

WORLD TOWER LIGHTS



When you need reliable, high quality tower lights for all your signaling needs, look to c3controls. Our Series WTL World Tower Lights feature a 50mm (1-31/32") diameter space saving design that is stackable to allow up to five (5) modules in a single assembly. Easy to assemble and disassemble with low power consumption integrated LEDs—no complicated center posts. c3controls Series WTL World Tower Lights will help reduce your total installed costs and enhance the features and performance of your equipment.

Section 16

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PROVEN



Conformity to Standards:

UL 508
CSA C22.2 No. 14 - 13
IEC/EN 60947-1, 60947-5-1

Certifications:

UL File #: E68568

CE Marked (per EU Low Voltage Directive 2014/35/EC and
RoHS Directive 2011/65/EU)

Visit c3controls.com to download product certifications.

WORLD TOWER LIGHTS

All our products are fully certified, rated, and backed by our 36-month warranty to meet the needs of the machine builder, and our World Tower Lights are no exception. Check out the incredible features in the chart below!

PROVIDING ACCURATE VISUAL AND AUDIBLE STATUS INDICATION.

✓ Proven	Our Tower Lights are UL Listed and CE marked meeting global standards requirements and even more stringent internal test requirements like shock and vibration.	
✓ Wide Range of Operation	Available in 24V AC/DC, 120V AC, and 240V AC.	
✓ Environmentally Secure	Rated Type 1, 2, 3, 3R, 4/4X, 12, 13 and IP65 for watertight and corrosion resistance.	
✓ Simple Customization	Lenses are available in five colors as well as the option of clear lenses and integrated color LEDs for a clean, modern look. Three styles of module illumination are available: continuous, flashing and rotary.	
✓ Consistent Visibility	c3controls selects the highest quality raw materials to ensure our products outlast the competition, including Lexan™ plastic for our lenses—improving visibility and resistance to high impact for reliable performance, even in high ambient temperatures.	
✓ Energy Savings	Our low power consumption sound modules are available in continuous or intermittent with 80dB or 100dB output, and our LED lamps last 100,000 hours—that's 11.4 years!	
✓ Heavy-Duty	Heavy-duty polycarbonate construction for excellent durability, impact resistance, superior corrosion resistance, moisture rejection and electrical insulation.	
✓ Modular Design	Stackable design to allow up to five (5) modules in a single assembly.	
✓ Durable Bases	Polycarbonate mounting bases are available in three versions: Our 50mm direct-mount base eliminates the need for drilling and reduces installation. The 50mm short and tall bases secure to the panel utilizing a 4-hole mounting pattern. Vertical mounting with tall and short bases is also available.	
✓ Convenient	Tower light assemblies provide convenience of a single catalog number.	
✓ 36-Month Warranty*	Every product is backed by our 36-Month Warranty—giving you confidence in the quality, reliability, and performance of components designed for the most demanding applications.	
✓ Guaranteed Same-Day Shipping*	Product availability reduces inventory, and improves cash-flow—saving you money. With c3controls any order for standard catalog items received by 6:00pm ET is guaranteed to ship same-day.	
✓ Advantage Pricing	Our approach to product development, manufacturing, and focus on servicing the OEM and Electrical Equipment Builder reduces cost. The result—the best value in the industry.	

*See c3controls Terms & Conditions

“c3controls pre-assembled tower lights save installation time for our engineers and technicians, lowering our costs. Switching our tower lights over to c3controls was a great decision—we have reduced time spent on the floor and significantly improved our profitability.”

Paolo Bruschi, Engineering Manager • **Cosmos Electronic Machine Corp.**

LED Light Modules



Sound Modules



Vertical Mount Base



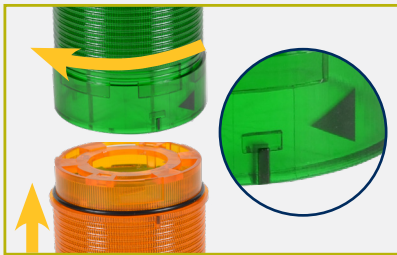
Short Base



Tall Base



Direct-Mount Base

**UNIQUE PRODUCT LINE FEATURES****EASY ASSEMBLY AND MAINTENANCE**

No tools required—simply line up the module marking and arrow and turn; 25° clockwise to tighten and 25° counter clockwise to loosen.

QUICK AND EASY WIRING

Wiring is made simple with our integrated heavy-duty polycarbonate bases. No complicated center post required for construction—just wire to the terminals.

PRE-ASSEMBLED LIGHTS

Tower lights are shipped pre-assembled, providing convenience of a single catalog number, reducing time spent on the floor and improving profitability.

MOUNTING OPTIONS

Polycarbonate mounting bases are available in three versions: Our 50mm direct-mount base eliminates the need for drilling and reduces installation. The 50mm short and tall bases secure to the panel utilizing a 4-hole mounting pattern. Vertical mounting with tall and short bases is also available.

FIELD SELECTABLE DECIBEL LEVEL

Our low power consumption sound modules offer increased tone and are available in continuous or intermittent with field selectable 80dB or 100dB sound output at 1 meter.

MODERN DESIGN

Our clear lenses are available with five LED color options. The bold illumination of the colored LEDs eliminates the need for colored lenses.

FIND IT FAST

World Tower Lights



- Certifications
- Specifications
- Dimension Drawings
- Installation Instructions
- Easy to Buy

www.c3controls.com

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.

World Tower Lights

WTL - 50 - - - - -

I II III IV V* VI* VII* VIII* IX*

Example: To build one of our most popular Tower Lights, the part number would be **WTL + 50 + III + IV + V + VI + VII + VIII + IX** 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	LIST
WTL	World Tower Light	\$ 8.00

II. MODULE DIAMETER

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

III. BASE MATERIAL & STYLE

CODE	DESCRIPTION	LIST
P1	Polycarbonate Short Base	\$ 48.50
P2	Polycarbonate Tall Base	\$ 48.50
P3	Direct-Mount Base	\$ 48.50

IV. VOLTAGE CODE

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

DISCOUNT
SCHEDULE

E

V. POSITION 1

CODE	DESCRIPTION	LIST
DA	Amber LED Light Module & Lens - Cont.	\$ 48.50
FA	Amber LED Light Module & Lens - Flashing	\$ 61.00
RA	Amber LED Light Module & Lens - Rotary	\$ 61.00
DB	Blue LED Light Module & Lens - Cont.	\$ 48.50
FB	Blue LED Light Module & Lens - Flashing	\$ 61.00
RB	Blue LED Light Module & Lens - Rotary	\$ 61.00
DG	Green LED Light Module & Lens - Cont.	\$ 48.50
FG	Green LED Light Module & Lens - Flashing	\$ 61.00
RG	Green LED Light Module & Lens - Rotary	\$ 61.00
DR	Red LED Light Module & Lens - Cont.	\$ 48.50
FR	Red LED Light Module & Lens - Flashing	\$ 61.00
RR	Red LED Light Module & Lens - Rotary	\$ 61.00
DW	White LED Light Module with Clear Lens - Cont.	\$ 48.50
FW	White LED Light Module with Clear Lens - Flashing	\$ 61.00
RW	White LED Light Module with Clear Lens - Rotary	\$ 61.00
DS3	Sound Module - Continuous (80dB or 100dB Field Selectable*)	\$ 94.50
FS3	Sound Module - Intermittent (80dB or 100dB Field Selectable*)	\$ 94.50
DCA	Amber LED Light Module with Clear Lens - Cont.	\$ 48.50
FCA	Amber LED Light Module with Clear Lens - Flashing	\$ 61.00
RCA	Amber LED Light Module with Clear Lens - Rotary	\$ 61.00
DCB	Blue LED Light Module with Clear Lens - Cont.	\$ 48.50
FCB	Blue LED Light Module with Clear Lens - Flashing	\$ 61.00
RCB	Blue LED Light Module with Clear Lens - Rotary	\$ 61.00
DCG	Green LED Light Module with Clear Lens - Cont.	\$ 48.50
FCG	Green LED Light Module with Clear Lens - Flashing	\$ 61.00
RCG	Green LED Light Module with Clear Lens - Rotary	\$ 61.00
DCR	Red LED Light Module with Clear Lens - Cont.	\$ 48.50
FCR	Red LED Light Module with Clear Lens - Flashing	\$ 61.00
RCR	Red LED Light Module with Clear Lens - Rotary	\$ 61.00

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

VI. POSITION 2

CODE	DESCRIPTION	LIST
(Blank)	None	—
DA	Amber LED Light Module & Lens - Cont.	\$ 48.50
FA	Amber LED Light Module & Lens - Flashing	\$ 61.00
RA	Amber LED Light Module & Lens - Rotary	\$ 61.00
DB	Blue LED Light Module & Lens - Cont.	\$ 48.50
FB	Blue LED Light Module & Lens - Flashing	\$ 61.00
RB	Blue LED Light Module & Lens - Rotary	\$ 61.00
DG	Green LED Light Module & Lens - Cont.	\$ 48.50
FG	Green LED Light Module & Lens - Flashing	\$ 61.00
RG	Green LED Light Module & Lens - Rotary	\$ 61.00
DR	Red LED Light Module & Lens - Cont.	\$ 48.50
FR	Red LED Light Module & Lens - Flashing	\$ 61.00
RR	Red LED Light Module & Lens - Rotary	\$ 61.00
DW	White LED Light Module with Clear Lens - Cont.	\$ 48.50
FW	White LED Light Module with Clear Lens - Flashing	\$ 61.00
RW	White LED Light Module with Clear Lens - Rotary	\$ 61.00
DS3	Sound Module - Continuous (80dB or 100dB Field Selectable*)	\$ 94.50
FS3	Sound Module - Intermittent (80dB or 100dB Field Selectable*)	\$ 94.50
DCA	Amber LED Light Module with Clear Lens - Cont.	\$ 48.50
FCA	Amber LED Light Module with Clear Lens - Flashing	\$ 61.00
RCA	Amber LED Light Module with Clear Lens - Rotary	\$ 61.00
DCB	Blue LED Light Module with Clear Lens - Cont.	\$ 48.50
FCB	Blue LED Light Module with Clear Lens - Flashing	\$ 61.00
RCB	Blue LED Light Module with Clear Lens - Rotary	\$ 61.00
DCG	Green LED Light Module with Clear Lens - Cont.	\$ 48.50
FCG	Green LED Light Module with Clear Lens - Flashing	\$ 61.00
RCG	Green LED Light Module with Clear Lens - Rotary	\$ 61.00
DCR	Red LED Light Module with Clear Lens - Cont.	\$ 48.50
FCR	Red LED Light Module with Clear Lens - Flashing	\$ 61.00
RCR	Red LED Light Module with Clear Lens - Rotary	\$ 61.00

*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)

IX. POSITION 5

(USE CHART VI FROM ABOVE)

MIX AND MATCH ANY COLOR LIGHT MODULE AND SOUND MODULE

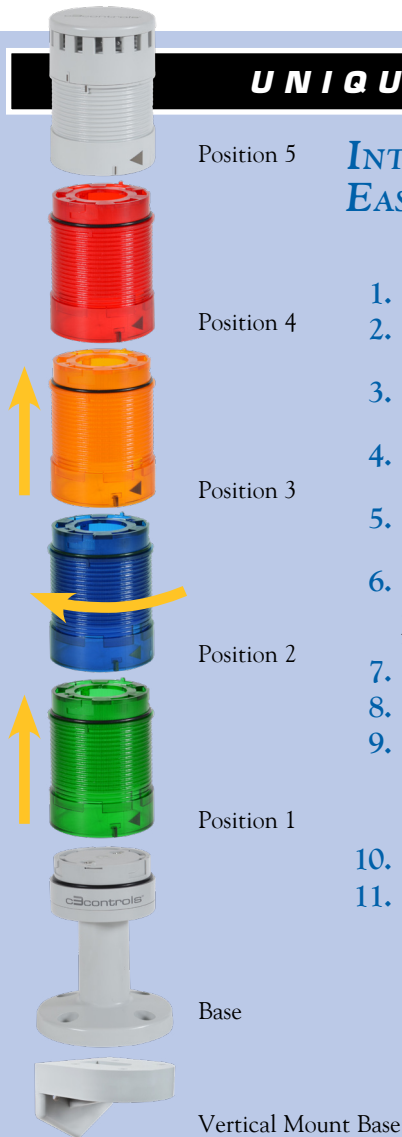


WORLD TOWER LIGHTS

c3controls 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 or 100dB 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.

UNIQUE PRODUCT FEATURES

INTEGRATED TOWER LIGHTS FOR EASY ASSEMBLY AND MAINTENANCE



1. Stackable design to allow up to five modules in a single assembly.
2. Heavy duty polycarbonate construction for excellent durability, impact resistance, 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 ambient temperatures.
4. Easy maintenance and assembly—simply line up the module marking and arrow and turn; 25° clockwise to tighten and 25° counter clockwise to loosen.
5. Continuous, flashing and rotary integrated LED light modules available—low power consumption for energy savings.
6. The tower light features a flashing mode with a cycle of 0.7 seconds ON and 0.7 seconds OFF, providing a consistent and clear visual signal at approximately 43 flashes per minute.
7. Available continuous or intermittent sound modules with 80dB or 100dB output.
8. Each module features a watertight seal that meets Type 4/4X standards.
9. Wiring is made simple with our integrated heavy-duty polycarbonate bases, available in 3 heights: direct-mount, short base and tall base. The short and tall bases may be used with the vertical mount base for more mounting options. No complicated center post required for construction—just wire to the terminals.
10. Mounts to panel utilizing a four hole mounting pattern [38mm (1-1/2")].
11. Rated Type 1, 2, 3, 3R, 4/4X, 12 and 13, and IP65 for ingress protection.



SOME OF OUR POPULAR CONFIGURATIONS:

WORLD TOWER LIGHTS		
CATALOG NUMBER	DESCRIPTION	LIST
WTL-50P1-DDGDADR	World Tower Light, 50mm Diameter, Short Base, 120V AC, Green Cont./Amber Cont./Red Cont.	\$202.00
WTL-50P1-MCDGDADR	World Tower Light, 50mm Diameter, Short Base, 24V AC/DC, Green Cont./Amber Cont./Red Cont.	\$202.00
WTL-50P2-DDGDR	World Tower Light, 50mm Diameter, Tall Base, 120V AC, Green Cont./Red Cont.	\$153.50
WTL-50P1-DDGFRDS3	World Tower Light, 50mm Diameter, Short Base, 120V AC, Green Cont./Red Flashing/Sound Module Cont. Field Selectable 80dB or 100dB	\$260.50
WTL-50P3-DCDGCFRDS3	World Tower Light, 50mm Diameter, Direct-Mount Base, 120V AC, Clear Lens Green Cont./Clear Lens Red Flashing, Sound Module Cont. Selectable 80dB or 100dB	\$260.50

LED LIGHT MODULES

Our integrated LED light modules space saving design allows you to stack up to five (5) modules in a single assembly. Low energy consumption LED lamps last 100,000 hours – that's 11.4 years! High quality Lexan™ plastic lenses with matching integrated LEDs available in five colors to provide better visibility and resist high impact for reliable performance.



Light Modules

WTL – 50 LM   
/ II III IV V VI

I. OPERATOR TYPE		
CODE	DESCRIPTION	
WTL	World Tower Light	
II. MODULE DIAMETER		
CODE	DESCRIPTION	
50	50mm (1-31/32")	
III. MODULE TYPE		
CODE	DESCRIPTION	LIST
LM	Light Module	\$48.50
IV. VOLTAGE		
CODE	DESCRIPTION	
MC	24V AC/DC	
D	120V 60Hz / 110V 50Hz	
F	240V 60Hz / 220V 50Hz	
V. LIGHT MODULE FUNCTION		
CODE	DESCRIPTION	LIST
D	Continuous	—
F	Flashing	\$12.50
R	Rotary	\$12.50
VI. LED LIGHT MODULE COLOR		
CODE	DESCRIPTION	
LA	Amber Lens / Amber LED	
LB	Blue Lens / Blue LED	
LG	Green Lens / Green LED	
LR	Red Lens / Red LED	
LW	Clear Lens / White LED	
CLA	Clear Lens / Amber LED	
CLB	Clear Lens / Blue LED	
CLG	Clear Lens / Green LED	
CLR	Clear Lens / Red LED	

SOUND MODULES

Our low power consumption sound modules are available in continuous or intermittent with 80dB or 100dB 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.



Sound Modules

WTL – 50 SM3  
/ II III IV V

I. OPERATOR TYPE		
CODE	DESCRIPTION	
WTL	World Tower Light	
II. MODULE DIAMETER		
CODE	DESCRIPTION	
50	50mm (1-31/32")	
III. MODULE TYPE		
CODE	DESCRIPTION	LIST
SM3	Sound Module, 80dB or 100dB	\$94.50
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

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POLYCARBONATE BASES

Polycarbonate mounting bases are available in three versions: 50mm direct mount eliminates the need for drilling and reduces installation and our 50mm short and 50mm tall bases secure to the panel utilizing a 4-hole mounting pattern. UL Listed and are rated Type 1, 2, 3, 3R, 4/4X, 12, 13, and IP65 for the most demanding industrial environments.

BASES

CODE	STYLE	DIMENSIONS	LIST
WTL-50BP1	Panel-Mount	Height: Short 78mm (3-5/64") Dia.: 50mm (1-31/32")	\$48.50
WTL-50BP2	Panel-Mount	Height: Tall 139mm (5-15/32") Dia.: 50mm (1-31/32")	\$48.50
WTL-50BP3	Direct-Mount	Height: 57.9mm (2-9/32") Dia.: 50mm (1-31/32")	\$48.50

DISCOUNT
SCHEDULE**E****VERTICAL MOUNTING BASE**

NOTE: For use with Short and Tall bases, WTL-50BP1 and WTL-50BP2.



CODE	DESCRIPTION	LIST
WTL-50BPV	Vertical Mounting Base Accessory	\$26.00

LIGHT MODULE CAP

NOTE: For use with Short and Tall bases, WTL-50BP1 and WTL-50BP2.



CODE	DESCRIPTION	LIST
WTL-50CAP	Light Module Cap Accessory	\$ 2.80

SPECIFICATIONS:

WORLD TOWER LIGHTS									
ELECTRICAL RATINGS									
MODULE TYPE	RATED VOLTS	COLOR	LUMENS (mcd)	SOUND OUTPUT (dB)	FLASHING RATE (FPM)	DESIGN LIFE (Hrs.)	CURRENT DRAW (mA)	LAMP TYPE	SHOCK & VIBRATION
Light Module (Continuous Type)	24V AC/DC†	Amber	150 ~ 650	NA	NA	100,000	40 ~ 60	LED	Excellent
		Blue	600 ~ 1500						
		Green	660 ~ 1150						
		Red	400 ~ 800						
		White	850 ~ 1400						
Light Module (Flashing Type)	24V AC/DC†	Amber	150 ~ 650	NA	≈ 43 flashes/min	100,000	60 ~ 80	LED	Excellent
		Blue	600 ~ 1500						
		Green	660 ~ 1150						
		Red	400 ~ 800						
		White	850 ~ 1400						
Light Module (Rotary Type)	24V AC/DC†	Amber	150 ~ 650	NA	NA	100,000	40 ~ 50	LED	Excellent
		Blue	600 ~ 1500						
		Green	660 ~ 1150						
		Red	400 ~ 800						
		White	850 ~ 1400						
Light Module (Continuous Type)	120V AC†	Amber	150 ~ 650	NA	NA	100,000	14 ~ 20	LED	Excellent
		Blue	600 ~ 1500						
		Green	660 ~ 1150						
		Red	400 ~ 800						
		White	850 ~ 1400						
Light Module (Flashing Type)	120V AC†	Amber	150 ~ 650	NA	≈ 43 flashes/min	100,000	10 ~ 20	LED	Excellent
		Blue	600 ~ 1500						
		Green	660 ~ 1150						
		Red	400 ~ 800						
		White	850 ~ 1400						
Light Module (Rotary Type)	120V AC†	Amber	150 ~ 650	NA	NA	100,000	5 ~ 20	LED	Excellent
		Blue	600 ~ 1500						
		Green	660 ~ 1150						
		Red	400 ~ 800						
		White	850 ~ 1400						
Light Module (Continuous Type)	240V AC†	Amber	150 ~ 650	NA	NA	100,000	14 ~ 20	LED	Excellent
		Blue	600 ~ 1500						
		Green	660 ~ 1150						
		Red	400 ~ 800						
		White	850 ~ 1400						
Light Module (Flashing Type)	240V AC†	Amber	150 ~ 650	NA	≈ 43 flashes/min	100,000	5 ~ 20	LED	Excellent
		Blue	600 ~ 1500						
		Green	660 ~ 1150						
		Red	400 ~ 800						
		White	850 ~ 1400						
Light Module (Rotary Type)	240V AC†	Amber	150 ~ 650	NA	NA	100,000	5 ~ 20	LED	Excellent
		Blue	600 ~ 1500						
		Green	660 ~ 1150						
		Red	400 ~ 800						
		White	850 ~ 1400						
Sound Module	24V AC/DC	Grey	NA	80 ~ 100	NA	100,000	5 ~ 20	NA	Excellent
	120V 60Hz / 110V 50Hz								
	240V 60Hz / 220V 50Hz								

† LED voltage tolerance is +/- 10%

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: 0.3255 ~ 1.2 mm² (AWG 22 ~ 16)

(Copper only – stranded)

Only one wire permitted per termination

Recommended Torque:

0.5 ~ 0.9 Nm

(5 ~ 8 lb.in)

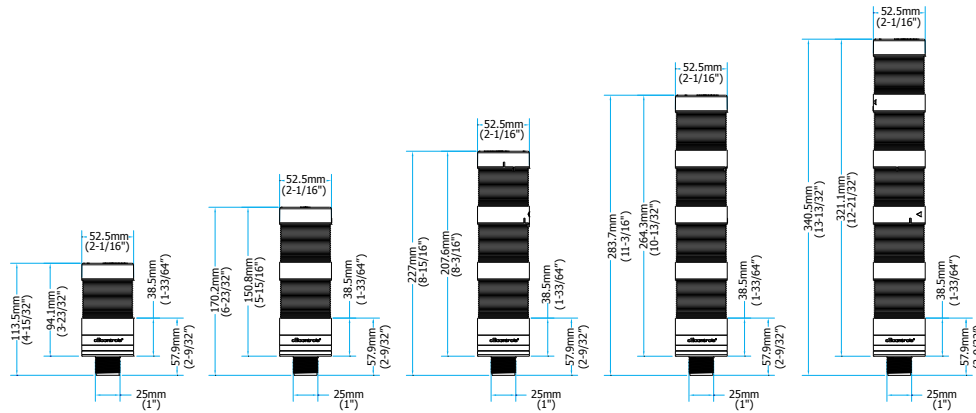
MATERIALS

RoHS Compliance

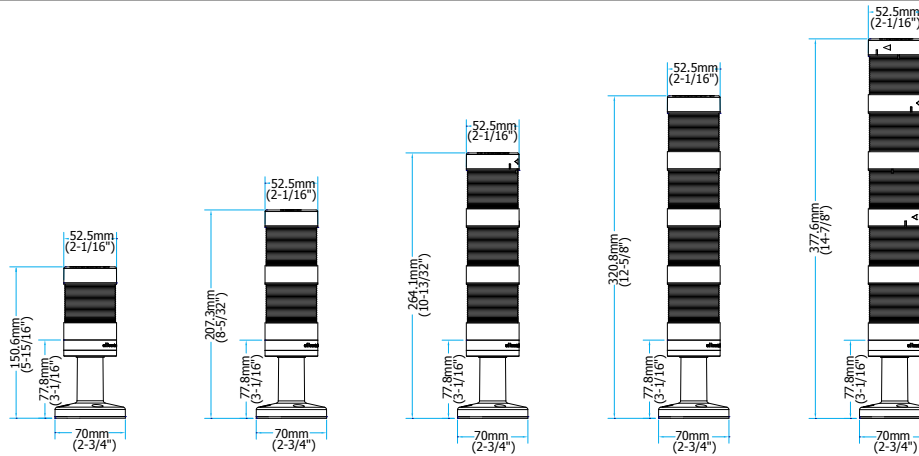
For RoHS Compliance documentation

by product, refer to www.c3controls.com

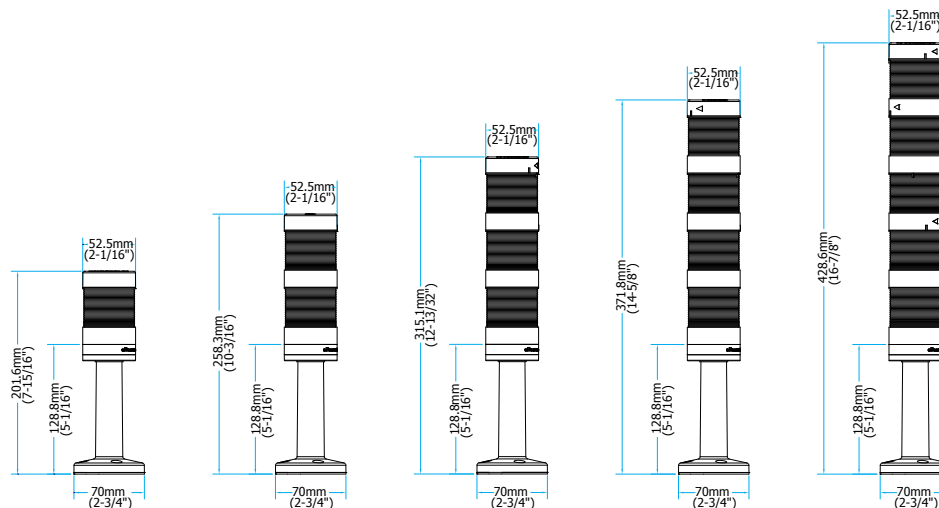
50MM DIAMETER TOWER LIGHT ASSEMBLY WITH DIRECT MOUNT BASE



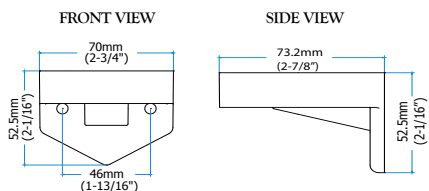
50MM DIAMETER TOWER LIGHT ASSEMBLY WITH SHORT PLASTIC BASE



50MM DIAMETER TOWER LIGHT ASSEMBLY WITH TALL PLASTIC BASE



VERTICAL MOUNTING BASE



MOUNTING PATTERNS

