30mm Control Tower™ Stack Lights

Specifications

Mechanical Ratings				
Shock and Vibration		Based on the weight and style of mounting; tower lights are subject to damage from shock and vibration. Listed below are reference guidelines for maximum acceptable conditions.		
		1 Module Stack	3 Module Stack	5 Module Stack
Standard Bases	Surface Mount Base or 10/25 cm Aluminum Pole Base	150 G Shock 2.5 G Vibration	45 G Shock 2.5 G Vibration	35 G Shock 2.0 G Vibration
Environmental Ratings				
Ingress Ratings	Light Modules	IP65/UL Type 4/4X/13		
	Sound Modules	IP65/UL Type 4/4X/13		
	Surface, Pole, Vertical, Tube Mount Bases	IP65/UL Type 4/4X/13		
Temperature Ratings — All Products	Operating Temperature	-25…+50 °C (-13…+122 °F)		
	Storage Temperature	-25…+85 °C (-13…+185 °F)		
Materials				
Bases, Cap, Lens Cover, Sound Module Housings		Polycarbonate (94V-0)		
Lenses		Lexan 143R (HB Rating only)		
Rubber Seals and Gaskets		Nitrile Rubber		
Pole (for aluminum pole assembly)		Aluminum		
Pole Base Footing (for aluminum pole base)		Glass-Filled Nylon 66, Polycarbonate (94V-0)		
Insulation Sleeve (for pole insulation)		PVC		
Mounting Screw Washers		Polymide		
Certifications				
UL/cUL File Number		All products — E14840		
CE		Standard Bases, Light Modules and Sound Modules— EN 60947-5-1		

Performance Ratings		
Estimated Light Output‡	Steady, Flashing, Red	1000 mCd
	Steady, Flashing, Amber	800 mCd
	Steady, Flashing, Green	1500 mCd
	Steady, Flashing, Yellow	700 mCd
	Steady, Flashing, Blue	250 mCd
	Steady, Flashing, White	1000 mCd

Operating Voltage			
Description	24V AC/DC	120V AC	240V AC
Light Modules	24V AC/DC (± 10%)	110V AC 50 Hz (± 10%) 120V AC 60 Hz (± 10%)	230V AC 50 Hz (± 10%) 240V AC 60 Hz (± 10%)
Sound Modules			

Lamp Life Ratings (Design Life) Average Life Under Static, No Vibration, Conditions			
Description	24V AC/DC	120V AC	240V AC
LED Modules	100000 hrs		
Sound Modules	20000 hrs		

‡ Light Output values are calculated from the LED datasheet and show typical values of luminous density. These values are not exact because the knurling in the lens affects the light distribution and because the viewing angle of the LED which directly relates to the Cd output value, is not identical for all LEDs.

Current Consumption				
Description		24V AC/DC	120V AC	240V AC
Light Modules	Steady or Flashing LED	20 mA	22 mA	21 mA
Piezo Style Sound Modules	Single and Two Circuit	40 mA	22 mA	21 mA
Flashing Frequency (Light Only Modules)				
Flashing LED Modules		Flashing frequency approximately 2 Hz		
dB Rating (Sound Modules)				
All dB(A) ratings determined at a distance of 1 meter from sound module				
Piezo Sound Module		85 dB(A) (+2 dB/-5 dB)		
Leakage Current Impact				
All light and sound modules are capable of absorbing up to 3 mA of leakage current from solid-state outputs without module activation. Some light and light modules/with sound may not turn off completely when connected to solid-state outputs which emit leakage current. The table below identifies modules that were affected by an output module emitting a maximum of 3 mA. A dry contact can be used to eliminate the effect of leakage current.				
24V AC/DC, 120V AC, 240V AC		All light/sound modules: 3 mA		