



CH70 Series Square Chimes



- ▶ 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

These Wheelock CH70 Square Chimes provide a low current draw, a choice of single-stroke or vibrating operation, an adjustable sound level, and a chime tone adjustable from 800 Hz to 1200 Hz. 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.

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)
	CSFM	7135-0785: 109

NYC/MEA	151-92-E, Vol. 21, 151-93-E, Vol. 21
CBFP	City of Chicago Bureau of Fire Protection
ANSI	Complies with American National Standards Institute
FCC	Complies with Federal Communications Commission FCC Part 15, Class B
NFPA	Complies with National Fire Protection Association
OSHA	Complies with Occupational Safety and Health Administration OSHA 29 Part 1910.165

Where combination appliances are required, the CH70 Chimes can be used with the RSSP-241575W-FR (15/75 cd), RSSP-24MCW-FR (15 cd, 30 cd, 75 cd, or 110 cd), or RSSP-24MCWH-FR (135 cd or 185 cd) Retrofit Strobe Plates that are designed to meet or exceed the latest requirements of NFPA 72, ANSI 117.0 and UL 1971. The chimes and retrofit strobe plates are also compatible with the SBL2-R Retrofit Device Back Box.

Wiring

The input terminals accept wires with diameters between 18 AWG (1.2 mm) and 12 AWG (2.3 mm).

Installation/Configuration Notes

Compatible Products

The following products are compatible with the CH70 Series Chimes:

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
Modules	SM-12/24-R	Synchronization module (red)
	DSM-12/24-R	Dual synchronization module (red)
	RSSP-241575W-FR	Fixed-candela retrofit strobe plate
	RSSP-24MCW-FR	Multi-candela retrofit strobe plate
	RSSP-24MCWH-FR	High-candela retrofit strobe plate

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 D7024 becomes an addressable fire alarm control panel (FACP).

Mounting Considerations

Mount these chimes 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.

Use as Combination Appliance

Parts Included

Quant.	Component
1	Chime
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)

Chime Ratings at 24 VDC

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

Dimensions (H x W x D):	5.1 in. x 5.1 in. x 0.4375 in. (13 cm x 13 cm x 1.1 cm)
Material:	Molded plastic enclosure

Power Requirements

Chime Current (maximum):	22 mA
Voltage (input)	24 VDC nominal, filtered or FWR

Ordering Information

CH70-24-R Wall-mount Chime (red) Square red chime with adjustable volume and single-stroke or vibrating tone	CH70-24-R
CH70-24-W Wall-mount Chime (white) Square white chime with adjustable volume and single-stroke or vibrating tone	CH70-24-W
Accessories	
ISP2-R Surface Adapter (red) 13.3 cm (5.25 in.) square, 3 cm (1.1875 in.) deep	ISP2-R
ISP2-W Surface Adapter (white) 13.3 cm (5.25 in.) square, 3 cm (1.1875 in.) deep	ISP2-W
RP-R Retrofit Plate (red) 20.3 cm (8 in.) high, 14.9 cm (5.875 in.) wide	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.)	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.)	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.)	SBL2-R
SER-R Square Semi-flush Extension Ring (red) 12.7 cm (5 in.) square by 4 cm (1.5625 in.) deep	SER-R
SER-W Square Semi-flush Extension Ring (white) 12.7 cm (5 in.) square by 4 cm (1.5625 in.) deep	SER-W
SFP-R Semi-flush Plate (red) 15.2 cm (6 in.) square by 0.8 cm (0.3125 in.) thick	SFP-R

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