


BOSCH

Invented for life

AMT-12/24 Series Multitone Electronic Appliances



- ▶ 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
- ▶ Selectable voltage input (12 VDC or 24 VDC)
- ▶ Voltage inputs polarized for use with reverse polarity supervision systems
- ▶ Low cost indoor or outdoor installation with specified electrical boxes

These Wheelock Multitone Electronic Appliances provide 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 12 VDC or 24 VDC, filtered or FWR. They are listed for indoor or outdoor use with the specified back boxes.

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

Priority 1

- 7 Bell
- 8 Code 3 Tone*

Priority 2

- March Time Horn
- Hi-Lo

Priority 3

- Siren
- 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.

Note

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

Input Voltage and Sound Output Settings

The input voltage (12 VDC or 24 VDC) and the sound output (high dBA or standard dBA) are set with a jumper plug and a DIP switch.

Certifications and Approvals

Cooper Wheelock, Inc. holds these Listings and Approvals:

Region	Certification	
USA	UL	UCST: Audible Signal Appliances, General Signal (UL464), ULSZ: Audible Signal Appliances (UL464)
	CSFM	7135-0785: 127
Canada	ULC	ULSZC: Audible Signal Appliances and Accessories, Fire Alarm
USA	NYC/MEA	151-92-E, Vol. 12
	CBFP	City of Chicago Bureau of Fire Protection
	ANSI	Complies with American National Standards Institute
	FCC	Complies with Federal Communications Commission FCC Part 15, Class B
	NFPA	Complies with National Fire Protection Association
	OSHA	Complies with Occupational Safety and Health Administration OSHA 29 Part 1910.165

Installation/Configuration Notes

Compatible Products

The following products are compatible with the AMT-12/24 Horns:

Category	Product ID	Product Description
Control Panels	D9412GV2 ¹	Control Panel
	D7412GV2 ¹	Control Panel
	D7212GV2 ¹	Control Panel
	D9412G ¹	Control Panel
	D7412G ¹	Control Panel
	D7212G ¹	Control Panel
	DS7400XiV4 ¹	Control Panel
	DS7400Xi ¹	Control Panel
	DS7200 Series ¹	Control Panels
	DS7080iP-32 ¹	Control Panel
	DS7060 Series ¹	Control Panels
	6000 Series ¹	Control Panels
	2000 Series ¹	Control Panels
	D7022 ²	Conventional FACP
	D7024 ³	Addressable FACP
	D7024	Conventional FACP
	D8024 ⁴	Analog FACP
	D9124 ⁴	Addressable FACP
	D10024A ⁴	Analog FACP
Modules	SM-12/24-R	Synchronization module (red)
	DSM-12/24-R	Dual synchronization module (red)

Category	Product ID	Product Description
	RSSP-121575W-FR	Fixed-candela retrofit strobe plate (12 V)
	RSSP-241575W-FR	Fixed-candela retrofit strobe plate (24 V)
	RSSP-24MCW-FR	Multi-candela retrofit strobe plate (24 V)
	RSSP-24MCWH-FR	High-candela retrofit strobe plate (24 V)

¹ For synchronization, use the SM or DSM modules with these control panels and set the horns and synchronization module for 12 VDC operation.

² The D7022 can be used in either 12 VDC or 24 VDC mode, but the horns and synchronization module must be set for the same operating voltage as the control panel.

³ When used with a D7039 Multiplex Expansion Module, the D7024 becomes an addressable fire alarm control panel (FACP).

⁴ For synchronization, use the SM or DSM modules with these control panels and set the horns and synchronization module for 24 VDC operation.

Note The retrofit strobe plates are available in 12 V or 24 V models. Choose a model with the correct voltage for the control panel being used. Refer to *Use as Combination Appliance*.

Mounting Considerations

Mount these horns 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 horn and the back box.

Retrofit Applications

Where an oversize electrical box is already installed, the AMT Horn 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.

Use as Combination Appliance

Where combination appliances are required, the AMT Multitone Appliances can be used with the RSSP-121575W-FR (12 V, 15/75 cd), RSSP-241575W-FR (24 V, 15/75 cd), RSSP-24MCW-FR (24 V, 15 cd, 30 cd, 75 cd, or 110 cd), or RSSP-24MCWH-FR (24 V, 135 cd or 185 cd) Retrofit Strobe Plates that are designed to meet or exceed the latest requirements of NFPA 72, ANSI 117.0 and

UL 1971. The multitone appliances and retrofit strobe plates are also compatible with the SBL2-R Retrofit Device Back Box.

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

Note 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 (1.2 mm) and 12 AWG (2.3 mm).

Parts Included

Quant.	Component
1	Horn
1	Hardware pack
1	Literature pack

Technical Specifications

Environmental Considerations

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

Mechanical Properties

Material:	Molded plastic enclosure
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Power Requirements (12 VDC or FWR nominal)

Current (maximum):

ContinuousHorn:	High dBA: 210 mA (VDC), 230 mA (FWR) Standard dBA: 58 mA (VDC), 103 mA (FWR)
Bell:	High dBA: 117 mA (VDC), 150 mA (FWR) Standard dBA: 31 mA (VDC), 57 mA (FWR)
March Time Horn:	High dBA: 210 mA (VDC), 229 mA (FWR) Standard dBA: 59 mA (VDC), 91 mA (FWR)
Temporal Horn (Code 3):	High dBA: 210 mA (VDC), 241 mA (FWR) Standard dBA: 57 mA (VDC), 93 mA (FWR)
Temporal Tone (Code 3):	High dBA: 168 mA (VDC), 216 mA (FWR) Standard dBA: 62 mA (VDC), 100 mA (FWR)

Current (maximum):

Slow Whoop	High dBA: 182 mA (VDC), 212 mA (FWR) Standard dBA: 56 mA (VDC), 110 mA (FWR)
Siren	High dBA: 177 mA (VDC), 197 mA (FWR) Standard dBA: 55 mA (VDC), 107 mA (FWR)
Hi-Lo	High dBA: 131 mA (VDC), 186 mA (FWR) Standard dBA: 28 mA (VDC), 88 mA (FWR)
Vibrating Chime	High dBA: 90 mA (VDC), 108 mA (FWR) Standard dBA: 28 mA (VDC), 42 mA (FWR)

Power Requirements (24 VDC or FWR nominal)

Current (maximum) VDC:

ContinuousHorn:	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)

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

Note 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.

Ordering Information

AMT-12/24-R Multitone Electronic Appliance (red) **AMT-12/24-R**

Use in suppression releasing systems, combination security and emergency evacuation systems, and high risk installations

AMT-12/24-W Multitone Electronic Appliance (white) **AMT-12/24-W**

Use in suppression releasing systems, combination security and emergency evacuation systems, and high risk installations

Accessories

DBB-R Steel Back Box (red) **DBB-R**

8.6 cm (3.375 in.) square, 5.6 cm (2.1875 in.) deep

IOB-R Indoor or Outdoor Back Box (red) **IOB-R**

13.3 cm (5.25 in.) square, 6.7 cm (2.625 in.) deep

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

13.3 cm (5.25 in.) square, 3 cm (1.1875 in.) deep

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

13.3 cm (5.25 in.) square, 3 cm (1.1875 in.) deep

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

20.3 cm (8 in.) high, 14.9 cm (5.875 in.) wide

SBB-R Surface-mount Back Box (red) **SBB-R**

14 cm (5.5 in.) x 14.2 cm (5.6 in.) x 9.1 cm (3.6 in.)

SBB-W Surface-mount Back Box (white) **SBB-W**

14 cm (5.5 in.) x 14.2 cm (5.6 in.) x 9.1 cm (3.6 in.)

SFP-R Semi-flush Plate (red) **SFP-R**

15.2 cm (6 in.) square by 0.8 cm (0.3125 in.) thick

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