

When you need reliable, high quality tower lights for all your signaling needs look to c3controls. Our Series WTL IEC World Tower Lights feature a 50mm (1-31/32") diameter space saving design that is stackable to allow up to four (4) modules in a single assembly. Easy to assemble and disassemble with low power consumption integrated LEDs – no complicated center posts. c3controls Series WTL IEC World Tower Lights will help reduce your total installed costs and enhance the features and performance of your equipment.

# IEC World TOWER LIGHTS

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NOTE: The scope (range, description, price, specifications, dimensions, etc.) of the product featured in this section is subject to change without notice. Refer to [www.c3controls.com](http://www.c3controls.com) for product updates.

**Conformity to Standards:**

UL 508  
IEC 60947-1, 60947-5-1

**Certifications:**

UL File #: E68568 (Guide NKCR, NKCR7)  
CE Marked (per EU Low Voltage Directive 2006/95/EC and 93/68/EEC)



Visit [www.c3controls.com](http://www.c3controls.com) to download product certifications.

Revision 03.31.10

## IT'S EASY TO BUILD YOUR OWN TOWER LIGHT

Simply pick the code number from each of the sections below and combine them to build your part number. See page 6 for more detailed directions.

### IEC World Tower Lights

WTL - 50 - - - - -  
I II III IV V\* VI\* VII\* VIII\*

Example: To build one of our most popular Tower Lights, the part number would be **WTL + 50 + III + IV + V + VI + VII + VIII** or **WTL-50P1-DDGDADR**

\*NOTE: Light and Sound Modules will be assembled vertically starting at the base. Sound Modules must be stacked in the last position and only one is allowed per assembly.



#### I. OPERATOR TYPE

CODE	DESCRIPTION	PRICE
WTL	IEC World Tower Light	\$ 5.00

#### II. MODULE DIAMETER

CODE	DESCRIPTION
50	50mm (1-31/32")

#### III. BASE MATERIAL & STYLE

CODE	DESCRIPTION	PRICE
P1	Plastic Short Base	\$ 30.00
P2	Plastic Tall Base	\$ 30.00

#### IV. VOLTAGE CODE

CODE	DESCRIPTION
MC	24V AC/DC
D	120V 60Hz / 110V 50Hz
F	240V 60Hz / 220V 50Hz

#### V. POSITION 1

CODE	DESCRIPTION	PRICE
DA	Continuous LED Light Module Amber	\$ 30.00
FA	Flashing LED Light Module Amber	\$ 39.00
RA	Rotary LED Light Module Amber	\$ 39.00
DB	Continuous LED Light Module Blue	\$ 30.00
FB	Flashing LED Light Module Blue	\$ 39.00
RB	Rotary LED Light Module Blue	\$ 39.00
DG	Continuous LED Light Module Green	\$ 30.00
FG	Flashing LED Light Module Green	\$ 39.00
RG	Rotary LED Light Module Green	\$ 39.00
DR	Continuous LED Light Module Red	\$ 30.00
FR	Flashing LED Light Module Red	\$ 39.00
RR	Rotary LED Light Module Red	\$ 39.00
DW	Continuous LED Light Module White	\$ 30.00
FW	Flashing LED Light Module White	\$ 39.00
RW	Rotary LED Light Module White	\$ 39.00
DS1	Continuous Sound Module 80dB	\$ 48.00
FS1	Intermittent Sound Module 80dB	\$ 48.00

NOTE: Sound module must be stacked in the last position and only one is allowed per assembly.

#### VI. POSITION 2

CODE	DESCRIPTION	PRICE
(Blank)	None	—
DA	Continuous LED Light Module Amber	\$ 30.00
FA	Flashing LED Light Module Amber	\$ 39.00
RA	Rotary LED Light Module Amber	\$ 39.00
DB	Continuous LED Light Module Blue	\$ 30.00
FB	Flashing LED Light Module Blue	\$ 39.00
RB	Rotary LED Light Module Blue	\$ 39.00
DG	Continuous LED Light Module Green	\$ 30.00
FG	Flashing LED Light Module Green	\$ 39.00
RG	Rotary LED Light Module Green	\$ 39.00
DR	Continuous LED Light Module Red	\$ 30.00
FR	Flashing LED Light Module Red	\$ 39.00
RR	Rotary LED Light Module Red	\$ 39.00
DW	Continuous LED Light Module White	\$ 30.00
FW	Flashing LED Light Module White	\$ 39.00
RW	Rotary LED Light Module White	\$ 39.00
DS1	Continuous Sound Module 80dB	\$ 48.00
FS1	Intermittent Sound Module 80dB	\$ 48.00

NOTE: Sound module must be stacked in the last position and only one is allowed per assembly.

#### VII. POSITION 3

(USE CHART VI FROM ABOVE)

#### VIII. POSITION 4

(USE CHART VI FROM ABOVE)

DISCOUNT  
SCHEDULE

**C**

MIX AND MATCH ANY COLOR LIGHT MODULE AND SOUND MODULE



## IEC WORLD TOWER LIGHTS

c3controls IEC World Tower Lights with super bright integrated LEDs are a reliable source for all your signaling needs. Available in 24V AC/DC, 120V AC, and 240V AC. Five (5) color lenses and LEDs are available with three styles of module illumination; continuous, flashing, and rotary. Continuous and intermittent sound modules available in 80dB output. All c3controls 50mm diameter Tower Lights are UL Listed and are rated Type 4/4X as standard for watertight and corrosion resistance. In addition, tower light assemblies are also listed for Type 1, 2, 3, 3R, 12 and 13, and IP65 for ingress protection.

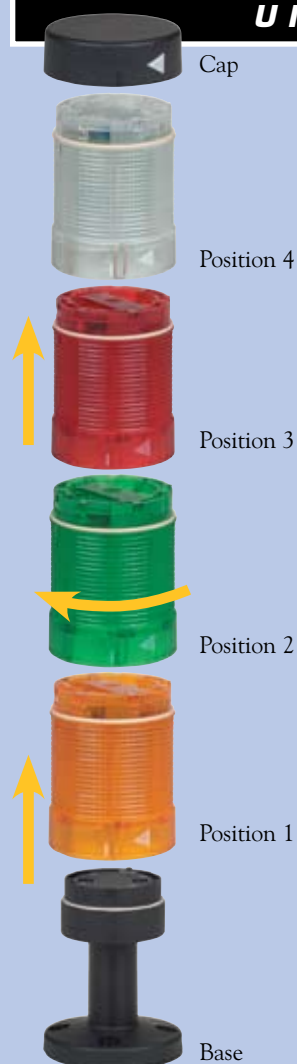


IEC WORLD TOWER LIGHTS

### UNIQUE PRODUCT FEATURES

#### INTEGRATED TOWER LIGHTS FOR EASY ASSEMBLY AND MAINTENANCE

1. Stackable design to allow up to four modules in a single assembly.
2. Heavy duty polyester construction for excellent durability, superior corrosion resistance, moisture rejection and electrical insulation.
3. Rugged polycarbonate lenses provide better visibility and can resist high impact for reliable performance in most environments, even in high temperature ambients.
4. Easy maintenance and assembly — simply line up the module marking and arrow and turn; 20° clockwise to tighten and 20° counter clockwise to loosen.
5. Continuous, flashing and rotary integrated LED light modules available — low power consumption for energy savings.
6. Available continuous or intermittent sound module with 80dB output.
7. Each module features a watertight seal that meets Type 4/4X standards.
8. Wiring is made simple with our integrated heavy-duty polyester bases, available in 2 heights; short and tall. No complicated center post required for construction — just wire to the terminals.
9. Mounts directly to panel utilizing a four hole mounting pattern [38mm (1-1/2")].
10. Rated Type 1, 2, 3, 3R, 4/4X, 12 and 13, and IP65 for ingress protection.



#### SOME OF OUR POPULAR CONFIGURATIONS:

IEC WORLD TOWER LIGHTS		
CATALOG NUMBER	DESCRIPTION	PRICE
WTL-50P1-DDGDADR	World Tower Light, 50mm Diameter, Short Base, 120V AC, Green Cont./Amber Cont./Red Cont.	\$125.00
WTL-50P1-MCDGDADR	World Tower Light, 50mm Diameter, Short Base, 24V AC/DC, Green Cont./Amber Cont./Red Cont.	\$125.00
WTL-50P2-DDGDR	World Tower Light, 50mm Diameter, Tall Base, 120V AC, Green Cont./Red Cont.	\$ 95.00
WTL-50P1-DDGFRDS1	World Tower Light, 50mm Diameter, Short Base, 120V AC, Green Cont./Red Flash/Sound Module Cont.	\$152.00




## LED LIGHT MODULES

Our integrated LED light modules space saving design allows you to stack up to four (4) modules in a single assembly. Low energy consumption LED lamps last 100,000 hours – that's 11.4 years! Rugged polycarbonate lenses available in five (5) colors provide better visibility and can resist high impact for reliable performance in most environments, even in high temperature ambients.



**NEW  
PRODUCT  
OFFERING!**

### Light Modules

WTL – 50 LM     
I II III IV V VI

#### I. OPERATOR TYPE

CODE	DESCRIPTION
WTL	IEC World Tower Light

#### II. MODULE DIAMETER

CODE	DESCRIPTION
50	50mm (1-31/32")

#### III. MODULE TYPE

CODE	DESCRIPTION	PRICE
LM	Light Module	\$30.00

#### IV. VOLTAGE CODE

CODE	DESCRIPTION
MC	24V AC/DC
D	120V 60Hz / 110V 50Hz
F	240V 60Hz / 220V 50Hz

#### V. LIGHT MODULE FUNCTION

CODE	DESCRIPTION	PRICE
D	Continuous	—
F	Flashing	\$ 9.00
R	Rotary	\$ 9.00

#### VI. LED LIGHT MODULE COLOR

CODE	DESCRIPTION
LA	Amber
LB	Blue
LG	Green
LR	Red
LW	White

## SOUND MODULES

Our low power consumption sound modules are available in continuous or intermittent with 80dB output. Rugged polycarbonate housing resists high impact for reliable performance in most environments, even in high temperature ambients. NOTE: Sound module must be stacked in the last position of a tower light assembly.



**NEW  
PRODUCT  
OFFERING!**

### Sound Modules

WTL – 50 SM1    
I II III IV V

#### I. OPERATOR TYPE

CODE	DESCRIPTION
WTL	IEC World Tower Light

#### II. MODULE DIAMETER

CODE	DESCRIPTION
50	50mm (1-31/32")

#### III. MODULE TYPE

CODE	DESCRIPTION	PRICE
SM1	Sound Module, 80dB	\$48.00

#### IV. VOLTAGE CODE

CODE	DESCRIPTION
MC	24V AC/DC
D	120V 60Hz / 110V 50Hz
F	240V 60Hz / 220V 50Hz

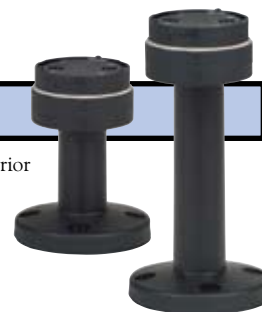
#### V. SOUND MODULE FUNCTION

CODE	DESCRIPTION
D	Continuous
F	Intermittent

DISCOUNT  
SCHEDULE **C**

## BASES

Available in two heights, 50mm short or 50mm tall, these heavy duty bases are constructed of polyester for excellent durability, superior corrosion resistance, moisture rejection and electrical insulation. Mounts directly to panel utilizing a four hole mounting pattern [38mm (1-1/2")]. UL Listed and are rated Type 1, 2, 3, 3R, 4/4X, 12, 13, and IP65 for the most demanding industrial environments.



**NEW  
PRODUCT  
OFFERING!**

DISCOUNT  
SCHEDULE **C**

#### BASES

CODE	DESCRIPTION	PRICE
WTL-50BP1	50mm (1-31/32") Diameter Short Plastic Base	\$30.00
WTL-50BP2	50mm (1-31/32") Diameter Tall Plastic Base	\$30.00

SPECIFICATIONS:

IEC WORLD TOWER LIGHTS									
ELECTRICAL RATINGS									
Module Type	Rated Volts	Color	Lumens (mcd)	Sound Output (dB)	Design Life (Hrs.)	Current Draw (mA)	Lamp Type	Shock & Vibration	Electrical Leakage Protection
Light Module (Continuous Type)	24V AC/DC	Amber	100 ~ 400	NA	100,000	40 ~ 60	LED	Excellent	<5mA
		Blue	600 ~ 850						
		Green	400 ~ 700						
		Red	250 ~ 500						
		White	500 ~ 800						
Light Module (Flashing Type)	24V AC/DC	Amber	200 ~ 450	NA	100,000	40 ~ 60	LED	Excellent	<5mA
		Blue	600 ~ 900						
		Green	250 ~ 550						
		Red	150 ~ 400						
		White	500 ~ 750						
Light Module (Rotary Type)	24V AC/DC	Amber	150 ~ 300	NA	100,000	10 ~ 30	LED	Excellent	<5mA
		Blue	350 ~ 500						
		Green	150 ~ 350						
		Red	90 ~ 250						
		White	350 ~ 500						
Light Module (Continuous Type)	120V AC	Amber	200 ~ 400	NA	100,000	14 ~ 20	LED	Excellent	<5mA
		Blue	600 ~ 850						
		Green	300 ~ 600						
		Red	150 ~ 400						
		White	600 ~ 850						
Light Module (Flashing Type)	120V AC	Amber	200 ~ 500	NA	100,000	14 ~ 20	LED	Excellent	<5mA
		Blue	600 ~ 850						
		Green	300 ~ 550						
		Red	75 ~ 300						
		White	550 ~ 850						
Light Module (Rotary Type)	120V AC	Amber	100 ~ 250	NA	100,000	14 ~ 20	LED	Excellent	<5mA
		Blue	250 ~ 375						
		Green	200 ~ 350						
		Red	50 ~ 200						
		White	250 ~ 375						
Light Module (Continuous Type)	240V AC	Amber	200 ~ 400	NA	100,000	14 ~ 20	LED	Excellent	<5mA
		Blue	600 ~ 850						
		Green	300 ~ 600						
		Red	150 ~ 400						
		White	600 ~ 850						
Light Module (Flashing Type)	240V AC	Amber	200 ~ 500	NA	100,000	14 ~ 20	LED	Excellent	<5mA
		Blue	600 ~ 850						
		Green	300 ~ 550						
		Red	75 ~ 300						
		White	550 ~ 850						
Light Module (Rotary Type)	240V AC	Amber	125 ~ 250	NA	100,000	14 ~ 20	LED	Excellent	<5mA
		Blue	250 ~ 375						
		Green	215 ~ 345						
		Red	60 ~ 190						
		White	250 ~ 375						
Sound Module	24V AC/DC	Black	NA	80	100,000	14 ~ 20	NA	Excellent	<5mA
	120V 60Hz / 110V 50Hz								
	240V 60Hz / 230V 50Hz								
DIELECTRIC STRENGTH (MECHANICAL CONTACTS) 1500V for 1 Minute									

ENVIRONMENTAL RATINGS

Type 1, 2, 3, 3R, 4/4X, 12 and 13  
 IP65 (As per IEC 60529)  
 Operating Temperature  
 -30 to +60° C  
 (-22 to +140° F)  
 Storage Temperature  
 -30 to +70° C  
 (-22 to +158° F)

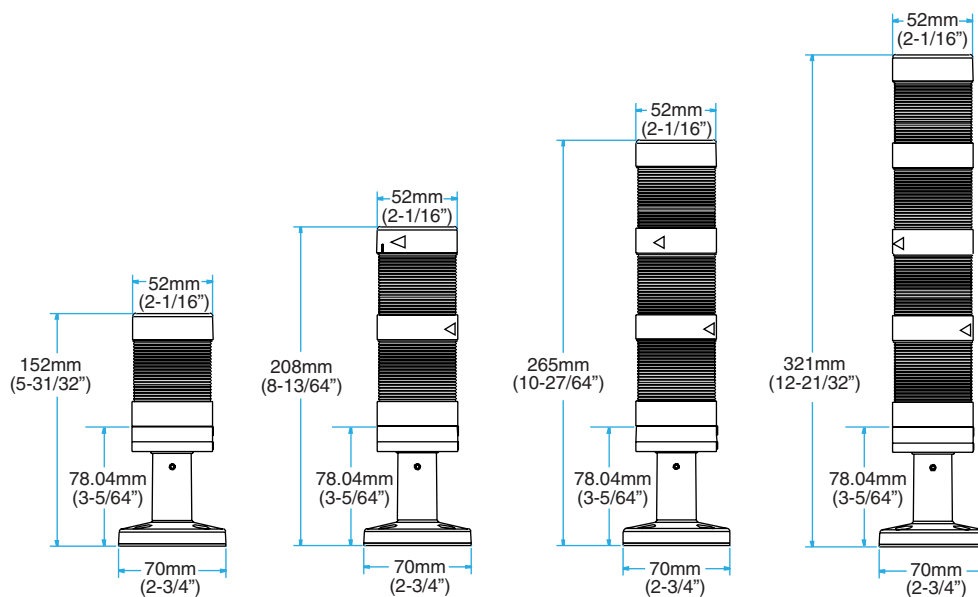
TERMINAL CONSTRUCTION

Wire Size: 0.5 ~ 1.2 mm<sup>2</sup> (AWG 20 ~ 16)  
 (Copper only - stranded)  
 Only one wire permitted per termination  
 Recommended Torque:  
 0.5 ~ 0.9 Nm  
 (5 ~ 8 lb-in)

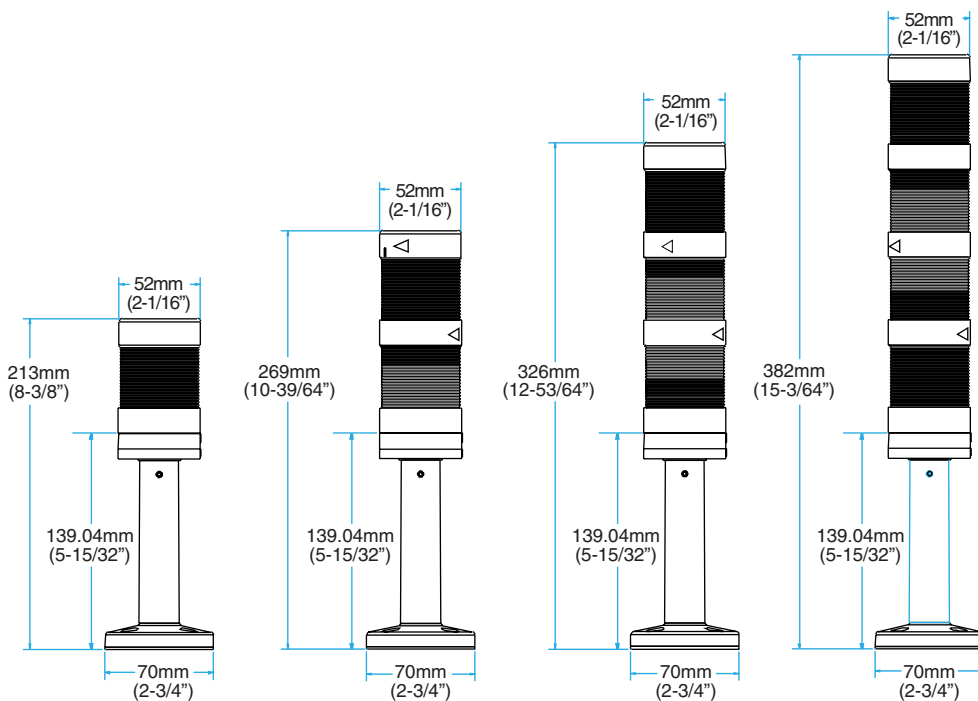
MATERIALS

RoHS Compliance  
 For RoHS Compliance documentation  
 by product, refer to [www.c3controls.com](http://www.c3controls.com)

**50MM DIAMETER TOWER LIGHT ASSEMBLY WITH SHORT PLASTIC BASE**



**50MM DIAMETER TOWER LIGHT ASSEMBLY WITH TALL PLASTIC BASE**



**MOUNTING PATTERN**

