

# W-ST Series Wall-mount Multi-candela Strobes

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Invented for life



- ▶ Sleek modern aesthetics
- ▶ Multiple voltages (12 VDC or 24 VDC)
- ▶ Voltage test points
- ▶ Eight strobe candela options
- ▶ Universal mounting base

The Cooper Wheelock Exceder Series Strobes feature a sleek modern design that incorporates high reliability and high-efficiency optics to minimize current draw. The reduced current draw allows for a greater number of devices on the two-wire notification appliance circuit. This, in combination with eight candela options in one appliance, no tools needed for changing settings, voltage test points, 12 V or 24 V DC operation, the universal mounting base, and multiple mounting options results in a reduced cost of ownership.

These strobes provide eight candela settings. All the switches to change these settings can be set without a tool and are located behind the appliance to prevent tampering.

The separate universal mounting base can be easily mounted to five industry-standard back box types. They can also be pre-wired to allow full testing of the circuit wiring before the appliance is installed and the surface finished. These wall-mounting strobes also feature voltage test points for taking readings with a volt meter for troubleshooting or AHJ inspection.

## Certifications and Approvals

Cooper Wheelock has also designed these strobes to comply with:

ADA	ADAAG Equivalent Facilitation Guidelines
ANSI	ANSI 117.1
FCC	Tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
NEC	National Electrical Code
NFPA	NFPA 72

Region	Certification	
USA	CSFM	7125-0785:0168
	UL	UUKC: Signaling Appliances and Equipment for the Hearing Impaired (ANSI/UL 1971), UVAV: Visual-signal Appliances for Fire-protective Signaling Systems (ANSI/UL 1638)

## Installation/Configuration Notes

### Compatibility

#### Strobe:

These strobes provide a non-synchronized strobe appliance when connected directly to a Fire Alarm Control Panel (FACP), or provide a synchronized strobe appliance when used in conjunction with an FACP that incorporates the Cooper Notification sync protocol, a Cooper Notification Sync Module, or the Cooper Notification Power Supply. They are designed to flash at 1 flash per second minimum over their Regulated Voltage Range.

#### Notice

Strobes are not designed to be used on coded systems in which the applied voltage is cycled on and off.

### Compatible Products

The following Bosch Security Systems, Inc. products are compatible with the Cooper Wheelock Exceder Series Strobes:

Category	Product ID	Product Description
Control Panels	FPA-1000-UL <sup>1</sup>	Compact Fire Panel
	FPD-7024 <sup>1</sup>	Conventional or Addressable <sup>2</sup> FACP
	D10024A <sup>3</sup>	Analog FACP
	D8024 <sup>3</sup>	Analog FACP
	D9124 <sup>3</sup>	Addressable FACP
	D7024 <sup>3</sup>	Conventional or Addressable <sup>2</sup> FACP
Modules	D7022 <sup>3</sup>	Conventional FACP
	SM-12/24-R	Synchronization module (red)
Power Supplies	DSM-12/24-R	Dual synchronization module (red)
	FPP-RNAC-8A-4C <sup>1</sup>	Remote Notification Appliance Circuit (RNAC) Power Supply
	PS-24-8MC <sup>1</sup>	Power supply with built-in synchronization protocol

<sup>1</sup> These products have built-in Cooper Notification synch protocol.

<sup>2</sup> When used with a D7039 Multiplex Expansion Module, the FPD-7024 or the D7024 becomes an addressable FACP.

<sup>3</sup> For synchronization, use the SM or DSM modules with these control panels.

### Mounting Considerations

The Universal Mounting Base supplied with each strobe can be pre-wired. With the supplied Contact Cover in place, the pre-wired circuit can be checked for continuity before the strobes are mounted. The

strobes snap onto the pre-installed Universal Mounting Bases with the Contact Covers removed and can be secured to the base with an optional securing screw. The Universal Mounting Base flush mounts on single-gang, double-gang, 4 in. square, 4 in. octal, 3.5 in. octal and 100 mm European-type back boxes.

### Wiring Considerations

The wiring terminals on the Universal Mounting Base accept two appliance wires with diameters between 12 AWG (2.3 mm) and 18 AWG (1.2 mm) at each terminal.

## Parts Included

Quant.	Component
1	Strobe appliance
1	Universal mounting base
1	Contact cover
1	Hardware pack <ul style="list-style-type: none"> <li>• Two pan head mounting screws</li> <li>• One securing screw</li> </ul>
1	Literature – Installation Instructions

## Technical Specifications

### Environmental Considerations

Environment:	Indoor, dry
Relative Humidity:	93±2% maximum, non-condensing
Temperature (operating):	+32°F to +120°F (0°C to +49°C)

### Mechanical Properties

Candela Ratings <sup>1</sup> :	15 cd, 15/75 cd <sup>2</sup> , 30 cd, 75 cd, 95 cd, 110 cd, 135 cd, or 185 cd
Dimensions:	5.24 in. x 4.58 in. x 2.19 in. (133.1 mm x 116.4 mm x 55.7 mm)
Material:	Molded plastic enclosure incorporating a Xenon flashtube and Lexan lens.

<sup>1</sup> When set for 12 V operation strobe devices are only approved by UL to be set at 15 cd or 15/75 cd and only to be powered by DC not FWR.

<sup>2</sup> Although this product is UL Listed at 15 cd, it provides 75 cd on axis.

### Power Requirements

#### Strobe Current Draw

#### 24 V nominal (16.0 V to 33.0 V range)

Voltage Type	Current Draw
DC/FWR:	15 cd: 57 mA, 15/75 cd: 70 mA, 30 cd: 85 mA, 75 cd: 135 mA, 95 cd: 163 mA, 110 cd: 182 mA, 135 cd: 205 mA, 185 cd: 253 mA

**12 V nominal (8.0 V to 17.5 V range)**

Voltage Type	Current Draw
DC:	15 cd: 110 mA, 15/75 cd: 140 mA

**Voltage (input)**

Regulated	Range
12 VDC	8.0 V to 17.5 V
24 VDC or Vrms	16.0 V to 33.0 V

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**Ordering Information****W-STR Wall-mount Multi-candela Strobe (two-wire, 12/24 V, red)**

Rectangular red two-wire strobe that is field-selectable for eight candela options.

Order number **W-STR**

**W-STW Wall-mount Multi-candela Strobe (two-wire, 12/24 V, white)**

Rectangular white two-wire strobe that is field-selectable for eight candela options.

Order number **W-STW**

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