Allen-Bradley

855E 50 mm
Control Tower™ Stack Lights

Another Bright Idea From Rockwell Automation

Allen-Bradley
RELIANCE ELECTRIC
DODGE
ROCKWELL SOFTWARE
Rockwell Automation

Stack Lights Designed To Put You In Control

The 855E 50 mm Control Tower™ Stack Light is the essence of Allen-Bradley application-driven design. This cost-effective system is small and efficient, offering greater flexibility, reliability, and increased productivity. Like other Allen-Bradley products, it is designed to reduce the time and cost of installation, configuration, maintenance and repair, lowering your total cost of ownership.

Unique flexibility

When it comes to flexibility – you won't find another system on the market offering this variety of options.

Features shared with the popular 855T 70 mm:

- Three base mounting options: surface mounting where minimal height is required, pole mounting for increased visibility, and side mounting for vertical equipment surfaces and walls
- Six lens colors: red, amber, green, blue, yellow, and clear
- Five illumination options: incandescent in steady or flashing, LED in steady or flashing, and strobe
- Four voltage levels for a variety of signaling applications: 12 VAC/DC, 24 VAC/DC, 120 VAC, 240 VAC
- Base housing colors are either black or grey to fit in virtually any commercial or industrial setting
- Stacking configurations 1 to 5 modules high

Additional Features of the 50 mm:

- Provided tamper resistance with lens securing screws that lock modules together
- Compact appearance with the new slim line design

The 50 mm Control Tower™ Stack Light line is the newest addition to Rockwell Automation Allen-Bradley family of signaling products. The 50 mm delivers bright reliable, easy-to-install signaling solutions that keep your processes running efficiently under safe operating conditions.

Our Control Tower™ Stacks Up In Any Environment

Our Control Tower™ Stack Lights are rated IP65 and UL Type 4/4X/13, for dirty, wet and corrosive environments. They are water-resistant, corrosion-resistant and oil-resistant – critical in pulp and paper, automotive, food processing, and packaging plant environments. All components are CE, UL and cUL listed.

High performance and Reliability

That's why Allen-Bradley products are the most reliable in the industry. You can count on them to perform every time. Our Control Tower™ signaling lights are no exception. Only high-grade, heavy-duty industrial polycarbonate is used to construct our modules and bases. We believe high quality and superior reliability translate into long lasting performance.

Process improvement through efficient control and monitoring

Our 50 mm Control Tower™ Stack Lights are durable, reliable, and effective. They bring organization to your manufacturing process through efficient control and automatic monitoring. To help reduce downtime, our Stack Lights will signal breakdowns and material shortages, when used with programmable logic controllers and sensors. Safety will improve by alerting a press operator immediately of any hazards. Our signal light solutions are designed to deliver confidence and have a proven track record meeting automation challenges.

Control Light Systems

All systems are go – the machine is in run mode

Machine may be low on parts or machine functions are out of sync

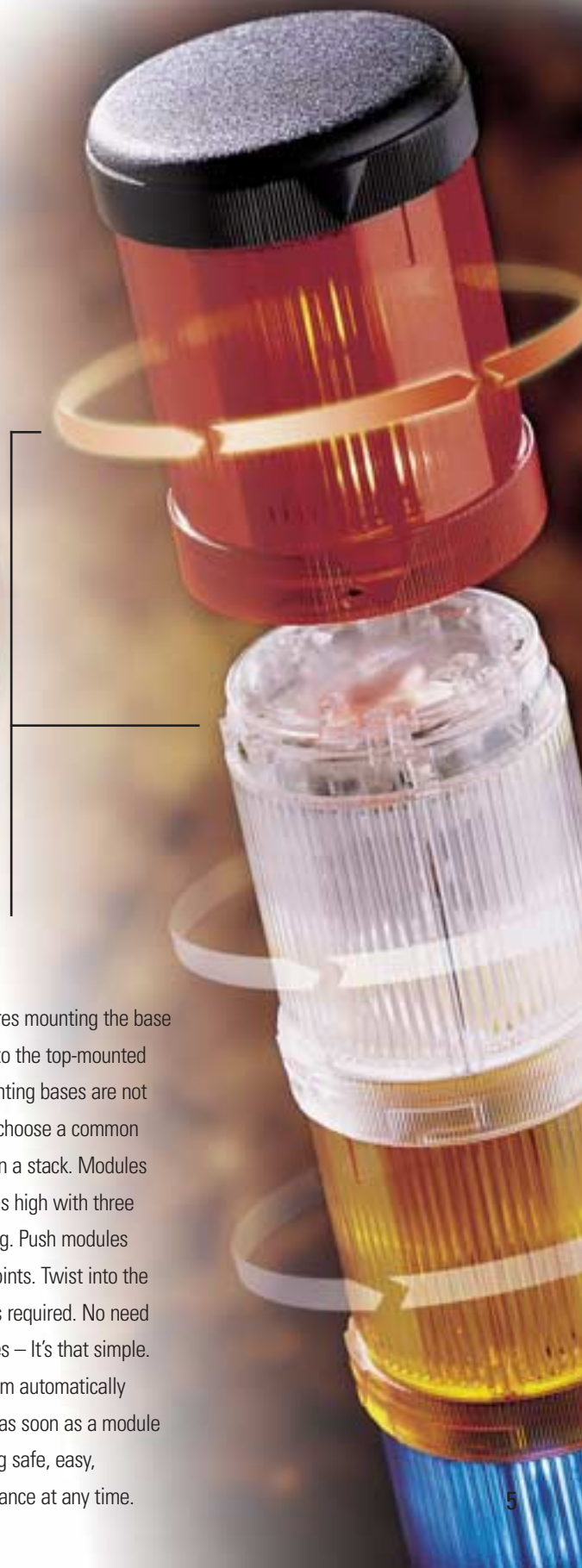
Optimize workflow and safety by signaling process status

Flashing or steady red light may signal mechanical breakdown or work stoppage

You Can Trust

Identifies potential problems and breakdowns

Optimize workflow and safety by signaling process status



Easy installation to illumination

Installation simply requires mounting the base to a surface and wiring to the top-mounted terminal block. Our mounting bases are not voltage specific, simply choose a common voltage for all modules in a stack. Modules stack one to five modules high with three choices of base mounting. Push modules together at alignment points. Twist into the locked position. No tools required. No need to wire between modules – It's that simple. Also, our signaling system automatically de-energizes the power as soon as a module is disconnected, allowing safe, easy, installation and maintenance at any time.

Ordering Made Easy

Bases

855E – a b c

a	Housing Color
Code	Description
B	Black
G	Gray

b	Base Type
Code	Description
CB	Surface-Mount with ½" NPT Threading
RB	Surface-Mount with M20 Metric Threading
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

c	Cap Option
Code	Description
Blank	No Cap
C	Cap Included

Light Modules

855E – a b c

a	Voltage
Code	Description
00	0-250 VAC/DC No-Lamp Module [1]
12	12 VAC/DC Full Voltage
24	24 VAC/DC Full Voltage
10	120 VAC Full Voltage
20	240 VAC Full Voltage

b	Light Module Type
Code	Description
XN	Steady No-Lamp [1]
DN	Steady Incandescent
FN	Flashing Incandescent
TL	Steady Socket-Mount LED
GL	Flashing Socket-Mount LED
BR	Strobe

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

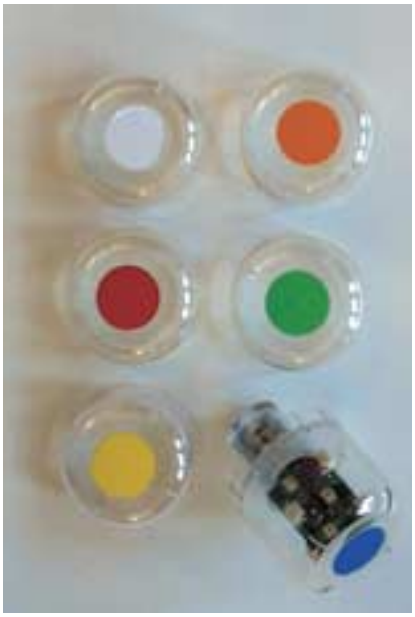
[1] Can only be selected with module type XN-voltage code 00.

Accessories

	Caps
Cat. No.	Description
855E-ABCAP	Black Cap
855E-AGCAP	Gray Cap

	Securing Screws
Cat. No.	Description
855E-ASC	Bag of 5 Securing Screws

	Gaskets
Cat. No.	Description
855E-ALSG	Non-silicone O-ring Gasket for sealing between bases, modules, and caps
855E-ASFG	Surface Mount Gasket for 855E (SB, RB, CB) Surface Bases
855T-APFG	Pole Mount Gasket for 855E & 855T Pole Bases (PM10, 25, 40, 60, 80)
855T-AVFG	Vertical Mount Gasket for 855E & 855T (VM) Vertical Bases
855T-AVTG	Tube Mount Flat Gasket for sealing between 855E and 855T (TM) bases and poles
855T-AMSG	Sealing Gasket for use with mounting screws on pole bases and vertical bases



LED Lamps
with BA15 socket

855E – LL a b

a	Voltage
Code	Description
12	12 VAC/DC
24	24 VAC/DC
10	120 VAC
20	240 VAC

b	LED Lamp Color
Code	Description
R	Red
G	Green
A	Amber
B	Blue
W	White
Y	Yellow

Incandescent Lamps

	Incandescent Replacement Lamps
Cat. No.	Description
855T-L12	12 VAC/DC
855T-L24	24 VAC/DC
855T-L10	120 VAC
855T-L20	240 VAC

	Lamp Removal Tool
Cat. No.	Description
800T-N82	Incandescent Lamp Removal Tool for 50 mm Stack Lights

Environmental Ratings		
Ingress Ratings	All light modules and bases with cap	IP65, UL Type 4/4X/13
Operating Temperature	All Products	-25…+50°C (-13…+122°F)
Storage Temperature	All Products	-40…+85°C (-40…+185°F)

Materials

Bases, caps, lenses, lamp sockets	Polycarbonate
Rubber seals and gaskets	Nitrile rubber
Pole (for aluminum pole bases)	Aluminum
Pole base footing	Polycarbonate
Pole Tube Liner (for pole insulation)	Polystyrene/Polyphenylene Ether Blend
Mounting screw washers	Polyprophenylene
Module Securing Screws	Stainless Steel

Approvals

All products — C UL US CE — File Number E14840

EN 60947-5-1

Light Module Current Consumption [A]				
Description	12 VAC/DC	24 VAC/DC	120 VAC	240 VAC
Steady & Flashing Incandescent	0.208	0.271	0.058	0.023
Steady & Flashing LED Green, Blue, White	0.065	0.035	0.020	0.020
Steady & Flashing LED Red, Amber, Yellow	0.095	0.045	0.020	0.020
Strobe	0.095	0.060	0.055	0.030

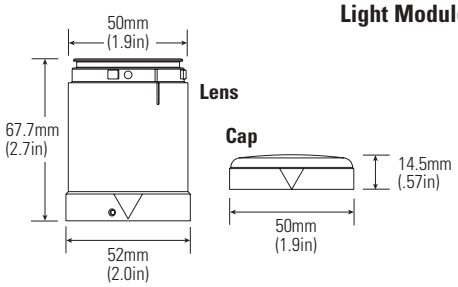
Light Module Peak Inrush Current [A]				
Description	12 VAC/DC	24 VAC/DC	120 VAC	240 VAC
Steady Incandescent	1.9	3.0	0.5	0.2
Flashing Incandescent	0.9	1.5	0.6	0.2
Steady & Flashing LED (all colors)	0.10 – 0.15	0.15	0.25 – 0.60	0.2–0.5
Strobe	8.0	8.0	4.0	1.0

Lamp Life Ratings (average hrs under static, no vibration conditions)				
Description	12 VAC/DC	24 VAC/DC	120 VAC	240 VAC
Incandescent[1]	8,000	7,000	3,000	1,600
LED (all colors)	100,000			

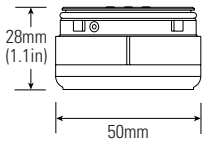
[1] First failures measured at about 35% of average life. Failures under severe vibration at 44% of average life. Using lamps in flashing applications can reduce published life expectancy by 50%.

Dimensions

Light Modules

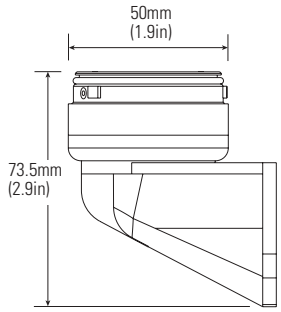


Surface-Mount Base



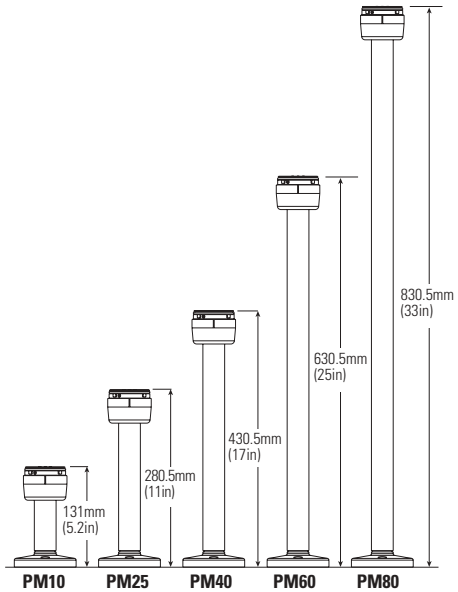
SB, CB, RB

Vertical-Mount Base



VM

Pole-Mount Bases

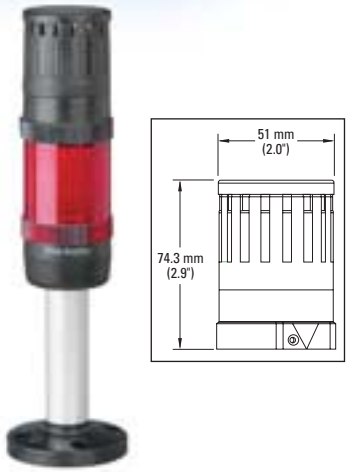


All pole bases have a 70mm (2.8) inch diameter

Control Tower™ 50 mm Watertight Sound Modules

Rockwell Automation is introducing new 855E 50 mm ultra-high output sound modules that focus on performance. This new addition to the 855E 50 mm Control Tower Stack Light line is packaged in a watertight housing with a sound output of 103 dB at a distance of 1 meter. The 855E products were designed to offer unmatched status indication performance in a variety of applications ranging from dry packaging, to food processing, to clean-room applications. The ultra-bright light modules and the new ultra-loud sound modules make the 855E offering the best choice for audible and visual status indication in the slim-line stack light market.

- **Reliable Ultra-High Output Sound** – Sound output of 103 dB at a distance of 1 meter. This is approximately 15-20% louder than other sound modules offered in a comparable size product.
- **Easy Volume Adjustment** – Because the sound output is so high, Allen-Bradley offers a dip-switch with a reduced volume setting. This dipswitch allows easy adjustment of the volume.
- **Flexibility** – The tone selection feature offers continuous or pulsing tone choices. The single-circuit module will signal one condition and the two-sound circuit module is capable of signaling two different conditions in one stack, each with a different tone.



Available in a Black or Gray housing color to match the color of your base selection.

Sound Module Selection Information

855E- a b c

a	Housing Color
Code	**Description**
B	Black
G	Gray

b	Voltage
Code	**Description**
12	12 VAC/DC
24	24 VAC/DC
10	120 VAC
20	240 VAC

c	Sound Module Type
Code	**Description**
SA3	Single circuit with selections of continuous or pulsing
TA3	Dual circuit/two tone with continuous and pulsing tones

Sound module must be mounted in top position of the stack.

Specification Overview				
Sound Output	High Volume Setting: 103 dB(A) @ 1 meter (+/- 3 dB)			
	Low Volume Setting: 88 dB(A) @ 1 meter (+/- 3 dB)			
Ingress Ratings	IP65 and UL Type 4/4X/13			
Operating Temperature	-25°C to +50°C (-13°F to +122°F)			
Storage Temperature	-40°C to +85°C (-40°F to +185°F)			
Materials	Polycarbonate			
Current Consumption	**12 VAC/DC**	**24 VAC/DC**	**120 VAC**	**240 VAC**
Single tone/1 circuit module	12 mA	25 mA	33 mA	33 mA
Dual tone/2 circuit module	12 mA	25 mA	33 mA	33 mA
Approvals	CULus File Number E14840, CE File Number EN60947-5-1			
Leakage Current	All modules immune at leakage current of 3 mA or less			

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