Original Instructions



# **Signaling Specifications**

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

Торіс	Page
Summary of Changes	2
Bulletin 855P Panel-mount Signaling Alarms	3
Panel-mount Sounder	3
Panel-mount Combined Sounder with LED Beacon	3
Panel-mount Strobe	3
Panel-mount Selectable Steady or Flashing LED Beacon	3
Panel-mount Dual-circuit Alarms	5
Bulletin 855L Panel Light Bars	9
Bulletin 855H Industrial Horns	11
General-purpose Electronic Horns	11
High-performance Electronic Horns	13
Recordable Electronic Horns	21
Recordable Electronic Horns with Attached LED Beacons	21
High-performance Electronic Metal Horns	25
High-performance Electronic Metal Horns with Attached LED Beacons	25
Bulletin 855B Industrial Beacons	28
Miniature Square Beacons	28
Industrial Round Beacons	30
Bulletin 855R Industrial Round Beacons	39
110 mm Complete Beacons	39
110 mm LED Modules	40
110 mm Bases	40
Bulletin 855D/855F Compact Control Tower™ Stack Lights	47
30 mm Compact Control Tower Stack Lights	47
70 mm Compact Control Tower Stack Lights	52

Topic	Page
Bulletin 854J/854K Control Tower™ Stack Lights	57
40 mm Control Tower Stack Lights	
60 mm Control Tower Stack Lights	66
Bulletin 855E/855T Control Tower™ Stack Lights	75
50 mm Control Tower Stack Lights	75
70 mm Control Tower Stack Lights	83
Bulletin 856T 70 mm Control Tower Stack Lights	97
Light Modules	97
Sound Modules	98
Power Modules	98
IO-Link Module	
Base Mounting Adapters	<b>9</b> 9
Pre-assembled Bases	100
Pre-configured Control Tower Lights, 17 Modules	101
Bulletin 855W Wall-mount Signal Light	111
Pre-assembled Wall-mount Signal Lights, 25 Light Levels	
Bulletin 855X Hazardous Location Horns, Beacons, and Combination Units	
Alarm Horn Sounders	
Xenon Strobe Beacons	
Combined Horn Sounder and Strobe Beacons	115
Additional Resources	131



### **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** 







#### Steady/Flashing Beacon Style



а	
<b>Housing Color</b>	
Code	Description
В	Black

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

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

- Output Color must be Blank (Table c).
   Can use three circuits to display up to seven colors, two circuits to display three colors, or one circuit to display one color.
   Can only be used with Output Color 4, 5, or 6 (Table c).
   Can only be used with Output Color 4 or 5 (Table c).
   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

a	
Housing Color	
Code	Description
В	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 <sup>(1)</sup>
PL1	In-line piezo, single circuit, eight tones
Н3	Recordable sounder, up to 7 messages, three circuits <sup>(2)</sup>

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

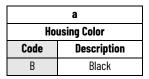
#### **Power Modules**

24V AC/DC (seven circuits)



120/240V AC (three circuits)





b	
Voltage	
Code	Description
24	24V AC/DC, seven circuits
AC3	90250V AC, three circuits
AC7	90250V AC, seven circuits

120/240V AC (seven circuits)



d	
Cap Option	
Code	Description
С	Cap included

### **10-Link Module**

**10-Link Module** 



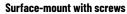
a	
Housing Color	
Code	Description
В	Black

b	
Voltage	
Code	Description
24	24V DC

d	
Cap Option	
Code	Description
LC	Cap not included

### **Base Mounting Adapters**









**Threaded Tube-mount** 











а	
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)



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



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



Quick-release Five Levels (pre-wired)



856T	-	В	24	Q10	C



а	D	С	a
	b		

a	
Network Option	
Code	Description
Blank	No network option

b c		C	
Housing Color		Voltage	
de	Description	Code	Description
}	Black	24	24V AC/DC, seven circuits
		А3	90250V AC, three circuits
		Α7	90250V 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 <sup>(1)</sup>
<b>Q25</b>	25 cm (9.8 in.) quick release <sup>(1)</sup>
QD5	5-pin M12 connector, M30 mounting thread <sup>(1)</sup>
QD8	8-pin M12 connector, M30 mounting thread <sup>(1)</sup>

<sup>(1)</sup> Can only be used with Voltage code 24 (Table c).

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



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



е		
Cap Option		
Code	Description	
С	Cap included	

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

(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 <sup>(2) (3)</sup>		
Q25	25 cm (9.8 in.) quick release <sup>(2) (3)</sup>		
QD5	5-pin M12 connector <sup>(2) (4)</sup>		
QD8	8-pin M12 connector <sup>(2)</sup>		
T10	10 cm (3.9 in.) threaded tube (M20)		
T25	25 cm (9.8 in.) threaded tube (M20)		
Χ	No base (modules only) (5)		

C	
Housing Color	
Code Description	
В	Black

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

d			
	Voltage		
Code	Description		
24	24V AC/DC, seven circuits <sup>(1)</sup>		
А3	90250V AC, three circuits		
Α7	90250V AC, seven circuits		
Blank	For use with Base Type code X only (Table <u>b</u> )		

e		
Module Type		
Code	Description	
Υ	Steady LED	
В	Multi-function LED steady/flashing/strobe 1/strobe 2	
R	Rotating	
MC	7-color LED (RGB) (2) (3)	
Р	Top mount piezo sounder <sup>(4)</sup>	
T	Transducer <sup>(4) (5)</sup>	
D	Beacon, steady/flashing <sup>(4)</sup>	
K	Beacon, strobe 1/strobe 2 (4)(6)	
Z	Beacon, rotating <sup>(4) (7)</sup>	
MB	Beacon, multicolor (2)(3)(4)	
W	In-line piezo sounder	
Н	Recordable sounder <sup>(4) (8)</sup>	

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

- For IO-Link configurations, Voltage code 24 is 24V DC only.
- Output Color code must be Blank (Table f).
- Can use three circuits to display up to seven colors, two circuits to display three colors, or one circuit to display one color.
- Must be in top position.

- (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).