ET70WP Weatherproof Speaker Strobes

www.boschsecurity.com

BOSCH

Invented for life

▶ Wall-mount and ceiling-mount models

▶ Weatherproof from -31°F to +150°F (-35°C to +66°C)

▶ 25 VRMS or 70 VRMS operation at a choice of seven taps from 0.125 W to 8 W

▶ Cost-effective two-wire design with easy-to-wire screw terminals

▶ Meets or exceeds NFPA and ANSI standards

The ET70WP Weatherproof Speaker Strobes provide high audio output with clear audibility, and are designed to meet the critical needs of the life safety industry for effective emergency voice communications, tone signaling, and visible signaling. The strobe is rated for 75 cd light intensity on axis at -31°F (-35°C).

A speaker mounting plate with a built-in level adjustment allows for a faster and easier installation. The two-screw grill cover creates an attractive appearance.

The high-efficiency speaker is designed for maximum output at a minimum wattage across a frequency range of 400 Hz to 4 kHz. The speaker has seven power taps from 0.125 W to 8 W.

When used with the SM (single) or DSM (dual) Synchronization Modules, the strobe produces a synchronized 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	Regulatory compliance/quality marks	
USA	UL	UEAY: Speakers (UL464), UUKC: Signaling Appliances and Equipment for the Hearing Impaired (UL1971), UUMW: Speakers and Amplifiers for Fire Protective Signaling Systems (UL1480 and UL1711), UVAV: Visual-signal Appliances for Fire-protective Signaling Systems (ANSI/UL 1638)
	CSFM	see the Bosch website (www.boschsecurity.com)

Installation/configuration notes

Compatible Products

The following products are compatible with the ET70WP Weatherproof 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 module with these control panels. Set the synchronization module for 24 V operation. When used, set the D7022 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

The low profile design of these notification appliances creates more wiring space in standard electrical back boxes. The speaker mounting plate incorporates a built-in level adjustment feature allowing for a faster and easier installation.

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

Back box	Conduit Applications	Surface Mounted	Flush Mounted
IOB Back Box	yes	yes	Indoor only

Outdoor or Severe Environment Applications

For an outdoor or a severe environment (NEMA 3R) application, mount the speaker strobe with an IOB Indoor or Outdoor Back Box on a flat wall so the entire rear surface of the back box is covered. The drain holes in the back box must point toward the ground. The knockouts on the rear surface of the back box must remain intact.

The knockout hole on top of the back box is sized for a half-inch conduit and matching connector. Use a watertight conduit fitting.

Wiring

i **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 mm^2 and 4 mm^2).

Technical specifications

Electrical

Strobe Current at 75 cd (RMS maximum)

VDC	138 mA
VFWR	222 mA

Voltage

Amplifier, switchable	25/70
Strobe, regulated	24 VDC/V$_{RMS}$
Range, regulated	16 to 33 VDC/V$_{RMS}$

Environmental

Relative Humidity	Up to 95%, non-condensing
Temperature (Operating)	-31°F to +150°F (-35°C to +66°C)

Mechanical

Candela ratings

Model	Rated strobe Candela (cd)		
	UL1971	UL1638[1]	Cold ambient[2]
ET70WP-2475C	15	180	115
ET70WP-2475W	30	180	115
ET70WPA-2475W	n/a	145	92

[1] UL1638 is an on-axis rating. It is not to be used for visual public alarm notification applications. For those applications, use UL1971 ratings.

2 All products are listed for indoor and outdoor use. Clear lens products listed for -40°F to +150°F (-40°C to +66°C). Amber lens product listed for -31°F to +150°F (-35°C to +66°C). Both at relative humidity ≤ 95%.

Dimensions (H x W x D)	5.1 in. x 5.1 in. x 5.2 in. (13.0 cm x 13.0 cm x 13.3 cm)
Material	Molded plastic enclosure incorporating a Xenon flashtube and Lexan lens

Speaker Volume (reverberant dBA) at 10 ft. (3 m)

0.125 (1/8) W	77 dBA
0.25 (1/4) W	80 dBA
0.5 (1/2) W	83 dBA
1 W	86 dBA
2 W	88 dBA

4 W	91 dBA
8 W	93 dBA

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

Ordering information

ET70WP-2475C-FR Ceiling speaker/strobe, weatherproof red
Red, ceiling-mount, 24 VDC speaker strobe
Order number **ET70WP-2475C-FR**

ET70WP-2475C-FW Ceiling speaker/strobe weatherpr. white
White, ceiling-mount, 24 VDC speaker strobe
Order number **ET70WP-2475C-FW**

ET70WP-2475W-FR Wall speaker/strobe weatherproof 24V red
Red, wall-mount, 24 VDC weatherproof speaker strobe
Order number **ET70WP-2475W-FR**

ET70WPA2475W-NW Speaker/strobe, amber lens, 75cd, 24V
Red, wall-mount, 24 VDC weatherproof speaker strobe with amber lens
Order number **ET70WPA2475W-NW**

Accessories

IOB-R Surface backbox, indoor/outdoor, red
Order number **IOB-R**