


**BOSCH**

Invented for life

# S8-24MCCH-FW High-candela Speaker Strobe (white)



- ▶ 24 VDC with a wide UL regulated voltage range using filtered VDC or unfiltered VRMS input
- ▶ Synchronize using SM or DSM Synchronization Modules
- ▶ Field-selectable voltages of 25 VRMS or 70 VRMS and powers from 1/8 W to 8 W
- ▶ Field-selectable strobe intensities of 115 cd or 177 cd
- ▶ High efficiency design for maximum output at minimum wattage across a frequency range of 400 Hz to 4 kHz
- ▶ Compatible with DC circuit supervision

The Wheelock S8-24MCCH-FW High-candela Speaker Strobe provides high audible output with clear audibility at either of its field-selectable voltages (25 VRMS or 70 VRMS) and at all of its field-selectable powers (1/8 W, 1/4 W, 1/2 W, 1 W, 2 W, 4 W, or 8 W). With its field-selectable (115 cd or 177 cd) high-candela strobe it meets the needs of the life safety industry for effective emergency voice communications, tone signaling, and visible signaling to alert the hearing impaired.

The speakers have a 12-inch round metal grill and a molded, flame-retardant core. The strobes produce 1 flash/sec over the regulated voltage range and can be synchronized using the SM or DSM Synchronization Modules.

NYC/MEA	151-92-E
ADA	Complies with Americans with Disabilities Act
ANSI	Complies with American National Standards Institute
NFPA	Complies with National Fire Protection Association
OSHA	Complies with Occupational Safety and Health Administration OSHA 29 Part 1910.165

## Certifications and Approvals

Cooper Wheelock, Inc. holds these Listings and Approvals:

Region	Certification	
USA	UL	UEAY: Speakers (UL464), UUKC: Signaling Appliances and Equipment for the Hearing Impaired (UL1971), UUMW: Speakers and Amplifiers for Fire Protective Signaling Systems (UL1480, UL1711, and UL2043)
	CSFM	7320-0785: 164

## Installation/Configuration Notes

### Compatibility Information

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

### Mounting Considerations

The S8-24MCCH-FW Speaker Strobe is designed to mount flush in a hung tile ceiling. The CBB-8 Circular Back Box or its equivalent is required to meet UL1480 requirements. When the speaker and back box cannot be installed directly through a ceiling tile, a support bridge (SBB-8 or equivalent) must be used.

**Warning** Do not use these speaker strobes in hazardous locations as defined by the National Electrical

Code (NEC) and by NFPA. Do not expose these speaker strobes to rain or moisture. Do not use these speaker strobes on coded systems in which the applied voltage is cycled on and off.

### Wiring Considerations

The terminal block accepts two 12 AWG (2.3 mm) to 18 AWG (1.2 mm) stranded wires at each screw terminal.

### Parts Included

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

### Technical Specifications

#### Environmental Considerations

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

#### Mechanical Properties

Color:	white, powder coat
Weight:	3.75 lb (1.7 kg)

#### Diameter

Grill:	12 in. (30.5 cm)
Speaker:	8 in. (20.3)

#### Material

Grill:	powder-coated metal
Speaker Cone:	molded, flame-retardant plastic
Strobe:	Xenon flashtube with solid-state circuitry enclosed in a Lexan lens

#### Power Requirements

##### Voltage

Range :	16.0 VDC or VRMS to 33.0 VDC or VRMS
Regulated:	24 VDC or VRMS

#### Speaker Characteristics

Frequency Response:	200 Hz to 15 kHz (400 Hz to 4 kHz UL)
Impedance:	8 Ω

#### Decibel Rating 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

4 W:	90 dBA
8 W:	93 dBA

#### Strobe Characteristics

Candela Ratings:	115 cd or 177 cd
------------------	------------------

#### Average RMS Current<sup>1</sup>

At 24 VDC:	115 cd: 195 mA; 177 cd: 270 mA
At UL max:	115 cd: 300 mA; 177 cd: 420 mA

<sup>1</sup> RMS current ratings are per UL average RMS method. UL max current is the maximum RMS current within the listed voltage range.

#### Trademarks

Trademark names are used throughout this document. In most cases, these designations are claimed as trademarks or registered trademarks in one or more countries by their respective owners. Rather than placing a trademark symbol in every occurrence of a trademark name, Bosch Security Systems, Inc. uses the names only in an editorial fashion and to the benefit of the trademark owner with no intention of infringing the trademark.

Lexan is a registered trademark of General Electric Corporation, USA, in the United States and other countries.

SAFEPATH4 is a registered trademark of Wheelock, Inc.

### Ordering Information

#### S8-24MCCH-FW High-candela Speaker Strobe (white)

#### S8-24MCCH-FW

Compatible with Wheelock SAFEPATH4 Facility Communication Systems and Bosch Voice Evacuation Systems

#### Accessories

##### CBB-8 Circular Back Box

##### CBB-8

Overall (flange) diameter of 31.3 cm (12.3125 in.), interior diameter of 24.8 cm (9.75 in.), depth of 10.3 cm (4.1 in.)

##### SSB-8 Ceiling Support Bridge

##### SSB-8

23.75 in. (60.3 cm) long by 14.5 in. (36.8 cm) wide

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

##### SM-12/24-R

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

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

##### DSM-12/24-R

A 12/24 VDC Cooper Wheelock module that synchronizes notification appliances on a single Class A or two Class B circuits.



**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  
5600 JB 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 6258 5511  
Fax: +65 6571 2698  
apr.securitysystems@bosch.com  
www.boschsecurity.com

**Represented by**