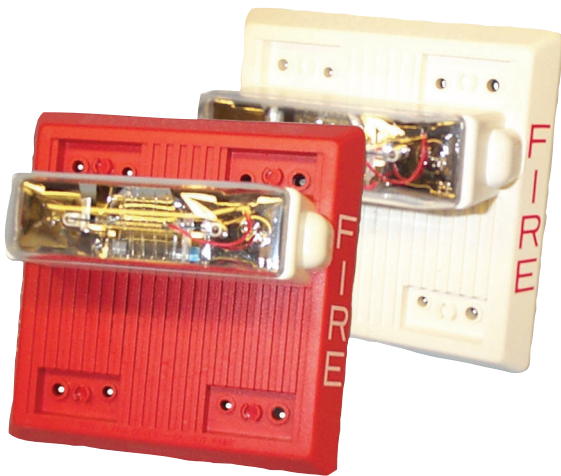


# HS4 High-candela Horn Strobes

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**BOSCH**  
Invented for life



- ▶ 24 VDC, filtered or FWR
- ▶ High-intensity candela settings of 135 cd or 185 cd
- ▶ Continuous or temporal (Code 3) horn tones
- ▶ Selectable dBA settings (high, medium, or low)
- ▶ Easy wall mounting on a variety of back boxes

These Wheelock horn strobes are UL Listed for indoor wall-mount applications and provide two selectable high-intensity candela settings (135 cd or 185 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 <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
	FPD-7024 <sup>2</sup>	Addressable FACP
	FPD-7024	Conventional FACP
	FPA-1000	Analog Addressable FACPs
	Modules	SM-12/24-R
DSM-12/24-R		Dual synchronization module (red)

<sup>1</sup> 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.

<sup>2</sup> When used with a D7039 Multiplex Expansion Module, the FPD-7024 and D7024 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 <sup>1</sup>	•	•	
SHBB-R	•	•	

<sup>1</sup> Although the IOB Back Box is an indoor or outdoor box, the HS4 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<sup>2</sup> and 4 mm<sup>2</sup>).

**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:	135 cd: 300 mA 185 cd: 420 mA
Current (maximum) VFWR	
Audible only:	High dBA: 94 mA Medium dBA: 50 mA Low dBA: 41 mA

Strobe only:	135 cd: 455 mA 185 cd: 645 mA
Voltage (input)	24 VDC nominal filtered or FWR 16 VDC to 33 VDC

**Environmental**

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

**Mechanical**

Candela Selections:	135 cd or 185 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
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**Temporal (Code 3) Horn**

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

**HS4-24MCWH-FR High-candela Horn Strobe (red)**

Red, 24 VDC device with strobe settings of 135 cd or 185 cd, three selectable sound output (dBA) settings, and a choice of continuous or temporal (Code 3) horn tone

Order number **HS4-24MCWH-FR**

**HS4-24MCWH-FW High-candela Horn Strobe (white)**

White, 24 VDC device with strobe settings of 135 cd or 185 cd, three selectable sound output (dBA) settings, and a choice of continuous or temporal (Code 3) horn tone

Order number **HS4-24MCWH-FW**

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**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**

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**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**

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**ISP2-R Surface Adapter (red)**

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

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**ISP2-W Surface Adapter (white)**

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

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**RP-R Retrofit Plate (red)**

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

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**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**

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**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**

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**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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