

CH70 Multi-candela Chime Strobes

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- ▶ Low current draw with temperature compensation to reduce power consumption and wiring costs
- ▶ 24 VDC, filtered or FWR
- ▶ Adjustable volume and tone
- ▶ Single-stroke or vibrating tone
- ▶ Selectable strobe intensities of 15 cd, 30 cd, 75 cd, or 110 cd

These Wheelock CH70 Multi-candela, Wall-mount Chime Strobes provide a low current draw, a choice of single-stroke or vibrating operation, an adjustable sound level, a chime tone adjustable from 800 Hz to 1200 Hz, and a choice of four light output intensities (15 cd, 30 cd, 75 cd, or 110 cd) in one unit. The strobes can be synchronized using SM (single) or DSM (dual) modules. They also have an attached mounting plate for easy indoor installation on a variety of electrical boxes.

Functions

Sound Mode Settings

The chimes are factory set in single-stroke mode. They can be changed to vibrating mode before wiring by moving a jumper.

Single-Stroke Mode

The minimum input pulse duration must be at least 160 ms on and 160 ms off. The chime only operates once each time it is pulsed. Use this mode for coded systems.

Vibrating Mode

Continuous input voltage must be applied to the chime to activate the chime at 1 sec intervals.

Strobe Settings

The unit comes set at 15 cd. Change the setting using a screwdriver in the slot in the unit's base (setting is visible on indicator plate within the lens).

Volume and Tone Settings

The volume and tone controls are factory set to ensure maximum dBA output. The volume and tone can be tuned to suit a particular application, but appropriate measurements must be taken to ensure the volume meets the listing requirements for private mode fire protective service per UL464.

Certifications and approvals

Cooper Wheelock, Inc. holds these Listings and Approvals:

Region	Certification	
USA	UL	UCST: Audible Signal Appliances, General Signal (UL464), ULSZ: Audible Signal Appliances (UL464), UUKC: Signaling Appliances and Equipment for the Hearing Impaired (UL1971)
	CSFM	see our website

Installation/configuration notes

Compatible Products

The following products are compatible with the CH70 Chime Strobes:

Category	Product ID	Product Description
Control Panels	D7022 ¹	Conventional FACP
	D7024 ²	Addressable FACP
	D7024	Conventional FACP
	D8024 ¹	Analog FACP
	D9124 ¹	Addressable FACP
	D10024A ¹	Analog FACP
	FPD-7024 ²	Addressable FACP
	FPD-7024	Conventional FACP
	FPA-1000	Analog Addressable FACP
Modules	SM-12/24-R	Synchronization module (red)
	DSM-12/24-R	Dual synchronization module (red)

¹ 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.

² When used with a D7039 Multiplex Expansion Module, the FPD-7024 and D7024 become addressable fire alarm control panels (FACPs).

Mounting Considerations

Mount these chime strobes on the indicated back boxes for the indicated applications:

	Conduit Applications	Surface Mounted	Flush Mounted
Four-inch square*			•
SBB Back Box	•	•	

* Requires a four-inch square back box that is 2.125 in. (5.4 cm) deep with a 1.5 in. (3.8 cm) deep extension ring.

Wiring

The input terminals accept wires with diameters between 18 AWG and 12 AWG (ISO 0.75 mm² and 4 mm²).

Parts included

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

Technical specifications

Electrical

Chime Current (maximum):	22 mA
Voltage (input)	24 VDC nominal, filtered or FWR
Strobe Current (maximum):	
15 cd:	VDC: 60 mA FWR: 102 mA
30 cd:	VDC: 92 mA FWR: 155 mA
75 cd:	VDC: 165 mA FWR: 253 mA
110 cd:	VDC: 220 mA FWR: 347 mA

Environmental

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

Mechanical

Candela Ratings:	15 cd, 30 cd, 75 cd, or 110 cd
Dimensions (H x W x D):	5.1 in. x 5.1 in. x 5.2 in. (13 cm x 13 cm x 13.3 cm)
Material:	Molded plastic enclosure with Xenon flashtube and Lexan lens

Chime Ratings at 24 VDC

Reverberant dBA at 10 ft (3 m) per UL464:	Maximum: 58 dBA Minimum: 52 dBA
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Trademarks

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

Ordering information

CH70-24MCW-FR Multi-candela Chime Strobe (red)

Red, wall-mount chime with adjustable volume and single-stroke or vibrating tone; strobe intensities of 15 cd, 30 cd, 75 cd, or 110 cd
Order number **CH70-24MCW-FR**

CH70-24MCW-FW Multi-candela Chime Strobe (white)

White, wall-mount chime with adjustable volume and single-stroke or vibrating tone; strobe intensities of 15 cd, 30 cd, 75 cd, or 110 cd
Order number **CH70-24MCW-FW**

Accessories

ISP2-R Surface Adapter (red)

13.3 cm (5.25 in.) square, 3 cm (1.1875 in.) deep
Order number **ISP2-R**

ISP2-W Surface Adapter (white)

13.3 cm (5.25 in.) square, 3 cm (1.1875 in.) deep
Order number **ISP2-W**

RP-R Retrofit Plate (red)

20.3 cm (8 in.) high, 14.9 cm (5.875 in.) wide
Order number **RP-R**

SBB-R Surface-mount Back Box (red)

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

SBL2-R Retrofit Device Back Box (red)

dimensions 27.8 cm (10.9 in.) x 15.5 cm (6.1 in.) x 4.3 cm (1.7 in.)
Order number **SBL2-R**

SER-R Square Semi-flush Extension Ring (red)

12.7 cm (5 in.) square by 4 cm (1.5625 in.) deep
Order number **SER-R**

SER-W Square Semi-flush Extension Ring (white)

12.7 cm (5 in.) square by 4 cm (1.5625 in.) deep
Order number **SER-W**

SFP-R Semi-flush Plate (red)

15.2 cm (6 in.) square by 0.8 cm (0.3125 in.) thick
Order number **SFP-R**

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