Allen-Bradley

855T Overview
Control Tower™
Stack Lights

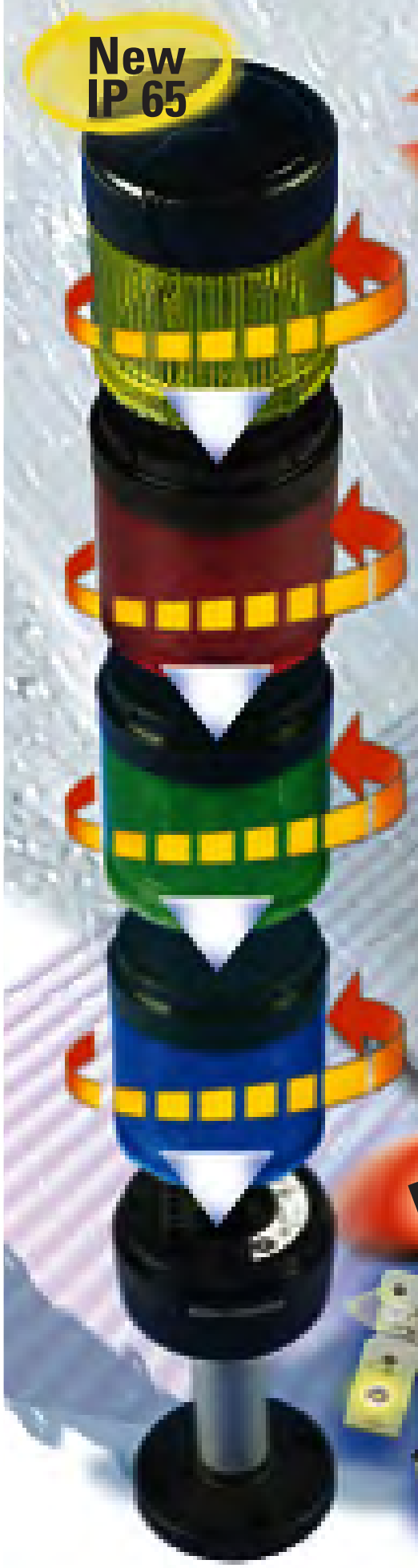
The Unique Stack Light Line

Modular Variety
Easy Assembly
Consistent Solution

Allen-Bradley
RELIANCE ELECTRIC
DODGE
ROCKWELL SOFTWARE
Rockwell Automation

Bringing Together Leading Brands in Industrial Automation

Allen-Bradley Control Tower™ Stack Lights



Top Level

These modules have be placed on the top of the Control Tower and occupy one or two levels.

Any Level

These modules can be placed at any level and can be combined to a Control Tower of max. five levels.

New

Socket-mount LED Lamps

855T-LL24R	red	24 VAC/DC
855T-LL24G	green	24 VAC/DC
855T-LL24A	amber	24 VAC/DC
855T-LL24B	blue	24 VAC/DC
855T-LL24W	white	24 VAC/DC
855T-LL20R	red	240 VAC
855T-LL20G	green	240 VAC
855T-LL20A	amber	240 VAC
855T-LL20B	blue	240 VAC
855T-LL20W	white	240 VAC

Incandescent bulbs

855T-L24	Light bulb BA15	24 VAC/DC
855T-L20	Light bulb BA15	240 VAC

IP 54

Top two levels:

Two Circuit Combo Modules:

	24 VAC/DC	240 VAC
Steady incandescent / with sound	855T-B24DD3	855T-B20DD3
Steady incandescent / with sound	855T-B24DD4	855T-B20DD4
Steady incandescent / with sound	855T-B24DD5	855T-B20DD5
Steady incandescent / with sound	855T-B24DD6	855T-B20DD6
Steady incandescent / with sound	855T-B24DD7	855T-B20DD7
Steady incandescent / with sound	855T-B24DD8	855T-B20DD8

Modules contain two circuits enabling separate operation of light and sound

Top two levels:

Dual Tone Sound Modules:

24 VAC/DC	240 VAC
855T-B24TA1	855T-B20TA1

Dual Tone Sound Modules with
15 sets of dual tone combinations

IP 65

Light Modules Green:

	24 VAC/DC	240 VAC
Steady No-lamp	855T-B00XN3	0-240 VUC
Steady incandescent	855T-B24DN3	855T-B20DN3
Flashing incandescent	855T-B24FN3	855T-B20FN3
Strobe	855T-B24BR3	855T-B20BR3
NEW Socket-mount steady LED	855T-B24TL3	855T-B20TL3
NEW Socket-mount flashing LED	855T-B24GL3	855T-B20GL3
Fix mounted rotating LED	855T-B24RL3	855T-B20RL3

Light Modules Red:

	24 VAC/DC	240 VAC
Steady No-lamp	855T-B00XN4	0-240 VUC
Steady incandescent	855T-B24DN4	855T-B20DN4
Flashing incandescent	855T-B24FN4	855T-B20FN4
Strobe	855T-B24BR4	855T-B20BR4
NEW Socket-mount steady LED	855T-B24TL4	855T-B20TL4
NEW Socket-mount flashing LED	855T-B24GL4	855T-B20GL4
Fix mounted rotating LED	855T-B24RL4	855T-B20RL4

Surface Bases

855T-BSB
Surface base without cover

855T-BSBC
Surface base with cover

Vertical Bases

855T-BVM
Vertical base without cover

855T-BVMC
Vertical base with cover

Top one level:

Combo Modules (Light Modules / with Sound):

	24 VAC/DC	240 VAC
Steady incandescent / with sound	855T-B24DC3	855T-B20DC3
Flashing incandescent / with sound	855T-B24FC3	855T-B20FC3
Strobe / with sound	855T-B24BC3	855T-B20BC3
Steady incandescent / with sound	855T-B24DC4	855T-B20DC4
Flashing incandescent / with sound	855T-B24FC4	855T-B20FC4
Strobe / with sound	855T-B24BC4	855T-B20BC4
Steady incandescent / with sound	855T-B24DC5	855T-B20DC5
Flashing incandescent / with sound	855T-B24FC5	855T-B20FC5
Strobe / with sound	855T-B24BC5	855T-B20BC5

Modules contain light option with a sound device operating simultaneously

For LED's, other functions or colours please see Publication A113 March 2000 for complete 855T Control Tower Stack Light Product information

Light Modules Amber:

	24 VAC/DC	240 VAC
Steady No-lamp	855T-B00XN5	0-240 VUC
Steady incandescent	855T-B24DN5	855T-B20DN5
Flashing incandescent	855T-B24FN5	855T-B20FN5
Strobe	855T-B24BR5	855T-B20BR5
NEW Socket-mount steady LED	855T-B24TL5	855T-B20TL5
NEW Socket-mount flashing LED	855T-B24GL5	855T-B20GL5
Fix mounted rotating LED	855T-B24RL5	855T-B20RL5

Light Modules Blue:

	24 VAC/DC	240 VAC
Steady No-lamp	855T-B00XN6	0-240 VUC
Steady incandescent	855T-B24DN6	855T-B20DN6
Flashing incandescent	855T-B24FN6	855T-B20FN6
Strobe	855T-B24BR6	855T-B20BR6
NEW Socket-mount steady LED	855T-B24TL6	855T-B20TL6
NEW Socket-mount flashing LED	855T-B24GL6	855T-B20GL6

Pole Bases

855T-BPM10	10 cm pole mount base without cover
855T-BPM10C	10 cm pole mount base with cover
855T-BPM25	25 cm pole mount base without cover
855T-BPM25C	25 cm pole mount base with cover

DeviceNet Surface Bases

855T-DM1BSBC	Micro connector	1 m cable
855T-DS2BSBC	Stranded wire	2 m cable

Without cover remove the "C" at the end

IP 54

Top one level:

Single Tone Sound Modules:

24 VAC/DC	240 VAC
855T-B24SA1	855T-B20SA1

Single Tone Sound Modules with
13 different tones adjustable

IP 65

Light Modules Clear:

	24 VAC/DC	240 VAC
Steady No-lamp	855T-B00XN7	0-240 VUC
Steady incandescent	855T-B24DN7	855T-B20DN7
Flashing incandescent	855T-B24FN7	855T-B20FN7
Strobe	855T-B24BR7	855T-B20BR7
NEW Socket-mount steady LED	855T-B24TL7	855T-B20TL7
NEW Socket-mount flashing LED	855T-B24GL7	855T-B20GL7

Light Modules Yellow:

	24 VAC/DC	240 VAC
Steady No-lamp	855T-B00XN8	0-240 VUC
Steady incandescent	855T-B24DN8	855T-B20DN8
Flashing incandescent	855T-B24FN8	855T-B20FN8
Strobe	855T-B24BR8	855T-B20BR8

Recommended to use a amber LED when a LED has to be used

DeviceNet™
CONFORMANCE TESTED

DeviceNet Vertical Bases

855T-DM1BVMC	Micro connector	1 m cable
855T-DS2BVMC	Stranded wire	2 m cable

Without cover remove the "C" at the end

DeviceNet Pole Bases

855T-DM1BPM10C	10 cm pole, Micro connector	1 m cable
855T-DS2BPM10C	Stranded wire	2 m cable
855T-DM1BPM25C	25 cm pole, Micro connector	1 m cable
855T-DS2BPM25C	Stranded wire	2 m cable

Without cover remove the "C" at the end

Extract of the standards for the definition and selection of signalling lights according to EN 981 / EN 60073

Safety of machinery - System of auditory and visual danger and information signals

To reduce risks associated with misinterpretation of visual and auditory danger signals, a system of danger and information signals is specified taking into account the different degrees of urgency.

This European Standard is applicable to all danger and information signals which have to be clearly perceived and differentiated, by other requirements or by the work situation, and to all degrees of urgency - from extreme urgency to an ALL CLEAR situation.Where visual signals are to be complementary to sound signals, the signal character is specified both.

This European Standard does not apply to certain fields covered by specific standards or other conventions in force (international or national); in particular, fire alarms, medical alarms, alarms used in the field of public transport, navigation signals and signals for special fields of activity (for example, military). When new signals are being planned, however, this European Standard should be considered in order to avoid inconsistency.

Schema for character of auditory signals

Meaning	Sound	Remarks	Light
Danger act urgently	SWEEPING Sliding increase or decrease in frequency at a rate of 5 Hz/s … 5 Hz/ms permilted during (variation cycle)	Highest sweeping rate principally for high tone frequencies, and vice versa. Lowest rate not to be used for sound segments shorter than 5 s, and not for tone frequencies above 400 Hz	RED
Danger act urgently	BURSTS, quick-pulses When grouped, at least five pulses in each group. Pulse frequency 4 Hz … 8 Hz (pulse length 60 ms to 100 ms)	Reverberation can cause perceptual difficulty at pulse frequencies above 5 Hz. See EN 457	RED
Danger act urgently	ALTERNATING Stepwise sequence of two or three distinct pitches, each segment 0.15 s … 1.5 s	Intensity as well as duration of the ON phase of sound segments equal	RED
Caution be alert	SHORT sound Constant spectrum, minimum duration 0,3 s	When different sound segment lengths are used, a ratio of 1:3 is recommended	YELLOW
Command mandatory action	SEQUENCE Two or three different sounds, each with constant spectrum		BLUE
Normal condition all clear	PROLONGED sound Constant spectrum	Signal given after PUBLIC ALARM shall not be interrupted within 30 s	GREEN

Degrees of protection provided by enclosures (IP Code) according to IEC 529

This standard describes a system for classifying the degrees of protection provided by the enclosures of electrical equipment.

Table I: Degrees of protection against access to hazardous parts indicated by the first characteristic numeral

First characteristic numeral	Brief description	Definition
0	Non-protected	-
1	Protected against access to hazardous parts with the back of a hand	The access probe, sphere of 50 mm Ø, shall have adequate clearance from hazardous parts
2	Protected against access to hazardous parts with a finger	The jointed test finger of 112 mm Ø, 80 mm length, shall have adequate clearance from hazardous parts
3	Protected against access to hazardous parts with a tool	The access probe of 2,5 mm Ø shall not penetrate
4	Protected against access to hazardous parts with a tool	The access probe of 1,0 mm Ø shall not penetrate
5	Protected against access to hazardous parts with a tool	The access probe of 1,0 mm Ø shall not penetrate
6	Protected against access to hazardous parts with a tool	The access probe of 1,0 mm Ø shall not penetrate
Note	In the case of the first characteristic numerals 3, 4, 5 and 6, protection against access to hazardous parts is satisfied if adequate clearance is kept. Due to the simultaneous requirement specified in Table II the definition «shall not penetrate» is given in Table I.	

Table II: Degrees of protection against water indicated by the second characteristic numeral

Second characteristic numeral	Brief description	Definition
0	Non-protected	-
1	Protected against vertically falling water drops	Vertically falling drops shall have no harmful effects
2	Protected against vertically falling waterdrops when enclosure tilted up to 15°	Vertically falling drops shall have no harmful effects when the enclosure is tilted at any angle up to 15° on either side of the vertical
3	Protected against spraying water	Water sprayed at an angle up to 60° on either side of the vertical shall have no harmful effects
4	Protected against splashing water	Water splashed against the enclosure from any direction shall have no harmful effects
5	Protected against water jets	Water projected in jets against the enclosure from any direction shall have no harmful effects
6	Protected against powerful water jets	Water projected in powerful jets against the enclosure from any direction shall have no harmful effects
7	Protected against the effects of temporary immersion in water	Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed in water under standardized conditions of pressure and time
8	Protected against the effects of continuous immersion in water	Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is continuously immersed in water under conditions which shall be agreed between manufacturer and user but which are more severe than for numeral 7

Examples of designations with the IP Code

IP Code not using optional letters

		see table I	see table II
Code letters	**IP**		
1st characteristic numeral		**3**	
2nd characteristic numeral			**4**

Protection of an enclosure with designation IP 34:

IP **3**4 - protects persons, handling tools having a diameter of 2,5 mm and greater, against access to hazardous parts;

- protects the equipment inside the enclosure against ingress of solid foreign objects having a diameter of 2,5 mm and greater;

IP 3**4** - protects the equipment inside the enclosure against harmful effects due water splashed against the enclosure from any direction.

855T Control Tower™ Socket-mount LED Lamps

Bulletin 855T Control Tower Stack Lights family offers convenient cost-saving socket-mount LED light modules and combination light with sound modules.

Profit from these benefits:

- Socket-mount LED lamps are designed for use with Bulletin 855T light modules and combination light with sound modules (combo modules).
- Modules accept either LED or incandescent lamps, helping to lower the total cost of ownership through cost-effective maintenance. LED lamp life is up till ~100'000h.
- Existing modules in the field can be easily modified to an LED module.
- Same no-tools assembly as original modules.
- Stacks with a top cap are UL listed and rated IP65.
- Very striking illumination.
- Strong colors due to the same color of the lens and the luminary.
- Very low power consumption.
- Low inrush current.
- Vibration resistive.
- Silicon free gaskets.

A solution for all applications:

- LED modules are available in steady or flashing.
- LED lamp colors available: Red, green, amber and NEW blue and white.
- LED lamps are available in all four Stack Light voltages: 12 V, 24 V, 120 V, 240 V.
- Steady modules available without lamp.

CONTROLTOWER

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Wherever you need us, Rockwell Automation brings together leading brands in industrial automation including Allen-Bradley controls, Reliance Electric power transmission products, Dodge mechanical power transmission components, and Rockwell Software. Rockwell Automation's unique, flexible approach to helping customers achieve a competitive advantage is supported by thousands of authorized partners, distributors and system integrators around the world.

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