AMT-241575W Multitone, Fixed-candela Electronic Appliances

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BOSCH
Invented for life

▶ Three separate supervised prioritized inputs activate three electrically-isolated signals

▶ Power taps for high dBA and standard dBA

▶ Low current draw with low temperature compensation

▶ Candela rating of 15 cd (75 cd on axis)

▶ Voltage inputs polarized for use with reverse polarity supervision systems

These Wheelock Multitone, Fixed-candela Electronic Appliances provide a candela rating of 15 cd (75 cd on axis) and eight groups of three distinct self-prioritized sound outputs from separate electrically-isolated input terminals. Priority 1 overrides all other commands upon activation.
Choose from high dBA or standard dBA sound output. These appliances operate on 24 VDC, filtered or FWR. Use these appliances in suppression releasing systems, combination security and emergency evacuation systems, and high risk installations.

Functions

Self-Prioritized Tones
Choose any of the following eight groups of self-prioritized tones:
Self-Prioritizing Groups

	Priority 1	Priority 2	Priority 3
1	Horn	Bell	Siren
2	Code 3 Horn*	Siren	Vibrating Chime
3	Slow Whoop	March Time Horn	Hi-Lo
4	March Time Horn	Hi-Lo	Vibrating Chime
5	Code 3 Horn*	Bell	Siren
6	Siren	Horn	Vibrating Chime
7	Bell	March Time Horn	Siren
8	Code 3 Tone*	Hi-Lo	Siren

* The Code 3 Horn and Code 3 Tone , when set for high dBA, incorporate the temporal pattern specified by ANSI and NFPA for standard emergency evacuation signaling. Use them only for fire evacuation signaling and not for any other purpose.

ℹ️ **Notice**
The prioritized tones used in each group are factory set and cannot be changed.

Sound Output Setting
The sound output (high dBA or standard dBA) is set by a DIP switch.

Certifications and approvals

Cooper Wheelock, Inc. holds these Listings and Approvals:

Region	Certification	
USA	UL	UCST: Audible Signal Appliances, General Siganal (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 AMT-241575W 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
	FPD-7024[2]	Addressable FACP
	FPD-7024	Conventional FACP
	FPA-1000	Analog Addressable FACPs
Modules	SM-12/24-R	Synchronization module (red)
	DSM-12/24-R	Dual synchronization module (red)

[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 FPD-7024 and D7024 become addressable fire alarm control panels (FACPs).

Mounting Considerations
Mount these horn strobes on the indicated back boxes for the indicated applications:

	Conduit Applications	Surface Mounted	Semi-flush or Flush Mount
Double-gang			•
Four-inch square*		•	•
DBB Back Box*		•	•
IOB Back Box	•	•	

* Use an ISP2 Surface Adapter between the electronic appliance and the back box.

Retrofit Applications

Where an oversize electrical box is already installed, the AMT horn strobe can be installed with the RP-R Retrofit Plate that measures 8 in. (20.3 cm) high by 5.875 in. (14.9 cm) wide.

Outdoor or Severe Environment Applications
For an outdoor application or a severe environment (NEMA 3R) application, the horn in combination with an IOB Indoor-Outdoor Back Box must be mounted on a flat wall using the supplied mounting ears such that the wall covers the entire rear surface of the back box. The back box must have its drain holes pointed toward the ground. The knockouts in the rear surface of the back box must remain intact. Use the supplied hole plugs to seal the unused mounting holes on the horn's grill.

Wiring

ℹ️ **Notice**
The Continuous Horn and Bell can be used on coded systems with a minimum on-time of 0.25 sec. Do not use the other tones of these horn units 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).

Parts included

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

Technical specifications

Electrical (24 VDC/FWR nominal)

Maximum Current (Audible only):

Continuous Horn:	High dBA: 108 mA (VDC), 92 mA (FWR) Standard dBA: 43 mA (VDC), 50 mA (FWR)
Bell:	High dBA: 57 mA (VDC), 40 mA (FWR) Standard dBA: 26 mA (VDC), 28 mA (FWR)
March Time Horn:	High dBA: 108 mA (VDC), 92 mA (FWR) Standard dBA: 35 mA (VDC), 50 mA (FWR)
Temporal Horn (Code 3):	High dBA: 108 mA (VDC), 92 mA (FWR) Standard dBA: 43 mA (VDC), 50 mA (FWR)
Temporal Tone (Code 3):	High dBA: 60 mA (VDC), 51 mA (FWR) Standard dBA: 30 mA (VDC), 31 mA (FWR)
Slow Whoop	High dBA: 112 mA (VDC), 92 mA (FWR) Standard dBA: 44 mA (VDC), 50 mA (FWR)
Siren	High dBA: 102 mA (VDC), 78 mA (FWR) Standard dBA: 38 mA (VDC), 43 mA (FWR)
Hi-Lo	High dBA: 64 mA (VDC), 49 mA (FWR) Standard dBA: 30 mA (VDC), 34 mA (FWR)

Vibrating Chime	High dBA: 41 mA (VDC), 44 mA (FWR) Standard dBA: 20 mA (VDC), 29 mA (FWR)

Maximum Current (Strobe only):

VDC:	90 mA
VFWR:	145 mA

Environmental

Relative Humidity:	Up to 98 ± 2%, non-condensing
Temperature (Operating):	-31°F to +150°F (-35°C to +66°C)

Mechanical

Dimensions (H x W x D):	5.125 in. x 5.125 in. x 4.375 in. (13 cm x 13 cm x 11.1 cm)
Material:	Molded plastic enclosure with a Xenon flashtube and Lexan lens

Sound Output Ratings (Reverberant dBA at 10 ft [3 m])

Continuous Horn:	High dBA: 92 dBA Standard dBA: 86 dBA
Bell:	High dBA: 84 dBA Standard dBA: 78 dBA
March Time Horn:	High dBA: 88 dBA Standard dBA: 82 dBA
Temporal (Code 3) Horn:	High dBA: 88 dBA Standard dBA: 81 dBA
Temporal (Code 3) Tone:	High dBA: 84 dBA Standard dBA: 78 dBA
Slow Whoop	High dBA: 88 dBA Standard dBA: 83 dBA
Siren	High dBA: 89 dBA Standard dBA: 83 dBA
Hi-Lo	High dBA: 86 dBA Standard dBA: 81 dBA
Vibrating Chime	High dBA: 78 dBA Standard dBA: 71 dBA

ℹ️ **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

AMT-241575W-FR Multitone, Fixed-candela Electronic Appliance-Strobe (red)

This red, wall mount electronic appliance has the text FIRE in white letters along the side and is for use in suppression releasing systems, combination security and emergency evacuation systems, and high risk installations.
Order number **AMT-241575W-FR**

AMT-241575W-FW Multitone, Fixed-candela Electronic Appliance-Strobe (white)

This white, wall mount electronic appliance has the text FIRE in red letters along the side and is for use in suppression releasing systems, combination security and emergency evacuation systems, and high risk installations
Order number **AMT-241575W-FW**

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
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**