.** Insert the wires from the bottom of the base through the center hole in the base.  
**C.** The terminals are numbered and correspond to the module position.

|   |                              |
|---|------------------------------|
| 0 | common or negative (AC / DC) |
| 1 | module position 1            |
| 2 | module position 2            |
| 3 | module position 3            |
| 4 | module position 4            |

**D.** Insert the wires into the required terminations for the tower light and tighten to 0.5Nm (5lb\* in).

### Wiring Diagram



For proper installation and operation of the Tower Light please follow the instructions on both sides of product sheet included with each tower light.

# altechcorp.com

## Altech Corp.®

Quality  
Endorsed  
Company



ISO 9001:2008  
CERTIFICATE



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#### Circuit Protection



Circuit  
Protection  
Devices



Busbar  
and Power  
Distribution



Contactors,  
Overload  
Relays, Manual  
Motor Starters



Motor  
Disconnect  
Switches



European  
Fuses

#### Connectors



Industrial  
Rectangular  
Connectors



Pin & Sleeve  
Devices



Receptacles



Foot  
Switches



Inductive  
Proximity  
Sensors

#### Enclosures



Industrial  
Enclosures



DIN  
Enclosures



Interface  
Modules



Safety  
Relays



Slimline  
Relays

#### Power Supplies



Power  
Supplies



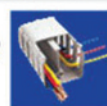
22 & 30 mm  
Push Buttons



DIN  
Rail



Liquid Tight  
Strain Reliefs/  
Corrugated  
Tubes



Wire Duct

#### Terminal Blocks



Din Rail  
Terminal  
Blocks



Panel Mount  
Terminal  
Blocks



Printed Circuit  
Board Terminal  
Blocks



Eurostrips



Distribution  
Blocks

#### Miscellaneous



Ferrules



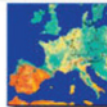
Custom  
Assembly



Marking &  
Engraving  
Systems



Power  
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European  
Spare Parts

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