

# E70 Speaker Strobes with Colored Lenses

www.boschsecurity.com



**BOSCH**  
Invented for life



- ▶ Choice of two strobe lens colors with range of intensity options
- ▶ Field-selectable voltages of 25 VRMS or 70 VRMS and powers from 1/8 W to 2 W
- ▶ Wall or ceiling mount on standard electrical boxes
- ▶ Operates from 16 V to 33 V at 1 flash/sec using filtered or full-wave rectified DC voltage
- ▶ Synchronize with SM or DSM Synchronization Modules

The Wheelock E70 Colored-lens Speaker Strobes are effective for alerting personnel in industrial, military, or government applications. They are ideal for mass notification systems and for emergency, warning, or trouble notification in many industrial operations. They are not listed for fire alarm use but are built with the same high-quality circuits and parts used in Wheelock's life safety speaker strobes.

These speaker strobes are available in amber or blue lens colors and include multi-candela models with four field-selectable settings and high-candela (110 cd) models. The speakers have field-selectable voltages (25 VRMS or 70 VRMS) and powers (1/8 W, 1/4 W, 1/2 W, 1 W, or 2 W). They are designed for indoor use and can be either wall or ceiling mounted on standard electrical boxes.

## Certifications and approvals

Region	Certification
USA	UL UUMW: Speakers and Amplifiers for Fire Protective Signaling Systems (UL1480, UL1711, and UL2043) (24MCC model)
	CSFM see our website

## Installation/configuration notes

### Compatible Products

The following products are compatible with these E70 Speaker Strobes:

Category	Product ID	Product Description
Control Panels	D7022 <sup>1</sup>	Conventional FACP
	D7024 <sup>2</sup>	Addressable FACP
	D7024	Conventional FACP
	D8024 <sup>1</sup>	Analog FACP
	D9124 <sup>1</sup>	Addressable FACP
	D10024A <sup>1</sup>	Analog FACP
Modules	SM-12/24-R	Synchronization module (red)
	DSM-12/24-R	Dual synchronization module (red)

These speakers are compatible with Wheelock SAFEPATH4 Facility Communication Systems and Bosch Voice Evacuation Systems.

<sup>1</sup> For synchronization, use the SM or DSM modules with these control panels. The synchronization module must be set for 24 V operation. When used, the D7022 must be set for 24 VDC operation.

<sup>2</sup> When used with a D7039 Multiplex Expansion Module, the D7024 becomes an addressable fire alarm control panel (FACP).

**Mounting Considerations**

Mount these speaker strobes on indoor walls or ceilings. Flush mount on a 4-inch square by 2-1/8-inch deep electrical back box with a 1-1/2-inch deep extension ring. Surface mount on an SBB-W Surface-mount Back Box.

**Wiring**



**Notice**

Do not use these strobe units in coded or pulsed signaling circuits.

The input terminals accept wires with diameters between 18 AWG and 12 AWG (ISO 0.75 mm<sup>2</sup> and 4 mm<sup>2</sup>).

**Parts included**

Quant.	Component
1	Speaker Strobe
1	Hardware pack
1	Literature pack

**Technical specifications**

**Electrical**

Voltage (Input):	24 VDC nominal; 16 VDC or FWR to 33 VDC or FWR
------------------	---

**Strobe Current at 16 V**

**Filtered DC Input**

24110W Models:	110 cd: 300 mA RMS maximum
24MCC Models:	15 cd: 68 mA RMS maximum 30 cd: 112 mA RMS maximum 75 cd: 211 mA RMS maximum 95 cd: 292 mA RMS maximum

**FWR Input**

24110W Models:	110 cd: 455 mA RMS maximum
24MCC Models:	15 cd: 112 mA RMS maximum 30 cd: 178 mA RMS maximum 75 cd: 310 mA RMS maximum 95 cd: 400 mA RMS maximum

**Strobe Current at 24 V**

**Filtered DC Input**

24110W Models:	110 cd: 195 mA RMS maximum
24MCC Models:	15 cd: 45 mA RMS maximum 30 cd: 72 mA RMS maximum 75 cd: 128 mA RMS maximum 95 cd: 171 mA RMS maximum

**FWR Input**

24110W Models:	110 cd: 320 mA RMS maximum
24MCC Models:	15 cd: 80 mA RMS maximum 30 cd: 125 mA RMS maximum 75 cd: 205 mA RMS maximum 95 cd: 263 mA RMS maximum

**Strobe Current at 33 V**

**Filtered DC Input**

24110W Models:	110 cd: 145 mA RMS maximum
24MCC Models:	15 cd: 35 mA RMS maximum 30 cd: 52 mA RMS maximum 75 cd: 89 mA RMS maximum 95 cd: 118 mA RMS maximum

**FWR Input**

24110W Models:	110 cd: 270 mA RMS maximum
24MCC Models:	15 cd: 69 mA RMS maximum 30 cd: 99 mA RMS maximum 75 cd: 163 mA RMS maximum 95 cd: 218 mA RMS maximum

**Environmental**

Relative Humidity:	Up to 85%, non-condensing
Temperature (Operating):	+32°F to +120°F (0°C to +49°C)

**Mechanical**

Candela Settings:	24110W models: 110 cd 24MCC models <sup>1</sup> : 15 cd, 30 cd, 75 cd, 95 cd
Dimensions <sup>2</sup> (H x W x D):	5.1 in. x 5.1 in. x 5.2 in. (13.0 cm x 13.0 cm x 13.3 cm)
Material:	Molded plastic enclosure incorporating a Xenon flashtube and Lexan lens.

<sup>1</sup> 24MCC model settings are rated for clear lenses. Lower the candela rating by approximately 25% for amber and 70% for blue.

<sup>2</sup> When flush mounted the unit extends 2.7 in. (6.8 cm) from the mounting surface.

**Speaker Rating (dBA at 10 ft [3 m])**

1/8 W:	75 dBA
1/4 W:	78 dBA
1/2 W:	81 dBA
1 W:	84 dBA
2 W:	87 dBA

**Trademarks**

All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

## Ordering information

### **E70A-24MCC-NW Multi-candela Speaker Strobe with Amber Lens**

Multi-candela (15 cd, 30 cd, 75 cd, or 95 cd) speaker strobe with amber lens. Not listed for fire alarm use.  
Order number **E70A-24MCC-NW**

### **E70A-24110W-NW High-candela Speaker Strobe with Amber Lens**

High-candela (110 cd) speaker strobe with amber lens. Not listed for fire alarm use.  
Order number **E70A-24110W-NW**

### **E70B-24110W-NW High-candela Speaker Strobe with Blue Lens**

High-candela (110 cd) speaker strobe with blue lens. Not listed for fire alarm use.  
Order number **E70B-24110W-NW**

## Accessories

### **DSM-12/24-R Dual Synchronization Module (red)**

A 12/24 VDC Cooper Wheelock module that synchronizes notification appliances on a single Class A or two Class B circuits.  
Order number **DSM-12/24-R**

### **SM-12/24-R Single Synchronization Module (red)**

A 12/24 VDC Cooper Wheelock module that synchronizes notification appliances on Class B alarm circuits.

#### **Not Available.**

Order number **SM-12/24-R**

### **SBB-W Surface-mount Back Box (white)**

14 cm (5.5 in.) x 14.2 cm (5.6 in.) x 9.1 cm (3.6 in.)  
Order number **SBB-W**

## Represented by:

### **Americas:**

Bosch Security Systems, Inc.  
130 Perinton Parkway  
Fairport, New York, 14450, USA  
Phone: +1 800 289 0096  
Fax: +1 585 223 9180  
security.sales@us.bosch.com  
www.boschsecurity.us

### **Europe, Middle East, Africa:**

Bosch Security Systems B.V.  
P.O. Box 80002  
5617 BA Eindhoven, The Netherlands  
Phone: + 31 40 2577 284  
Fax: +31 40 2577 330  
emea.securitysystems@bosch.com  
www.boschsecurity.com

### **Asia-Pacific:**

Robert Bosch (SEA) Pte Ltd, Security Systems  
11 Bishan Street 21  
Singapore 573943  
Phone: +65 6571 2808  
Fax: +65 6571 2699  
apr.securitysystems@bosch.com  
www.boschsecurity.asia

### **China:**

Bosch (Shanghai) Security Systems Ltd.  
201 Building, No. 333 Fuquan Road  
North IBP  
Changning District, Shanghai  
200335 China  
Phone +86 21 22181111  
Fax: +86 21 22182398  
www.boschsecurity.com.cn

### **America Latina:**

Robert Bosch Ltda Security Systems Division  
Via Anhanguera, Km 98  
CEP 13065-900  
Campinas, Sao Paulo, Brazil  
Phone: +55 19 2103 2860  
Fax: +55 19 2103 2862  
latam.boschsecurity@bosch.com  
www.boschsecurity.com