

Bulletin 855E 50 Mm Control Tower™ Stack Lights

Standard Stack Light Bases



Surface-Mount Base with Cap

Pole-Mount Bases

Quick-Release Base

Vertical-Mount Base with Cap

855E – B VM C

a b c

a		b		c	
Housing Color		Base Type		Cap Option§	
Code	Description	Code	Description	Code	Description
B	Black	CB	Surface mount with 1/2 in. NPT threading	Blank	No cap
G	Grey	RB	Surface mount with M20 metric threading	C	Cap included
		SB	Surface mount with PG16 threading		
		TM	25 mm tube mount		
		VM	Vertical mount		
		PM10	10 cm aluminum pole mount base		
		PM25	25 cm aluminum pole mount base		
		PM40	40 cm aluminum pole mount base		
		PM60	60 cm aluminum pole mount base		
		PM80	80 cm aluminum pole mount base		
		MM10	10 cm quick release base		
		MM25	25 cm quick release base		
		MM40	40 cm quick release base		

§ Quick-release bases always include a cap.

Housing Color	Base Type	With Cap Option	Without Cap Option
		Cat. No.	Cat. No.
Black	Surface Mount – 1/2 NPT Thread	855E-BCBC	855E-BCB
	Surface Mount – PG16 Thread	855E-BSBC	855E-BSB
	Surface Mount – M20 Thread	855E-BRBC	855E-BRB
	Vertical Mount	855E-BVMC	855E-BVM
	25 mm Diameter Tube Mount	855E-BTMC	855E-BTM
	10 cm Aluminum Pole Mount	855E-BPM10C	855E-BPM10
	25 cm Aluminum Pole Mount	855E-BPM25C	855E-BPM25
	40 cm Aluminum Pole Mount	855E-BPM40C	855E-BPM40
	60 cm Aluminum Pole Mount	855E-BPM60C	855E-BPM60
	80 cm Aluminum Pole Mount	855E-BPM80C	855E-BPM80
	10 cm Pole, Quick-Release Base	855E-BMM10C	—
	25 cm Pole, Quick-Release Base	855E-BMM25C	—
	40 cm Pole, Quick-Release Base	855E-BMM40C	—

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 cm Aluminum Pole Base	150 G Shock 5 G Vibration	45 G Shock 1.5 G Vibration	35 G Shock 0.75 G Vibration
	Vertical Base or 25 cm Aluminum Pole Base	95 G Shock 3.5 G Vibration	30 G Shock 1.25 G Vibration	20 G Shock 0.5 G Vibration
Recommended Wire Sizes		0.5...1.5 mm2 (22...16 AWG)		
Recommended Terminal Torque		0.87 N•m (7 lb•in)		
Environmental Ratings				
Ingress Ratings	Light Modules with Cap	UL Type 4/4X/13, IP65		
	Sound Modules	UL Type 4/4X/13, IP65		
	Surface, Vertical, Tube Mount Bases	UL Type 4/4X/13, IP65		
	Pole Mount Bases	UL Type 4/4X/13, IP65		
Temperature Ratings — All Products	Operating Temperature	-25...+50 °C (-13...+122 °F)		
	Storage Temperature	-40...+85 °C (-40...+185 °F)		
Materials				
Bases, Caps, Lens Covers, Sound Module Housings, Lenses		Polycarbonate		
Lamp Socket		Polycarbonate		
Rubber Seals and Gaskets		Nitrile Rubber		
Pole (for aluminum pole assembly)		Aluminum		
Pole Base Footing (for aluminum pole base)		Polycarbonate		
Insulation Sleeve (for pole insulation)		Polyolefin		
Mounting Screw Washers		Polypropylene		

Performance Ratings					
Description		12V AC/DC	24V AC/DC	120V AC	240V AC
Light Output	Steady Incandescent	0.5 MSCP 6.3 Lumens	2.5 MSCP 31.4 Lumens	3.0 MSCP 37.7 Lumens	0.49 MSCP 6.2 Lumens
	Flashing Incandescent	0.5 MSCP 6.3 Lumens	2.5 MSCP 31.4 Lumens	3.0 MSCP 37.7 Lumens	0.49 MSCP 6.2 Lumens
	Strobe	1 Joule per lamp			
	Steady, Flashing Socket Mount LED Red	900...2240 mcd			
	Steady, Flashing Socket Mount LED Green	900...1800 mcd			
	Steady, Flashing Socket Mount LED Amber	1400...3550 mcd			
	Steady, Flashing Socket Mount LED Blue	224...560 mcd			
	Steady, Flashing Socket Mount LED White and Yellow	900...1800 mcd			
Operating Voltage					
Description		12V AC/DC	24V AC/DC	120V AC	240V AC
Light Modules and Sound Modules		12V AC/DC (± 10%)	24V AC/DC (± 10%)	110V AC 50Hz (± 10%) 120V AC 60Hz (± 10%)	230V AC 50 Hz (± 10%) 240V AC 60 Hz (± 10%)
Lamp Life Ratings (Design Life) Average Life Under Static, No Vibration, Conditions					
Description		12V AC/DC	24V AC/DC	120V AC	240V AC
Incandescent Modules† §		8 000 hrs	7 000 hrs	3 000 hrs	1 600 hrs
LED Modules		100 000 hrs			
Strobe Modules		15 000 hrs			
Sound Modules		20 000 hrs			

‡ First failures at about 35% of average life. Severe vibration may reduce life to 44% of average life.

§ Flashing applications may reduce life to 50% of average life.

Current Consumption					
Description		12V AC/DC	24V AC/DC	120V AC	240V AC
Light Only Modules	Steady Incandescent	208 mA	271 mA	58 mA	23 mA
	Flashing Incandescent	208 mA	271 mA	58 mA	23 mA
	Steady or Flashing LED	42 mA	29 mA	21 mA	20 mA
	Strobe	95 mA	60 mA	55 mA	30 mA
Sound Modules	Single-Tone Sound Module	12 mA	25 mA	33 mA	33 mA
	Two-Tone Sound Module				
Flashing Frequency (Light Only Modules)					
Flashing Incandescent Modules		12V module approximately 1.5 Hz 24V, 120V, and 240V modules approximately 2 Hz Time ON/Time OFF = 1:1			
Flashing LED Modules		Flashing frequency approximately 1.5 Hz Time On/Time OFF = 1:1			
Strobe Modules		Flashing frequency approxmately 2 Hz (flash duration 1/50,000 second)			
Flashing and Tone frequency (Light Modules/with Sound Set at Continuous Tone)					
Tone Frequency		Tone frequency is preset at 2800 Hz			
Flashing and Tone Pulsing Frequencies (Light Modules/with Sound Set at Pulsing Tone)					
Tone Frequency		Tone Frequency is preset at 2800 Hz			
dB Rating (Sound Modules)					
All dB(A) ratings determined at a distance of 1 meter from sound module					
Single Tone Sound Module (SA3)		Maximum volume ranges from 88 or 103 dB(A) (volume adjustable by dipswitch)			
Two Tone Sound Module (TA3)					
Leakage Current Impact					
All light modules and sound modules are capable of absorbing up to 3 mA of leakage from solid-state outputs without module activation					