



Signaling Specifications

Bulletin Numbers 854J, 854K, 855B, 855BS/BM/BL, 855D, 855E, 855F, 855H/HM, 855L, 855P, 855R, 855T, 855W, 855X/XM, 856T

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Bulletin 856T 70 mm Control Tower Stack Lights

These devices give you the flexibility to meet the widest range of applications with a reduced number of components. This system uses a modular design that incorporates brighter LED illumination and a broad offering of sound technologies. All signals in the system are 24V AC/DC powered, which means that just three power modules can cover the entire system. They can be purchased as separate components or as a preconfigured, factory-assembled stack light for optimal flexibility.

Light Modules

Steady LED Module



Multi-function LED Module



Steady/Flashing Beacon Style



856T - B T 4
a b c

a	
Housing Color	
Code	Description
B	Black

b	
Module Type	
Code	Description
T	Steady LED
B	Multi-function LED steady/flashing/strobe 1/strobe 2
R	Rotating LED
MC	7-color LED (RGB) ⁽¹⁾⁽²⁾
GB	Steady/flashing, non-stackable beacon style
SB	Strobe 1/strobe 2, non-stackable beacon style ⁽³⁾
RB	Rotating LED, non-stackable beacon style ⁽⁴⁾
MB	7-color LED (RGB), non-stackable beacon style ⁽¹⁾⁽²⁾

c	
Output Color	
Code	Description
3	Green
4	Red
5	Amber
6	Blue
7	Clear
8	Yellow
9	Magenta ⁽⁵⁾
Blank	For use with Module Type MC and MB only

- (1) Output Color must be Blank (Table c).
- (2) Can use three circuits to display up to seven colors, two circuits to display three colors, or one circuit to display one color.
- (3) Can only be used with Output Color 4, 5, or 6 (Table c).
- (4) Can only be used with Output Color 4 or 5 (Table c).
- (5) Cannot be used with Module Type R and GB (Table b).

Sound Modules

Transducer Sounder



Recordable Sounder



In-line Piezo Sounder



Top-mount Piezo Sounder



856T - $\frac{B}{a}$ $\frac{P1}{b}$

a	
Housing Color	
Code	Description
B	Black

b	
Module Type	
Code	Description
P1	Single-circuit piezo, eight tones, top mount
TR3	Transducer, 16 tone tables/seven tones per table, three circuits ⁽¹⁾
PL1	In-line piezo, single circuit, eight tones
H3	Recordable sounder, up to 7 messages, three circuits ⁽²⁾

- (1) Can use three circuits to play up to seven tones, two circuits to play three tones, or one circuit to play one tone.
- (2) Can use three circuits to play up to seven messages, two circuits to play three messages, or one circuit to play one message

Power Modules

24V AC/DC (seven circuits)



120/240V AC (three circuits)



120/240V AC (seven circuits)



856T - $\frac{B}{a}$ $\frac{24}{b}$ $\frac{C}{c}$

a	
Housing Color	
Code	Description
B	Black

b	
Voltage	
Code	Description
24	24V AC/DC, seven circuits
AC3	90...250V AC, three circuits
AC7	90...250V AC, seven circuits

d	
Cap Option	
Code	Description
C	Cap included

IO-Link Module

IO-Link Module



856T - $\frac{B}{a} \frac{24}{b} \frac{LC}{c}$

a	
Housing Color	
Code	Description
B	Black

b	
Voltage	
Code	Description
24	24V DC

d	
Cap Option	
Code	Description
LC	Cap not included

Base Mounting Adapters

Surface-mount 1/2 in. NPT

Surface-mount with screws

Vertical-mount

Pole-mount

Threaded Tube-mount



856T - $\frac{BMA}{a} \frac{P10}{b}$

a	
Housing Color	
Code	Description
BMA	Black

b	
Mounting Style	
Code	Description
SN	NPT surface mount, Type 4/4X/13
VM	Vertical mount
SH	Surface mount NPT, Type 4/4X/13, pre-installed mounting hardware
P10	10 cm (3.9 in.) aluminum pole mount
P25	25 cm (9.8 in.) aluminum pole mount
P40	40 cm (15.7 in.) aluminum pole mount
P60	60 cm (23.6 in.) aluminum pole mount
T10	10 cm (3.9 in.) threaded tube (M20)
T25	25 cm (9.8 in.) threaded tube (M20)

Pre-assembled Bases

Surface-mount with M12 Micro-connector (5-pin)



Surface-mount with M12 Micro-connector (8-pin)



Surface-mount for 24V AC/DC (7 circuits)
Cat. No. 856T-B24SNC



Vertical-mount for 120/240V AC (7 circuits)
Cat. No. 856T-BA7VMC



Quick-release Five Levels (pre-wired)



10 cm Pole for 120/240V AC (3 circuits)
Cat. No. 856T-BA3P10C



856T -
 a b c d e

a	
Network Option	
Code	Description
Blank	No network option

b	
Housing Color	
Code	Description
B	Black

c	
Voltage	
Code	Description
24	24V AC/DC, seven circuits
A3	90...250V AC, three circuits
A7	90...250V AC, seven circuits

d	
Mounting Style	
Code	Description
SN	1/2 in. NPT surface mount
VM	Vertical mount
SH	Surface mount, preinstalled mounting hardware
P10	10 cm (3.9 in.) aluminum pole mount
P25	25 cm (9.8 in.) aluminum pole mount
P40	40 cm (15.7 in.) aluminum pole mount
P60	60 cm (23.6 in.) aluminum pole mount
T10	10 cm (3.9 in.) threaded tube (M20)
T25	25 cm (9.8 in.) threaded tube (M20)
Q10	10 cm (3.9 in.) quick release ⁽¹⁾
Q25	25 cm (9.8 in.) quick release ⁽¹⁾
Q05	5-pin M12 connector, M30 mounting thread ⁽¹⁾
Q08	8-pin M12 connector, M30 mounting thread ⁽¹⁾

e	
Cap Option	
Code	Description
C	Cap included

(1) Can only be used with Voltage code 24 (Table c).

Pre-configured Control Tower Lights, 1...7 Modules

856TC	-	P10	B	24	Y	4	B	5	B	3	R	7	Y	6	R	8	B	6	
		a	b	c	d	e	f	e	f	e	f	e	f	e	f	e	f	e	f
		(Level 1, e+f)		(Level 2, e+f)		(Level 3, e+f)		(Level 4, e+f)		(Level 5, e+f)		(Level 6, e+f)		(Level 7, e+f)					

a	
Network Options	
Code	Description
Blank	No network option
L	IO-Link communication ⁽¹⁾

b	
Base Type	
Code	Description
SN	1/2 in. NPT surface mount
VM	Vertical mount
SH	Surface mount, preinstalled mounting hardware
P10	10 cm (3.9 in.) aluminum pole mount
P25	25 cm (9.8 in.) aluminum pole mount
P40	40 cm (15.7 in.) aluminum pole mount
P60	60 cm (23.6 in.) aluminum pole mount
Q10	10 cm (3.9 in.) quick release ^{(2) (3)}
Q25	25 cm (9.8 in.) quick release ^{(2) (3)}
QD5	5-pin M12 connector ^{(2) (4)}
QD8	8-pin M12 connector ⁽²⁾
T10	10 cm (3.9 in.) threaded tube (M20)
T25	25 cm (9.8 in.) threaded tube (M20)
X	No base (modules only) ⁽⁵⁾

c	
Housing Color	
Code	Description
B	Black

- (1) IO-Link communication is available with Base Type codes SN, VM, SH, P10, P25, P40, P60, T10, and T25 only (Table b).
 (2) Must be used with Voltage code 24 (Table d).
 (3) Maximum number of circuits is five.
 (4) Maximum number of circuits is four.
 (5) Voltage code Blank (Table d) must be for this option.

d	
Voltage	
Code	Description
24	24V AC/DC, seven circuits ⁽¹⁾
A3	90...250V AC, three circuits
A7	90...250V AC, seven circuits
Blank	For use with Base Type code X only (Table b)

e	
Module Type	
Code	Description
Y	Steady LED
B	Multi-function LED steady/flashing/strobe 1/strobe 2
R	Rotating
MC	7-color LED (RGB) ^{(2) (3)}
P	Top mount piezo sounder ⁽⁴⁾
T	Transducer ^{(4) (5)}
D	Beacon, steady/flashing ⁽⁴⁾
K	Beacon, strobe 1/strobe 2 ^{(4) (6)}
Z	Beacon, rotating ^{(4) (7)}
MB	Beacon, multicolor ^{(2) (3) (4)}
W	In-line piezo sounder
H	Recordable sounder ^{(4) (8)}

f	
Output Color/Sound	
Code	Description
1	Sound module ⁽⁹⁾
3	Green
4	Red
5	Amber
6	Blue
7	White
8	Yellow
9	Magenta ⁽¹⁰⁾
Blank	For use with Module Type code MC and MB only (Table e)

- (1) For IO-Link configurations, Voltage code 24 is 24V DC only.
 (2) Output Color code must be Blank (Table f).
 (3) Can use three circuits to display up to seven colors, two circuits to display three colors, or one circuit to display one color.
 (4) Must be in top position.
 (5) Can use three circuits to play up to seven tones, two circuits to play three tones, or one circuit to play one tone.
 (6) Can only be used with Output Color codes 4, 5, or 6 (Table f).
 (7) Can only be used with Output Color codes 4 or 5 (Table f).
 (8) Can use three circuits to play up to seven messages, two circuits to play three messages, or one circuit to play one message.
 (9) Can only be selected with Module Type codes P, H, T, and W (Table e).
 (10) Cannot be used with Module Type codes R, D, K, and Z (Table e).