ET80 Fixed-candela, Wall-mount, Vandal-resistant Speaker Strobes

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BOSCH
Invented for life

- 25 VRMS or 70 VRMS operation up to 8 W
- Listed at 15 cd, but providing 75 cd on axis
- Low average current draw
- Extra protection and improved audibility through sealed-back speaker construction and vandal-resistant grill
- Compatible with SM and DSM Synchronization Modules

The Wheelock ET80 Fixed-candela Speaker Strobes meet the critical needs of the life safety industry for voice and tone signaling. They have a vandal-resistant die-cast grill, a sealed-back speaker, and a Lexan lens for extra protection.
The high-efficiency speaker is designed for maximum output at a minimum wattage across a frequency range of 400 Hz to 4 kHz and covers both 25 V and 75 V audio systems with a series of wattage taps from 0.125 W to 8 W.
When used with the SM (single) or DSM (dual) Synchronization Modules, the strobe produces a synchronized strobe flash for compliance with ADA guidelines concerning photosensitive epilepsy. All strobe input is compatible with standard reverse polarity type supervision of circuit wiring by a fire alarm control panel (FACP).

Certifications and approvals

Cooper Wheelock, Inc. holds these Listings and Approvals:

Region	Certification	
USA	UL	UUMW: Speakers and Amplifiers for Fire Protective Signaling Systems (UL1480, UL1711, and UL2043)
	CSFM	see our website

Installation/configuration notes

Compatible Products
The following products are compatible with the ET80 Speaker 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)

These speakers are compatible with Wheelock SAFEPATH4 Facility Communication Systems and Bosch Voice Evacuation Systems.

[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 and FPD-7024 become addressable fire alarm control panels (FACPs).

Mounting

These speaker strobes mount on the indicated back boxes for the indicated applications:

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

* Requires an SER extension ring.

Wiring

Notice
Do not use the strobe unit in coded or pulsed signaling circuits.

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	Speaker Strobe
1	Hardware pack
1	Literature pack

Technical specifications

Electrical

Strobe Current (RMS)	
VDC:	6 mA
VFWR:	9 mA
Voltage (Input)	
Nominal:	24 VDC
Range:	16 VDC or FWR to 33 VDC or FWR

Environmental

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

Mechanical

Candela Rating:	15 cd[1]
Dimensions:	5.4375 in. square x 5.6875 in. deep[2] (13.8 cm square x 14.4 cm deep[2])
Material:	Molded plastic enclosure incorporating a Xenon flashtube and Lexan lens.

[1] Although this product is UL Listed at 15 cd, it provides 75 cd on axis.
[2] When used in flush-mount installations, the unit extends 3.4375 in. (8.7 cm) from the mounting surface.

Speaker dB at 10 ft (3 m)

1/8 W	78 dB
1/4 W	81 dB
1/2 W	84 dB
1 W	87 dB
2 W	89 dB
4 W	93 dB
8 W	96 dB

Trademarks

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

Ordering information

ET80-241575W-FR Vandal-resistant Speaker Strobe (red)
Red, vandal-resistant, 24 VDC device providing high audio output with clear audibility, dual voltage capability (25 VRMS or 70 VRMS), field-selectable taps from 1/8 W to 8 W, and strobe listed at 15 cd, but providing 75 cd on axis
Order number **ET80-241575W-FR**

ET80-241575W-FW Vandal-resistant Speaker Strobe (white)
White, vandal-resistant, 24 VDC device providing high audio output with clear audibility, dual voltage capability (25 VRMS or 70 VRMS), field-selectable taps from 1/8 W to 8 W, and strobe listed at 15 cd, but providing 75 cd on axis
Order number **ET80-241575W-FW**

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