HS4-24MCW-FR Multi-candela Horn Strobe (red)

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Invented for life

- ▶ 24 VDC, filtered or FWR
- ▶ Four selectable candela settings - 15 cd, 30 cd, 75 cd, or 110 cd
- ▶ Continuous or temporal (Code 3) horn tones
- ▶ Selectable dBA settings (high, medium, or low)
- ▶ Easy wall mounting on a variety of back boxes

This red Wheelock horn strobe is UL Listed for indoor wall-mount applications and provides four selectable candela settings (15 cd, 30 cd, 75 cd, or 110 cd). The horns provide a continuous horn tone or temporal (Code 3) horn tone with three selectable sound output (dBA) settings for each tone. The temporal tone can be synchronized by using an SM (single) or DSM (dual) Synchronization Module or a compatible control panel. The strobe and horn circuits can be operated independently.

Certifications and approvals

Cooper Wheelock, Inc. holds these Listings and Approvals:

Region	Certification	
USA	UL	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 HS4 Horn 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
	FPA-1000	Analog Addressable FACPs
	FPD-7024[2]	Addressable FACP
	FPD-7024	Conventional 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 Synchronization Modules. The synchronization module must be set for 24 VDC operation. When used, the D7022 must be set for 24 VDC operation.
[2] When used with a D7039 Multiplex Expansion Module, the D7024 and FPD-7024 become addressable fire alarm control panels (FACPs).

Mounting Considerations
Indoor Applications
Mount these HS4 Horn Strobes on the indicated back boxes for the indicated applications:

	Conduit Applications	Surface Mounted	Flush Mounted
Double-gang			•
Four-inch square			•
100-mm European			•
IOB[1]	•	•	
SHBB-R	•	•	

[1] Although the IOB Back Box is an indoor or outdoor box, the HS4 Series Horn Strobes are only UL Listed for indoor applications.

Wiring

> **ⓘ Notice**
> The horn circuit of these horn strobes can be used on coded systems where the applied voltage is cycled on and off, but the strobe circuit cannot.

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

Parts included

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

Technical specifications

Electrical

Current (maximum) VDC

Audible only:	High dBA: 110 mA Medium dBA: 68 mA Low dBA: 27 mA
Strobe only:	15 cd: 60 mA 30 cd: 92 mA 75 cd: 165 mA 110 cd: 220 mA

Current (maximum) VFWR

Audible only:	High dBA: 94 mA Medium dBA: 50 mA Low dBA: 41 mA
Strobe only:	15 cd: 102 mA 30 cd: 155 mA 75 cd: 253 mA 110 cd: 347 mA
Voltage (input)	24 VDC nominal filtered or FWR; 16 VDC to 33 VDC

Environmental

Relative Humidity:	Up to 95%, non-condensing
Temperature (Operating):	+32°F to +120°F (0°C to +49°C)

Mechanical

Candela Selections:	15 cd, 30 cd, 75 cd, or 110 cd
Dimensions (H x W x D):	4.125 in. x 4.125 in. x 1.25 in. (10.5 cm x 10.5 cm x 3.2 cm)
Material:	Molded plastic enclosure incorporating a Xenon flashtube and Lexan lens

Horn Ratings at 24 VDC

Continuous Horn

Reverberant dBA at 10 ft (3 m) per UL464:	High: 91 dBA Medium: 88 dBA Low: 83 dBA

Temporal (Code 3) Horn

Reverberant dBA at 10 ft (3 m) per UL464:	High: 87 dBA Medium: 84 dBA Low: 79 dBA

> **ⓘ Notice**
> The sound output for the Temporal (Code 3) mode is rated lower than in Continuous mode because the time that the horn is off is averaged into the sound output rating. When the horn produces a tone in Temporal mode, its sound pressure is the same as the Continuous mode.

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

Ordering information

HS4-24MCW-FR Multi-candela Horn Strobe (red)
Red, 24 VDC device with four selectable candela settings (15 cd, 30 cd, 75 cd, or 110 cd), three selectable sound output (dBA) settings, and a choice of continuous or temporal (Code 3) horn tone
Order number **HS4-24MCW-FR**

Accessories

DBB-R Steel Back Box (red)
8.6 cm (3.375 in.) square, 5.6 cm (2.1875 in.) deep
Order number **DBB-R**

IOB-R Indoor or Outdoor Back Box (red)
13.3 cm (5.25 in.) square, 6.7 cm (2.625 in.) deep
Order number **IOB-R**

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.
Not Available.
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**

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