Product Selection



Bulletin 855T — 70mm Control Tower™ Stack Lights

- Light and Sound Signaling Products
- Surface, Vertical, or Pole Mounting
- Light Modules UL Type 4/4X/13, IP65
- Sound Modules Piezo and Transducer options
- DeviceNet bases available

Standards Compliance and Certifications

EN/IEC 60947-5-1 CSA C22.2 No. 14

UL 508

cULus Listed (File No. E14840, Guide No.NKCR) CE Marked

Table of Contents

Light Modules

855T – B

10

FN

4



Red Flashing Incandescent (Black Housing)

a

	Housing Color				
	Code Description				
B Black		Black			
	G	Gray			

b

	Voltage		
Code	Description		
00	0250V AC/DC (Use only with Module Code XN)		
12	12V AC/DC Full Voltage		
24	24V AC/DC Full Voltage		
10	120V AC Full Voltage		
20	240V AC Full Voltage		

C

Module Type				
Code	Description			
XN	Steady No-Lamp®			
DN	Steady Incandescent			
FN	Flashing Incandescent			
TL	Steady LED			
GL Flashing LED				
BR	Strobe			

d

	Lens Color		
Code	Code Description		
3	Green		
4	Red		
5	Amber		
6	Blue		
7	Clear		
8	Yellow		

* Use only with Voltage Code 00. Accepts LED module or incandescent lamp.

			Black Housing Color	Gray Housing Color
Voltage	Color	Illumination Type	Cat. No.*	Cat. No.∗
O OFOVANO Larger Madula	Green	Ctoody Incondessort / LED	855T-B00XN3	855T-G00XN3
0250V No-Lamp Module	Red	Steady Incandescent / LED	855T-B00XN4	855T-G00XN4
		Steady Incandescent	855T-B24DN3	855T-G24DN3
	Green	Flashing Incandescent	855T-B24FN3	855T-G24FN3
		Steady LED	855T-B24TL3	855T-G24TL3
		Steady Incandescent	855T-B24DN4	855T-G24DN4
24V AC/DC Full Voltage	Red	Flashing Incandescent	855T-B24FN4	855T-G24FN4
		Strobe	855T-B24BR4	855T-G24BR4
		Steady Incandescent	855T-B24DN5	855T-G24DN5
	Amber	Flashing Incandescent	855T-B24FN5	855T-G24FN5
		Steady LED	855T-B24TL5	855T-G24TL5
		Steady Incandescent	855T-B10DN3	855T-G10DN3
	Green	Flashing Incandescent	855T-B10FN3	855T-G10FN3
		Steady LED	855T-B10TL3	855T-G10TL3
	Red	Steady Incandescent	855T-B10DN4	855T-G10DN4
120V AC Full Voltage		Flashing Incandescent	855T-B10FN4	855T-G10FN4
		Strobe	855T-B10BR4	855T-G10BR4
	Amber	Steady Incandescent	855T-B10DN5	855T-G10DN5
		Flashing Incandescent	855T-B10FN5	855T-G10FN5
		Steady LED	855T-B10TL5	855T-G10TL5

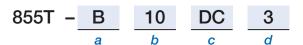
^{*} Refer to configurator options for additional selections.



Product Selection, Continued

Single-Circuit Light Modules with Piezo Sounder*

All modules contain a selected light option with a sound device that operates simultaneously. The Piezo style sound module can be switched to pulsing or continuous sound with a DIP switch. Additionally, the volume can be adjusted to either low: 92 dB(A) or high: 107 dB(A), via a DIP switch. UL Type 4/4X/13, IP65.





Red Strobe/Sound Combination Module (Black Housing)

a

	Housing Color
Code	Description
В	Black
G	Gray

b

Voltage			
Code	Description		
12	12V AC/DC Full Voltage		
24	24V AC/DC Full Voltage		
10	120V AC Full Voltage		
20	240V AC Full Voltage		

C

	Module Type		
Code	Description		
DC	Steady Incandescent/with Sound		
FC	Flashing Incandescent/with Sound		
TC	Steady LED/with Sound		
GC	Flashing LED/with Sound		
BC	Strobe/with Sound		

d

Lens Color			
Code	Code Description		
3	Green		
4	Red		
5	Amber		
6	Blue		
7	Clear		
8	Yellow		

			Black Housing Color	Gray Housing Color
Voltage	Illumination Type	Lamp Color	Cat. No.*	Cat. No.*
	Steady Incandescent		855T-B24DC3	855T-G24DC3
	Flashing Incandescent	Green	855T-B24FC3	855T-G24FC3
	Steady LED		855T-B24TC3	855T-G24TC3
	Steady Incandescent		855T-B24DC4	855T-G24DC4
24V AC/DC Full Voltage	Flashing Incandescent	Red	855T-B24FC4	855T-G24FC4
	Strobe	1	855T-B24BC4	855T-G24BC4
	Steady Incandescent		855T-B24DC5	855T-G24DC5
	Flashing Incandescent	Amber	855T-B24FC5	855T-G24FC5
	Steady LED		855T-B24TC5	855T-G24TC5
	Steady Incandescent		855T-B10DC3	855T-G10DC3
	Flashing Incandescent	Green	855T-B10FC3	855T-G10FC3
	Steady LED		855T-B10TC3	855T-G10TC3
	Steady Incandescent	Red	855T-B10DC4	855T-G10DC4
120V AC Full Voltage	Flashing Incandescent		855T-B10FC4	855T-G10FC4
	Strobe		855T-B10BC4	855T-G10BC4
	Steady Incandescent	Amber	855T-B10DC5	855T-G10DC5
	Flashing Incandescent		855T-B10FC5	855T-G10FC5
	Steady LED		855T-B10TC5	855T-G10TC5

^{*} The light/with sound module uses one circuit in a stack. It can be used with a maximum of four light modules and must be placed in the top position of a stack.



Refer to configurator options for additional selections.

2-Circuit Light Modules with Piezo Sounder*

Modules contain two circuits enabling separate operation of light or sound in the same module. The Piezo style sound device can be switched to pulsing or continuous sound with a DIP switch. Additionally, the volume can be adjusted to either low: 92 dB(A) or high: 107 dB(A), via a DIP switch. UL Type 4/4X/13, IP65.

855T - B 10 DD 4



2-Circuit Steady Incandescent/ Sound Combination Module (Black Housing)

a

	Housing Color		
Code	Description		
В	Black		
G	Gray		

b

Voltage			
Code Description			
2 12V AC/DC Full Voltage			
24V AC/DC Full Voltage			
120V AC Full Voltage			
240V AC Full Voltage			

C

	Module Type		
Code	Code Description		
DD	2-Circuit Steady Incandescent/with Sound		

d

	Lens Color		
Code	Description		
3	Green		
4	Red		
5	Amber		
6	Blue		
7	Clear		
8	Yellow		

			Black Housing Color	Gray Housing Color
Voltage	Illumination Type	Lamp Color	Cat. No.₩	Cat. No.₩
		Green	855T-B12DD3	855T-G12DD3
		Red	855T-B12DD4	855T-G12DD4
12V AC/DC Full Voltage		Amber	855T-B12DD5	855T-G12DD5
12V AC/DC Full Voltage		Blue	855T-B12DD6	855T-G12DD6
		Clear	855T-B12DD7	855T-G12DD7
		Yellow	855T-B12DD8	855T-G12DD8
	Steady Incandescent	Green	855T-B24DD3	855T-G24DD3
		Red	855T-B24DD4	855T-G24DD4
24V AC/DC Full Voltage		Amber	855T-B24DD5	855T-G24DD5
24V AC/DC Full Voltage		Blue	855T-B24DD6	855T-G24DD6
		Clear	855T-B24DD7	855T-G24DD7
		Yellow	855T-B24DD8	855T-G24DD8
		Green	855T-B10DD3	855T-G10DD3
		Red	855T-B10DD4	855T-G10DD4
120V AC Full Voltage		Amber	855T-B10DD5	855T-G10DD5
120V AC Full Voltage		Blue	855T-B10DD6	855T-G10DD6
		Clear	855T-B10DD7	855T-G10DD7
		Yellow	855T-B10DD8	855T-G10DD8

^{*} The 2-circuit light/with sound module uses two circuits in a stack. It can be used with a maximum of three light modules and must be placed in the top position of a stack.



^{*} Refer to configurator options for additional selections.

Product Selection, Continued

Transducer Style Sound Modules

- UL Type 12, IP54
- Up to 15 tones
- Adjustable volume @ 1 meter from 64...103 dB(A)
- · Adjustable frequency and speed tone





Transducer Style Single Tone/Single Circuit Sound Module (Black Housing)

	•	3	
	c	z	
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Housing Color		
Code	Description	
В	Black	
G	Gray	

<u> </u>			
Voltage			
Code	Description		
12	12V AC/DC Full Voltage		
24	24V AC/DC Full Voltage		
10	120V AC Full Voltage		
20	240V AC Full Voltage		

	Module Type			
Code	Description			
SA1	Single Tone Sound Module with 13 different tones∗			
TA1	Dual Tone sound Module with 15 sets of dual tone combinations*			

			Black Housing Color	Gray Housing Color
Voltage	Module Type	Tone	Cat. No.‡	Cat. No.‡
24V AC/DC Full Voltage	Single Tone Transducer Style	Preset as Triangle Tone	855T-B24SA1	855T-G24SA1
24V AC/DC Full Voltage	Dual Tone Transducer Style	Preset as Triangle Tone/Continuous Tone	855T-B24TA1	855T-G24TA1
100V AC Full Vallage	Single Tone Transducer Style	Preset as Triangle Tone	855T-B10SA1	855T-G10SA1
120V AC Full Voltage	Dual Tone Transducer Style	Preset as Triangle Tone/Continuous Tone	855T-B10TA1	855T-G10TA1

^{*} This module uses one circuit in a stack. It can be used with maximum of any four light modules and must be placed on top of stack.

^{*}This module uses two circuits in a stack. It can be used with a maximum of any three light modules and must be placed on top of stack.

[‡] Refer to configurator options for additional selections.

Piezo Style Sound Modules

- · Single or dual circuit versions
- High/low volume selectable via dip switch

855T - G 24 TA2



Piezo Style Dual Tone/Dual Circuit Sound Module (Black Housing)

a

Housing Color		
Code	Description	
В	Black	
G	Gray	

b

	Voltage			
Code	Description			
12	12V AC/DC Full Voltage			
24	24V AC/DC Full Voltage			
10	120V AC Full Voltage			
20	240V AC Full Voltage			

C

Module Type			
Code	Description		
SA2	Single Tone/Single Circuit Piezo style Module with continuous or pulsing tones modified by a DIP switch Type 12 Volume 97/85 dB @ 1 m		
TA2	 Dual Tone/Dual Circuit Piezo style Module with continuous or pulsing tone modified by energizing 1 or 2 circuit of sound modules Type 12 Volume 97/85 dB @ 1 m 		
SA3	Single Tone/Single Circuit Piezo style Module with continuous or pulsing tones modified by a DIP switch Type 4/4X/13 Volume 107/92 dB @ 1 m		
TA3	 Dual Tone/Dual Circuit Piezo style Module with continuous or pulsing tone modified by energizing 1 or 2 circuit of sound modules Type 4/4X/13 Volume 107/92 dB @ 1 m 		

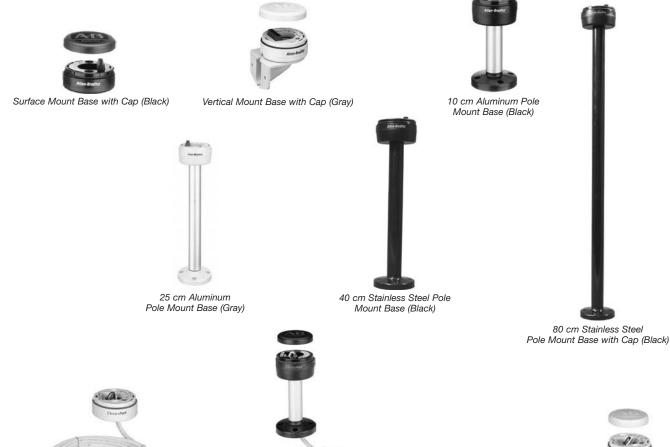
			Black Housing Color	Gray Housing Color
Voltage	Module Type	Tone Type	Cat. No.∗	Cat. No.∗
	Dual Tone Piezo Style (UL Type 12, IP54)	- Pulsing Tone/Continuous Tone	855T-B24TA2	855T-G24TA2
24V AC/DC Evil Voltage	Dual Tone Piezo Style (UL Type 4/4X/13, IP65)		855T-B24TA3	855T-G24SA3
24V AC/DC Full Voltage	Single Tone Piezo Style (Type 12, IP54)		855T-B24SA2	855T-B24SA2
	Single Tone Piezo Style (Type 4/4X/13, IP65)		855T-B24SA3	855T-G24SA3
	Dual Tone Piezo Style (Type 12, IP54)	- Pulsing Tone/Continuous Tone	855T-B10TA2	855T-G10TA2
100V AC Full Voltage	Dual Tone Piezo Style (Type 4/4X/13, IP65)		855T-B10TA3	855T-G10TA3
120V AC Full Voltage	Single Tone Piezo Style (UL Type 12, IP54)		855T-B10SA2	855T-G10TA2
	Single Tone Piezo Style (UL Type 4/4X/13, IP65)		855T-B10SA3	855T-G10SA3

 $[\]ensuremath{\star}$ Refer to configurator options for additional selections.



Product Selection, Continued

Standard and DeviceNet Stack Light Bases



Surface Mount Conduit Mount Base with Stranded Wire Cable (Gray)



10 cm Pole Mount Base with Micro Connect Cable and Cap (Black)



Vertical Mount Base with Micro Connect Cable and Cap (Gray)

855T	_	DL1
		а

SPM60 SPM80 B

C

PM10



a

	Network Connection Type		
Code	Description		
Blank	No Network Connection		
DM1	DeviceNet Micro-connect with 1 m Cable∗		
DS2	DeviceNet Stranded Wire Connect with 2 m Cable*		
DL1	DeviceNet Mini-connect with 1 m Cable∗		

b

Housing Color
Description
Black
Gray

Base Type		
Code	Description	
СВ	Surface Mount — 1/2 in NPT Conduit Mount	
SB	Surface Mount — PG16 Conduit Mount	
RB	Surface Mount — M20 x 1.5 Conduit Mount	
VM	Vertical Mount	
TM	25 mm Diameter Tube Mount	
PM10	10 cm Aluminum Pole Mount	
PM25	25 cm Aluminum Pole Mount	
PM40	40 cm Aluminum Pole Mount	
SPM10	10 cm Stainless Steel Pole Mount®	
SPM25	25 cm Stainless Steel Pole Mount®	
SPM40	40 cm Stainless Steel Pole Mount®	

Cap Option	
Code	Description
Blank	No Cap
С	Cap Included

d



60 cm Stainless Steel Pole Mount®

80 cm Stainless Steel Pole Mount®

^{*} DeviceNet bases DL1, DM1, or DS2 can only be used with 24V AC/DC and they are only available with Base Types CB, SB, VM, TM, PM10, or PM25.

^{*} Stainless Steel tube is powder-coated in black.

Standard Stack Light Bases

		With Cap Option	Without Cap Option
Housing Color	Base Type	Cat. No.*	Cat. No.*
	Surface Mount — 1/2 in NPT Conduit Mount	855T-BCBC	855T-BCB
	Surface Mount — PG16 Conduit Mount	855T-BSBC	855T-BSB
	Surface Mount — M20 x 1.5 Conduit Mount	855T-BRBC	855T-BRBC
	Vertical Mount	855T-BVMC	855T-BVM
	10 cm Aluminum Pole Mount	855T-BPM10C	855T-BPM10
Black	25 cm Aluminum Pole Mount	855T-BPM25C	855T-BPM25
	40 cm Aluminum Pole Mount	855T-BPM40C	855T-BPM40
	25 mm Diameter Tube Mount	855T-BTMC	855T-BTM
	10 cm Stainless Steel Pole Mount	855T-BSPM10C	855T-BSPM10
	25 cm Stainless Steel Pole Mount	855T-BSPM25C	855T-BSPM25
	40 cm Stainless Steel Pole Mount	855T-BSPM40C	855T-BSPM40
	60 cm Stainless Steel Pole Mount	855T-BSPM60C	855T-BSPM60
	80 cm Stainless Steel Pole Mount	855T-BSPM80C	855T-BSPM80

DeviceNet Stack Light Bases

			Black Housing Color	Gray Housing Color
Cable Type	Base Type	Cap Option®	Cat. No.∗	Cat. No.∗
	Surface Mount — 1/2 in NPT Conduit Mount		855T-DM1BCBC	855T-DM1GCBC
	Surface Mount — PG16 Conduit Mount		855T-DM1BSBC	855T-DM1GSBC
Micro Connect	Surface Mount — M20 x 1.5 Conduit Mount		855T-DM1BRBC	855T-DM1BRBC
(approximately 1 meter cable	Vertical Mount		855T-DM1BVMC	855T-DM1GVMC
length)	10 cm Pole Mount		855T-DM1BPM10C	855T-DM1GPM10C
	25 cm Pole Mount		855T-DM1BPM25C	855T-DM1GPM25C
	25 mm Diameter Tube Mount		855T-DM1BTMC	855T-DM1GTMC
	Surface Mount — 1/2 in NPT Conduit Mount		855T-DS2BCBC	855T-DS2GCBC
	Surface Mount — PG16 Conduit Mount		855T-DS2BSBC	855T-DS2GSBC
Stranded Wire Connect	Surface Mount — M20 x 1.5 Conduit Mount		855T-DS2BRBC	855T-DS2BRBC
(approximately 2 meter cable length)	Vertical Mount		855T-DS2BVMC	855T-DS2GVMC
	10 cm Pole Mount		855T-DS2BPM10C	855T-DS2GPM10C
	25 cm Pole Mount		855T-DS2BPM25C	855T-DS2GPM25C
	25 mm Diameter Tube Mount		855T-DS2BTMC	855T-DS2GTMC
	Surface Mount — 1/2 in NPT Conduit Mount		855T-DL1BCBC	855T-DL1GCBC
	Surface Mount — PG16 Conduit Mount		855T-DL1BSBC	855T-DL1GSBC
Mini Connect (approximately 1 meter cable	Surface Mount — M20 x 1.5 Conduit Mount		855T-DL1BRBC	855T-DL1BRBC
	Vertical Mount	1	855T-DL1BVMC	855T-DL1GVMC
length)	10 cm Pole Mount	unt		855T-DL1GPM10C
	25 cm Pole Mount	1	855T-DL1BPM25C	855T-DL1GPM25C
	25 mm Diameter Tube Mount	1	855T-DL1BTMC	855T-DL1GTMC

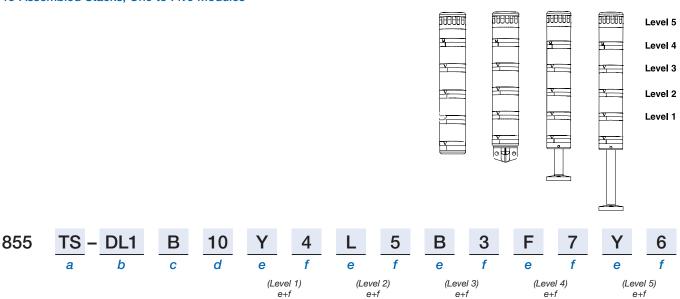
^{*} See previous page for all configurator options.



^{*} All Bases can be purchased without Cap. Remove the "C" from the end of the cat. no.

Product Selection, Continued

Pre-Assembled Stacks, One to Five Modules



а

	Base Type	
Code	Description	
TX	Module Only Stack (No Base)	
TC	Surface Mount 1/2 in NPT Conduit	
TS	Surface Mount PG16 Conduit	
TR	Surface Mount M20 x 1.5 Conduit§	
TV	Vertical Mount	
TP	10 cm Pole Mount	
TE	25 cm Pole Mount	
TM	25 mm Diameter Tube Mount	
	h	

	Network Options		
Code	Description		
Blank	Standard		
DL1	DeviceNet Mini-Connect with 1 m Cable∗		
DM1	DeviceNet Micro-connect with 1 m Cable∗		
DS2	DeviceNet Stranded Wire Connect with 2 m Cable∗		

Housing Color	
Code	Description
В	Black
G	Gray

d

	Voltage
Code	Description
12	12V AC/DC Full Voltage
24	24V AC/DC Full Voltage
10	120V AC Full Voltage
20	240V AC Full Voltage

е

Module Type					
Code	Description				
D	Steady Incandescent				
F	Flashing Incandescent				
Υ	Steady LED				
L	Flashing LED				
В	Strobe				
Т	Steady Incandescent/with Sound®				
Н	Flashing Incandescent/with Sound®				
J	2-Circuit Steady Incandescent with Sound				
Ε	Steady LED/with Sound∜				
G	Flashing LED/with Sound∜				
Z	Strobe/with Sound∜				
Α	Transducer Style Single Tone Sound Module®				
W	Transducer Style Dual Tone Sound Module®				
K	Single Circuit Piezo Alarm UL Type 12, IP54				
М	Dual Circuit Piezo Alarm UL Type 12, IP54				
Р	Single Circuit Piezo Alarm UL Type 4/4X/13, IP65				
Q	Dual Circuit Piezo Alarm UL Type 4/4X/13, IP65				

1

	Lens Color					
Code	Description					
1	Sound Module‡					
3	Green					
4	Red					
5	Amber					
6	Blue					
7	Clear					
8	Yellow					



^{*} DeviceNet bases DL1, DM1, or DS2 can only be used with 24V AC/DC.

^{*}Only one sound module or light module/with sound can be assembled per stack. These modules must always be placed in the top position.

[‡] Sound module from Table f can only be selected with single tone or dual tone module types from Table e.

[§] Base type **TR** is not available with DeviceNet network option.

	Description		Cat. No.	
	Incandescent Lamps	Oat. No.		
21	12V AC/DC		855T-L12	
	24V AC/DC		855T-L24	
(BA15d Bayonet)	120V AC		855T-L10	
19mm Socket Height	240V AC		855T-L20	
	Description	Color	Cat. No.	
	LED Lamps for Socket-Mounted Modules	Red	855E-LL12R	
		Green	855E-LL12G	
		Amber	855E-LL12A	
	12V AC/DC	Blue	855E-LL12B	
		White*	855E-LL12W	
		Red	855E-LL24R	
		Green	855E-LL24G	
	24V AC/DC	Amber	855E-LL24A	
CIA		Blue	855E-LL24B	
		White*	855E-LL24W	
		Red	855E-LL10R	
3		Green	855E-LL10G	
	120V AC	Amber	855E-LL10A	
		Blue	855E-LL10B	
		White∗	855E-LL10W	
		Red	855E-LL20R	
		Green	855E-LL20G	
	240V AC	Amber	855E-LL20A	
		Blue	855E-LL20B	
		White∗	855E-LL20W	
	Description	Color	Cat. No.	
AB	Caps (top of stack) The cap is installed to the top of the uppermost light module. No cap is needed if the top module is a sound module, or a light/with sound module.	Black	855T-ABCAP	
QUALITY	The cap is installed to the top of the uppermost light module. No cap is needed if the top module is a sound module, or a light/with sound module.	Gray	855T-AGCAP	
	Gaskets Lens O-Ring Seal Replacement rubber O-rings are to be installed between all bases, light, sound, and light/with sound modules. (Must order multiples of 5.)	855T-ASFG 855T-APFG		
0	Surface Mount Gasket Replacement flat gasket is to be placed between the mounting surface and the surface mount base. (Must order multiples of 5.) To be used with Cat. No. 855T-BSB and 855T-BCB bases.			
	Pole Foot Gasket Replacement flat gasket is to be placed between the mounting surface and the pole base bottom foot. (Must order multiples of 5.) To be used with Cat. No. 855T-BPM10, 855T-BPM25, and 855T-BPM40 pole bases.			

^{*} White LED lamps are to be used with a lens option of Clear.



Accessories, Continued

	Description	Cat. No.
.0.	Gaskets Vertical Mount Gasket Replacement flat gasket is to be placed between the mounting surface and the vertical mount base. (Must order multiples of 5.)	855T-AVFG
	Tube Mount Gasket Replacement O-ring gasket is to be placed in the tube mount pole opening before the tube is installed (BTM- and GTM- type bases). (Must order multiples of 5.)	855T-AVTG
	Mounting Screw Washer Kit Replacement flat washers are used to provide a seal where the mounting screw meets the pole and vertical bases (not required for surface mount bases). (1 kit includes 20 pcs.)	855T-AMSG
0 2	Description	Cat. No.
	Junction Boxes Black Surface Mount with PG16 Threaded Side Entrance	855T-BSMP
	Black Surface Mount with M20 Threaded Side Entrance	855T-BSMR
	Black Surface Mount with 1/2 in NPT Threaded Side Entrance	855T-BSMN
	Black Vertical Mount with PG16 Side Entrance	855T-BVMP
	Black Vertical Mount with M20 Side Entrance	855T-BVMR
	Black Magnetic Mount with PG16 Threaded Side Entrance	855T-BMMP
	Black Magnetic Mount with M20 Threaded Side Entrance	855T-BMMR
	Black Magnetic Mount with 1/2 in NPT Threaded Side Entrance	855T-BMMN
	Black PG16 Threaded Hole Plug	855T-ABUP
	Black M20 Threaded Hole Plug	855T-ABUR
	Black PG16 Threaded Cable Gland	855T-ABCP
1	Black M20 Threaded Cable Gland	855T-ABCR
	Black 1/2 in NPT Sealing Connector	855T-ABHN
	Package of 4 (M5 x 40 screws) for Mounting Pole Mount Base to Junction Box	855T-AJBS
	Vertical Mount Bracket For use with 855T Surface Mount Base	440E-A17172



70mm Control Tower™ Stack Lights Specifications

		Mechanical Ratings				
Shock and Vibration			e of mounting; tower lights are so are reference guidelines for maxin			
		1 Module Stack	3 Module Stack	5 Module Stack		
Standard Dage	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		
Standard Bases	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		
DeviceNet Bases	Surface Mount Base or 10 cm Aluminum Pole Base	50 G Shock 45 G Shock 5 G Vibration 1.5 G Vibration		35 G Shock 0.75 G Vibration		
Jevicenet Bases	Vertical Base or 25 cm Aluminum Pole Base	50 G Shock 3.5 G Vibration	30 G Shock 1.25 G Vibration	20 G Shock 0.5 G Vibration		
Recommended Wire S	izes		0.52.5 mm2 (2214 AWG)			
Recommended Termin	al Torque		0.8 Nm (7 lb-in.)			
		Environmental Ratings				
	Light Modules with Cap		IP65/UL Type 4/4X/13			
	Light Modules/with Sound		IP65/UL Type 4/4X/13			
	Sound Modules (SA1, SA2, TA1, TA2)	IP54/UL Type 12				
ngress Ratings	Sound Modules (SA3, TA3)	IP65/UL Type 4/4X/13				
	Surface, Vertical, Tube Mount Bases	IP65/UL Type 4/4X/13				
	Pole Mount Bases (Aluminum)	IP65/UL Type 4/13				
	Pole Mount Bases (Stainless Steel)	IP65/UL Type 4/4X/13				
Temperature Ratings –	_ Operating Temperature	-25+70 °C (-13+158 °F)				
All Products	Storage Temperature	-40+85 °C (-40+185 °F)				
		Materials				
Bases, Cap, Lens Cov	er, Sound Module Housings		Polycarbonate (94V-0)			
Lenses			Polycarbonate (94V-2)			
Lamp Socket			Polycarbonate (94V-2)			
Rubber Seals and Gas	kets		Nitrile Rubber			
Pole (for aluminum pol	e assembly)	Aluminum				
Pole Base Footing (for	aluminum pole base)	Glass-Filled Nylon 66				
Pole (for stainless stee	I pole assembly)	Stainless Steel				
Pole Base Footing (for	stainless steel pole base)	Zinc				
Insulation Sleeve (for p	ole insulation)	Pol	ystyrene/Polyphenylene Ether Ble	end		
Surface and Vertical M Mount Housing	ount Pole Connection Box and Magnetic	Polycarbonate				
Mounting Screw Wash	ers	Polypropylene				
DeviceNet Base Grom	met		Neoprene			
DeviceNet Cable Jacke	ets	CPR Chlorinated Polyethylene				
DeviceNet Cable Conn	ectors		Santoprene			
		Certifications				
UL/cUL File Number			All products — E14840			
CE		Standard Bases, Light Modules and Sound Modules— EN 60947-5-1 DeviceNet Bases — EN 60947-5-1, EN 50081-2				



Specifications, Continued

		Performanc	e Ratings						
	Description	12V AC/DC	24V AC/DC	120V AC	240V AC				
	Steady Incandescent	0.5 MSCP 2.5 MSCP 6.3 Lumens 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				
Light	Strobe	3 Joules							
Output	Steady, Flashing, Socket Mount LED Red		6800	mcd					
	Steady, Flashing, Socket Mount LED Green		10000) mcd					
	Steady, Flashing, Socket Mount LED Amber		4000 mcd						
	Steady, Flashing, Socket Mount LED Blue	3000 mcd							
	Steady, Flashing, Socket Mount LED White	2700 mcd							
		Operating	Voltage						
	Description	12V AC/DC	24V AC/DC	120V AC	240V AC				
Light O	nly 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%)				
Light M	odules/with Sound	12V AC/DC (± 10%)							
Sound I	Modules			120V AO 00 112 (± 1070)	240V AO 00 112 (± 1070)				
	A	Lamp Life Rating verage Life Under Static,							
	Description	12V AC/DC	24V AC/DC	120V AC	240V AC				
Incande	escent Modules†‡	8000 hrs	7000 hrs	3000 hrs	1600 hrs				
LED Mo	odules	100000 hrs							
Strobe	Modules	15000 hrs							
Sound I	Modules	20000 hrs							

[†] First failures at about 35% of average life. Failures under severe vibration at 44% of average life.

[‡] Using lamps in flashing applications can reduce published life expectancy by as much as 50%.

Specifications, Continued

		Current	Consumption				
	Description	12V AC/DC	24V AC/DC	120V AC	240V AC		
	Steady Incandescent	208 mA	271 mA	58 mA	23 mA		
Light Only Modules	Steady or Flashing LED	47 mA	28 mA	11 mA	11 mA		
viodulos	Strobe	240 mA	170 mA	50 mA	35 mA		
	Steady Incandescent/with Sound	218 mA	281 mA	78 mA	43 mA		
	Flashing Incandescent/with Sound	218 mA	281 mA	78 mA	43 mA		
Light Modules/	Steady or Flashing LED/with Sound (Red, Amber, Yellow)	100 mA	62 mA	22.5 mA	20 mA		
with Sound	Flashing Incandescent/with Sound	65 mA	35 mA	22.5 mA	20 mA		
	Steady or Flashing LED/with Sound (Green, Blue, White)	250 mA	180 mA	70 mA	55 mA		
Transducer Style Sound Modules	Single and Two Circuit Modules	30 mA	65 mA	110V/50 Hz 120V/60 Hz 60 mA	230V/50 Hz 240V/60 Hz 60 mA		
Piezo Style Sound Modules	Single and Two Circuit Modules	27 mA	45 mA	43 mA	40 mA		
DeviceNet B	ases	_	70 mA	_	_		
		Flashing Frequenc	cy (Light Only Modules)				
Flashing Inca	andescent Modules		12V module appi 24V, 120V, and 240V mod Time ON/Tin				
Flashing LED) Modules	Flashing frequency approximately 1.5 Hz Time ON/Time OFF = 1:1					
Strobe Modules		Flashing frequency approximately 2 Hz (flash duration 1/50,000 second)					
	Flashing and	Tone Frequency (Light M	odules/with Sound Set at C	ontinuous Tone)			
Tone Freque	ncy		Tone frequency is prese	t at 2400 Hz or 3300 Hz			
Flashing Inca	andescent/with Sound	12V module approximately 1.5 Hz 24V, 120V, and 240V modules approximately 1.6 Hz					
Flashing LED)/with Sound		Flashing frequency a	pproximately 1.5 Hz			
Strobe/with \$	Sound	Flashing frequency approximately 1.4 Hz					
	Flashing and To	one Pulsing Frequencies (L	ight Modules/with Sound S	et at Pulsing Tone)			
Tone Freque	ncy		Tone frequency is prese	t at 2400 Hz or 3300 Hz			
Steady Incar	ndescent/with Sound	Sound Pulsing Frequency — 1.5 Hz					
Flashing Inca	andescent/with Sound		Flashing and Pulsing for 12V module app for 24V, 120V, and 240V module	oroximately 1.5 Hz,			
LED Steady/	with Sound		Sound Pulsing Fre	equency — 1.5 Hz			
LED Flashing	g/with Sound		Flashing and Pulsing Freq	uency the same at 1.5 Hz			
Strobe/with S	Sound		Flashing and Pulsing Freq	uency the same at 1.4 Hz			
		dB Rating (Sound Modules)				
	All dB(A		distance of 1 meter from so	und module			
Selectable To	one Sound Module (SA1, TA1)			4103 dB(A) (volume adjusta signal horn which has a max			
Piezo Sound	Module (SA2, TA2)		High 97 dB / Low 85 dB,				
Piezo Sound	Module (SA3, TA3)		High 107 dB / Low 92 dB	, selectable via dip switch			
Piezo Light N	Modules and Light Modules/with t continuous or pulsing tone)		High 107 dB / Low 92 dB				
		Leakage (Current Impact				

All light modules, sound modules, and light/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.

12V AC/DC, 24V AC/DC, 120V AC, 240V AC	All light/sound combination modules				
DeviceNet Bases					
Baud Rate Options	125 K, 250 K, 500 K, Autobaud				



Tone Tables

Transducer Style Single Tone/Single Circuit Sound Module (SA1)

	Dip Switch Position	Ton Descri		Speed	Upper Frequency	Lower Frequency	Volume
	ON 1 2 3 4	Triangle Tone	\sim	722 Hz	1500 Hz	500 Hz	80 100 dB(A)
	ON	Continuous Tone	_	_	*	500 Hz	83 100 dB(A)
	ON	Interrupted Tone		0.5 1.5 Hz	*	500 1500 Hz	83 103 dB(A)
	ON	Changing Tone	\mathcal{M}	0.5 1.5 Hz	500 1500 Hz	500 1500 Hz	83 103 dB(A)
	ON	Saw Tooth Tone Ascending	M	0.5 1.5 Hz	500 1500 Hz	500 1500 Hz	83 103 dB(A)
Adjustable Sound Settings	ON 1 2 3 4	Saw Tooth Tone Descending	W	0.5 1.5 Hz	500 1500 Hz	500 1500 Hz	83 103 dB(A)
	ON 1 2 3 4	Sine Wave Tone	\sim	0.5 1.5 Hz	500 1500 Hz	500 1500 Hz	82 102 dB(A)
	ON 1 2 3 4	DIN-Emergency Signal	DIN 33404	1 Hz	1200 Hz	500 Hz	82 102 dB(A)
	ON	Siren (Non- Repeating)	(B)	24 s	1500 Hz	500 Hz	83 103 dB(A)
Volume Lower Upper Speed Freq. Freq.	ON 1 2 3 4	Signal Horn Continuous Tone		_	*	100 350 Hz	64 80 dB(A)
	ON	Three Tone Gong	7_	24 s	550) Hz) Hz) Hz	76 95 dB(A)
	ON	Two Tone Gong	2	23 s) Hz) Hz	75 93 dB(A)
Rotated View of Sound Settings	ON 1 2 3 4	Gong	-	13 s	*	500 1500 Hz	75 93 dB(A)

^{*} Set to maximum (+).

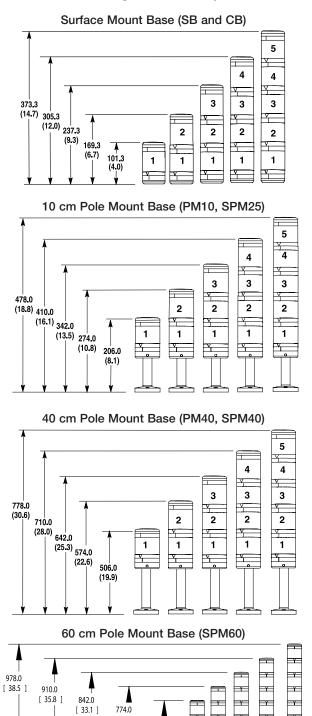
Transducer Style Dual Tone/Dual Circuit Sound Module (TA1)

	Dip Switch Position	Tone A		Tone B	
	ON 1 2 3 4	Triangle Tone	^	Continuous Tone	_
	ON	Continuous Tone		Changing Tone	\mathbf{M}
	ON 1 2 3 4	Continuous Tone		Interrupted Tone	
	ON 1 2 3 4	Interrupted Tone		Three Tone Gong	7_
	ON	Interrupted Tone		Siren (Non-Repeating)	1
	ON	Changing Tone	\mathbf{M}	DIN-Emergency Signal	DIN 33404
Adjustable Sound Settings	ON 1 2 3 4	Saw Tooth Tone Ascending	M	Continuous Tone	_
	ON 1 2 3 4	Saw Tooth Tone Descending	W	Interrupted Tone	
	ON 1 2 3 4	Sine Wave Tone	\sim	DIN-Emergency Signal	DIN 33404
+	ON 1 2 3 4	DIN-Emergency Signal	DIN 33404	Three Tone Gong	7_
Volume Lower Upper Speed Freq. Freq.	ON 1 2 3 4	Siren (Non-Repeating)	(M)	Triangle Tone	M
Freq. Freq.	ON	Signal Horn (Continuous Tone)		Continuous Tone	
	ON 1 2 3 4	Three Tone Gong	7_	Sine Wave Tone	\sim
	ON 1 2 3 4	Two Tone Gong	L	Two Tone Gong (Non-Repeating)	L
Rotated View of Sound Settings	ON 1 2 3 4	Gong	-	Continuous Tone	

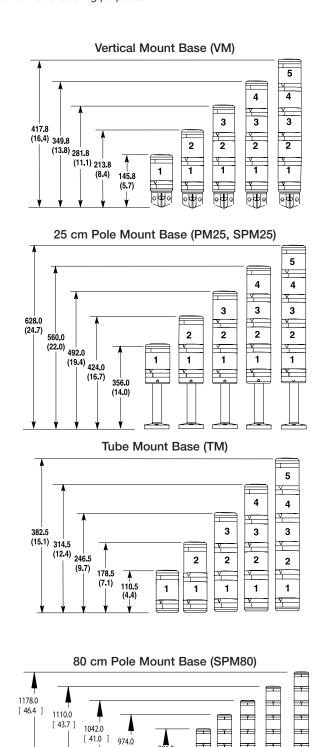
Approximate Dimensions

Dimensions in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

Assembled Stacks — Light Modules Only



[30.5]





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[38.3]

Dimensions in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

Assembled Stacks — Light Module/with Sound on Top*

Surface Mount Base (SB and CB) Vertical Mount Base (VM) . . 300000 | 394.8 | (15.5) 326.8 | | (12.9) 258.8 | (10.2) | 439.3 | (17.3) 371.3 | (14.6) 303.3 | (12.0) 235.3 | (9.3) | 3 3 2 190.8 500000 122.8 (4.8) (7.5) 1 1 167.3 (6.6) 10 cm Pole Mount Base (PM10, SPM10) 25 cm Pole Mount Base (PM25, SPM25) THUUUH 3 3 499.5 (19.7) _{431.5} 649.5 | (25.6) 581.5 2 2 (17.0) _{363.5} | (14.3) (22.9) 513.5 | | (20.2) 445.5 295.5 (11.6) 227.5 1 (17.5) 377.5 | (14.9) (9.0)Tube Mount Base (TM) 40 cm Pole Mount Base (PM40, SPM40) 100000 5 5 4 4 **THUUT** 10000 404.0 (15.9) 3 3 3 336.0 | (13.3) _{268.0} 3 STUDENT . 799.5 (31.5) | 731.5 | (28.8) 636.5 | (25.1) 595.5 | (20.8) | (20.8) | (20.8) | 100000 2 1 2 2 2 2 2 (10.6)200.0 132.0 (5.2) 1 1 1 1 1 60 cm Pole Mount Base (SPM60) 80 cm Pole Mount Base (SPM80) WHY 1199.5 [47.2]

1131.5

[44.5]

1036.5

[40.8]

995.5

[39.1]

927.5 [36.5]

999.5 [39.4]

931.5

[36.7]

836.5

[32.9]

795.5

[31.3]

727.5

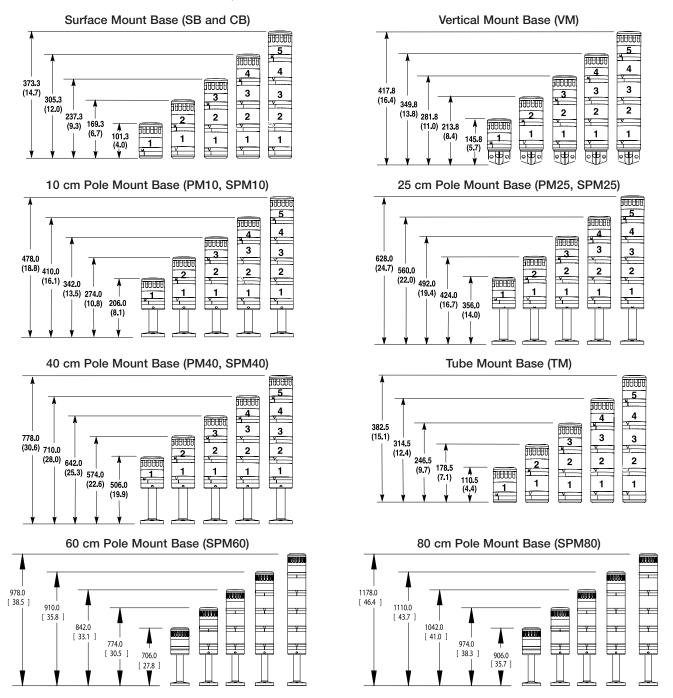
[28.6]

^{*} A 2-circuit light/sound module uses two circuits in a stack. It can be used with a maximum of three light modules and must be placed in the top position of a

Approximate Dimensions, Continued

Dimensions in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

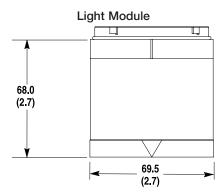
Assembled Stacks — Sound Module on Top*

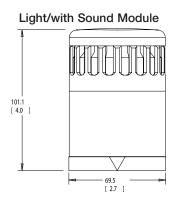


^{*} A 2-circuit/dual tone sound module uses two circuits in a stack. It can be used with a maximum of three light modules and must be placed in the top position of a stack.

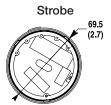
Dimensions in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

Component Dimensions

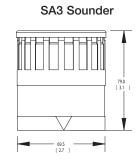


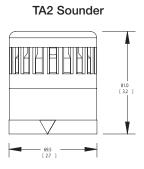


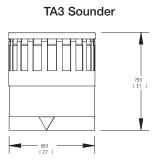
Steady, Flashing Incandescent or LED



\$A2 Sounder







Approximate Dimensions, Continued

Dimensions in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

Component Dimensions

