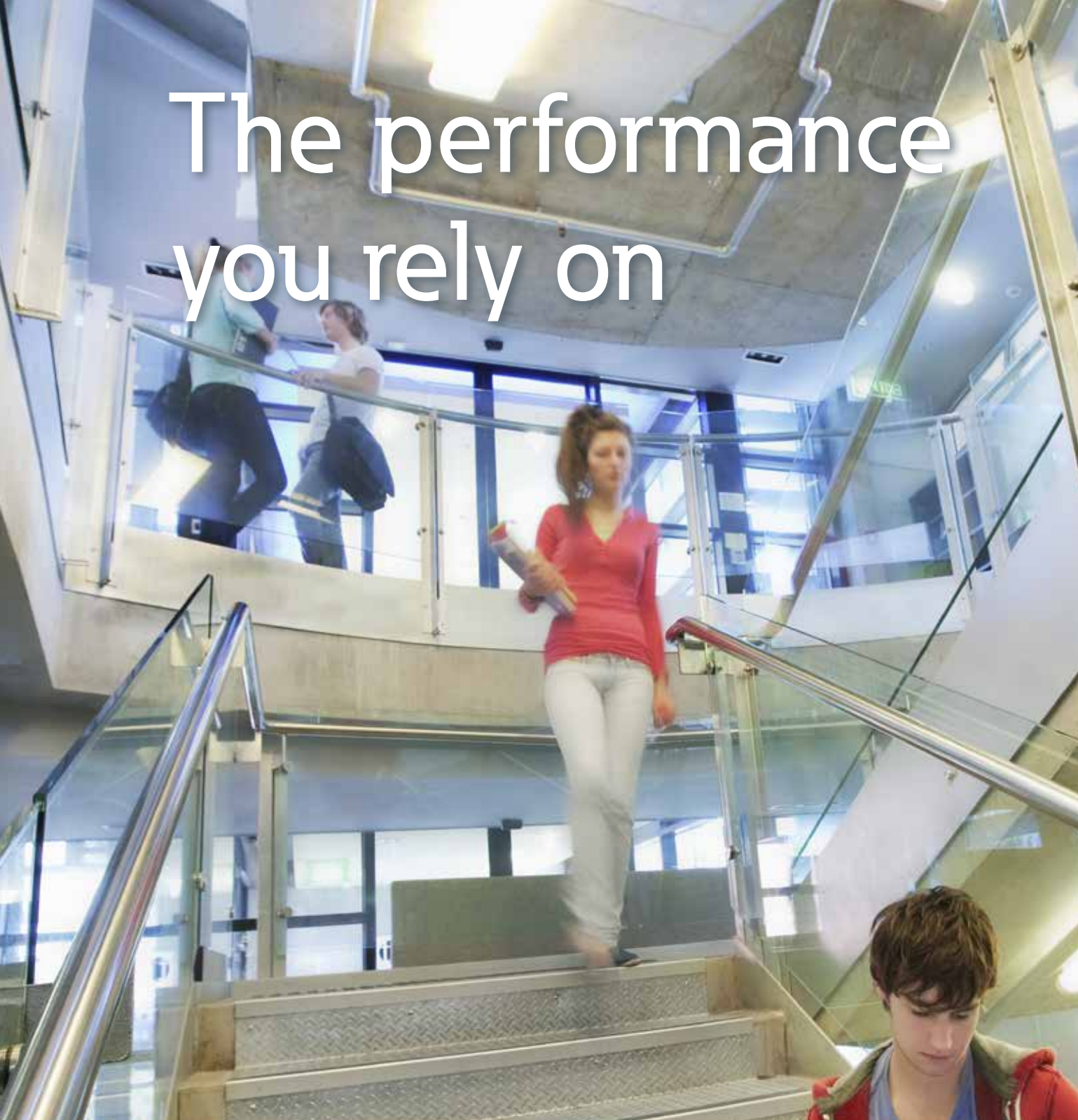


Protect. Alert. Inform.



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The performance you rely on



Powering Business Worldwide

When it comes to protecting life and property, there's no room for compromise. The leading life safety and mass notification solutions from Eaton's portfolio of technologies are designed to save lives. In the most demanding industrial, residential and commercial environments, Eaton delivers top performance with the expertise, reliability and scalability that your business requires.

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More solutions.
Expect more.**

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Expertise built on experience

Eaton is the industry's foremost developer in advanced technological solutions for fire, life safety and mass notification. For nearly a century, its Wheelock products have stood for innovation, service and expertise. A trusted product line with proven experience, Wheelock offers industry-first, patented technology for the largest range of audible and visual notification appliances. Eaton continues to deliver on our commitment to provide customers with innovative product solutions, exceptional value and outstanding service.

Eaton

Life safety & mass notification solutions

273 Branchport Avenue

Long Branch, NJ 07740

P: (800) 631-2148 F: (732) 222-8707

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This Product Catalog contains concise information on Eaton's portfolio of products for use in Life Safety applications.

For more information, including detailed specification and instruction sheets, visit our website: www.coopernotification.com.

Contact Information:

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Technical Support: 1-800-631-2148, Option 3

Marketing Support: 1-800-631-2148, Option 7

Literature Requests: lrequest@eaton.com



Life Safety Notification

Eaton has been an industry leader for nearly a century offering the broadest line of life safety notification appliances and accessories to meet your needs while complying with the latest codes and standards such as UL and NFPA.

- Audible/Visual Appliances
- Sync Modules
- Accessories

Introducing the Exceder LED product range

Industry's first LED notification appliances
providing the industry's lowest current draw

The Wheelock Exceder™ product line expands to include the industry's first LED notification appliances with one of the smallest, most compact designs in the world. Eaton's LED technology provides the industry's lowest current draw, allowing for a greater number of appliances on the NAC and fewer power supplies. Ideal for green buildings, it incorporates a breakthrough optical design, resulting in best-in-class efficiency that provides material and system cost savings.

The Wheelock Exceder LED product line includes horn strobes, strobes, horns, speaker strobes, speakers, and low frequency sounder strobes and sounders.

Energy efficient & environmentally friendly

- Patented LED technology provides lowest current draw in the industry
- Fewer power supplies required, smaller wire gauge, reduced wire runs

Low profile design

- One of the smallest, most compact designs
- Sleek, modern aesthetics

Exceder LED low frequency sounders

First in the industry to meet NFPA's fire alarm and Carbon Monoxide (CO) latest code requirements for sleeping areas.



With the Exceder LED low frequency sounder line, organizations can now meet both sleeping room codes—NFPA 72 and NFPA 720—with one device, which features two different sound patterns, T3 for fire detection and T4 for CO. The low frequency sounders can replace a facility's existing appliances, utilizing the same single pair of wires that are currently installed, offering a simple retrofit to meet new codes for sleeping rooms.

The Exceder LED low frequency sounders and sounder strobes feature multiple 520 Hz modes of operation: T3, T4, Continuous, and T3/T4. When the device is set to T3/T4, the appliance can switch from T3 to T4 based upon the condition sensed by the fire alarm control panel.

Like the entire Wheelock Exceder LED product line, the models feature one of the industry's smallest footprints and a sleek, modern, low-profile design.

Meets 520 Hz sounder codes for sleeping areas

- NFPA 72 for fire alarm signaling
- NFPA 720 for CO alarm signaling

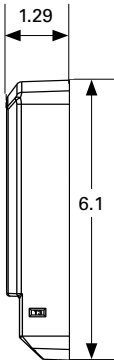
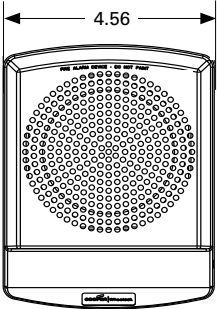
4 Settings in 1 device

- T3 (fire)
- T4 (CO)
- Continuous (coded)
- T3/T4

Approvals and compliance

- UL 2034, UL 2075, UL 1971, UL 464
- ULC S525, ULC S526
- ADA/NFPA/ANSI/OSHA

Wall Sounders



Wall Mount Horns

Model Number	Finish	Lettering
LLFHN-R-AL	Red	ALERT
LLFHN-W-AL	White	ALERT
LLFHN-R-CO	Red	CO
LLFHN-W-CO	White	CO
LLFHN-R-N	Red	No Lettering
LLFHN-W-N	White	No Lettering

Mounting Options: NN

Series **Exceder LED** Low Frequency Sounders

Available features and options:

- Meets both NFPA 72 and 720 low frequency sounder requirements for sleeping areas
- One device includes 2 sound patterns: T3 (fire) and T4 (CO)
- Multiple 520Hz modes of operations

Finish Color: Red or White

Mounting: Wall

Voltage: 24 VDC

Backbox Mounting Options: Exceder LSPKBB backboxes and 4" square backboxes

Approvals: UL, ULC

Sounder Only Current Draw

		UL/ULC Max Current
		24VDC
Model	Horn Settings	16.0-33.0
LLFHN	Continuous	0.113
	Code 3	0.113
	Code 4	0.113
	Code 3/Code 4	0.113

Sound Output (SPL) - UL

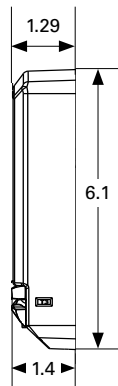
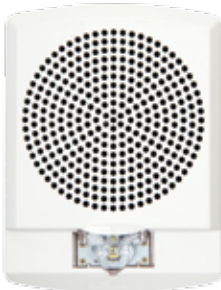
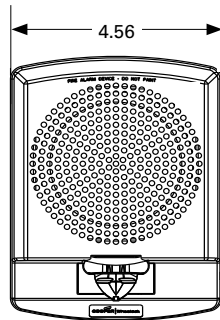
		Reverberant dBA per UL 464	
LLFHN 24V			
Description	16.0V	24.0V	33.0V
Continuous	80	80	80
Code 3	76	76	76
Code 4	85	85	85
Code 3/Code 4	76	76	76

Sound Output (SPL) - ULC

		dBA per ULC S525-07	
LLFHN			
Description	16.0V	24.0V	33.0V
Continuous	80	80	80
Code 3	80	80	80
Code 4	80	80	80
Code 3/Code 4	80	80	80

Note: Reference pages 38-45 for additional mounting information.

Wall Sounder Strobes



Wall Mount Sounder Strobes

Model Number	Finish	Lettering
LLFHSR	Red	FIRE
LLFHSW	White	FIRE
LLFHSR-AL	Red	ALERT
LLFHSW-AL	White	ALERT
LLFHSR-CO	Red	CO
LLFHSW-CO	White	CO
LLFHSR-N	Red	No Lettering
LLFHSW-N	White	No Lettering

Mounting Options: NN

Series Exceder LED Low Frequency Sounder Strobes

Available features and options:

- Meets both NFPA 72 and 720 low frequency sounder requirements for sleeping areas
- One device includes 2 sound patterns: T3 (fire) and T4 (CO)
- Multiple 520Hz modes of operations

Finish Color: Red or White

Mounting: Wall

Candela: 110

Voltage: 24 VDC

Backbox Mounting Options: Exceder LSPKBB backboxes and 4" square backboxes

Approvals: UL, ULC

Wall Mount Sounder Strobes

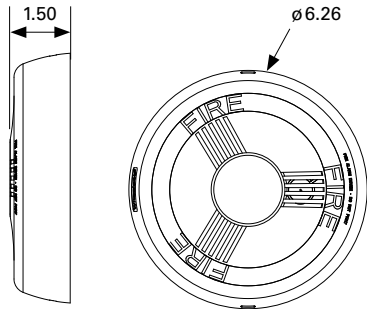
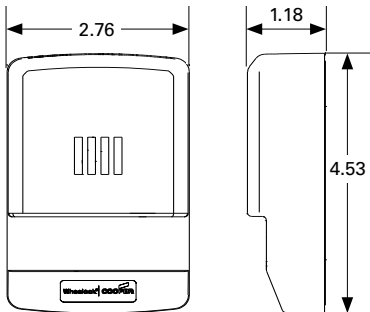
		UL/ULC Max Current
		24VDC
Model	Horn Settings	16.0-33.0
LLFHS	Continuous	0.292
	Code 3	0.292
	Code 4	0.292
	Code 3/Code 4	0.292

LLFHS 24V			
Description	16.0V	24.0V	33.0V
Continuous	80	80	80
Code 3	76	76	76
Code 4	85	85	85
Code 3/Code 4	76	76	76

LLFHS			
Description	16.0V	24.0V	33.0V
Continuous	80	80	80
Code 3	80	80	80
Code 4	80	80	80
Code 3/Code 4	80	80	80

Note: Reference pages 38-45 for additional mounting information.

Wall and Ceiling Horns



Wall Mount Horns

Model Number	Finish
LHNR	Red
LHNW	White

Mounting Options: KK, LL

Ceiling Mount Horns

Model Number	Finish
LHNRC	Red
LHNWC	White

Mounting Options: OO

See page 18 for specification information on LED Strobe models.

Series Exceder LED Wall and Ceiling Horns

Available features and options:

- Superior sound penetration for various ambient and room conditions
- 8 Alerting sounds
- 2 Selectable sound outputs

Finish Color: Red or White

Mounting: Wall or Ceiling

dBA Rating: 90 or 95

Voltage: 12/24 VDC

Backbox Mounting Options:

- Wall: Exceder LSBB, any single-gang backbox and to 4" square with adapter kit
- Ceiling: Exceder LSPKBB-C backboxes, 4" square (1-1/2" or 2-1/8" deep) and 4" octagonal (1-1/2" or 2-1/8" deep)

Approvals: UL, ULC, CSFM, FM

Horn Ratings per UL Anechoic

Model	Regulated Voltage Range VDC	95 dB	90 dB
LHN	16.0-33.0	0.030	0.022
LHNC	16.0-33.0	0.037	0.026
LHN	8.0-17.5	0.024	0.018
LHNC	8.0-17.5	0.025	0.020

Note: Reference pages 38-45 for additional mounting information.

Wall and Ceiling Horn Strobes



Series Exceder LED Wall and Ceiling Horn Strobes

Available features and options:

- Superior sound penetration for various ambient and room conditions
- 8 Alerting sounds
- 2 Selectable sound outputs
- 4 Selectable candela settings

Finish Color: Red or White

Mounting: Wall or Ceiling

dB Rating: 90, 95

Voltage: 24 VDC

Strobe Candela:

- Wall: 15/30/75/110
- Ceiling: 15/30/75/95

Backbox Mounting Options:

- Wall: Exceder LSBB, any single-gang backbox and to 4" square with adapter kit
- Ceiling: Exceder LSPKBB-C backboxes, 4" square (1-1/2" or 2-1/8" deep) and 4" octagonal (1-1/2" or 2-1/8" deep)

Approvals: UL, ULC, CSFM, FM

Wall Mount Horn Strobes

Model Number	Finish
LHSR	Red
LHSW	White

Mounting Options: KK, LL

Ceiling Mount Horn Strobes

Model Number	Finish
LHSRC	Red
LHSWC	White

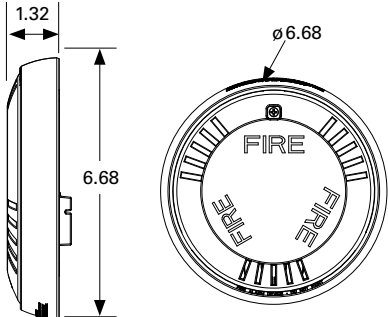
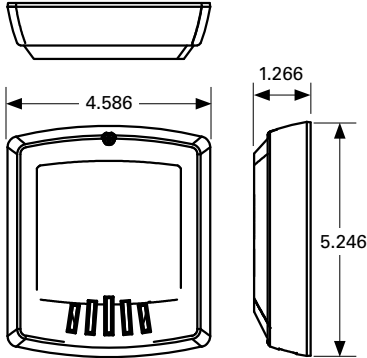
Mounting Options: OO

Horn Strobe Ratings per UL 1971 & Anechoic at 24 VDC

Model Number	Regulated Voltage Range VDC	24 VDC				
		15	30	75	95	110
UL Max Current at 95 dBA						
LHS	16.0-33.0	0.040	0.046	0.125	—	0.219
LHSC	8.0-33.0	0.049	0.063	0.174	0.273	—
UL Max Current at 90 dBA						
LHS	16.0-33.0	0.038	0.042	0.122	—	0.209
LHSC	8.0-33.0	0.042	0.062	0.170	0.270	—

Note: Reference pages 38-45 for additional mounting information.

Wall and Ceiling Horns



Wall Mount Horns

Model Number	Finish
HNR	Red
HNW	White

Mounting Options: II

Ceiling Mount Horns

Model Number	Finish
HNRC	Red
HNWC	White

Mounting Options: JJ

Series **Exceder** Wall and Ceiling Horns

Available features and options:

- Superior sound penetration for various ambient and room conditions
- 3 Selectable sound outputs

Finish Color: Red or White

Mounting: Wall

Voltage: 12 or 24 VDC, 120 VAC

dBA Rating: 90, 95, 99

Backbox Mounting Options: 1 gang, 2 gang, 4" sq., 3.5" octal. Exceder ESB (wall) and ESBC (ceiling) backboxes

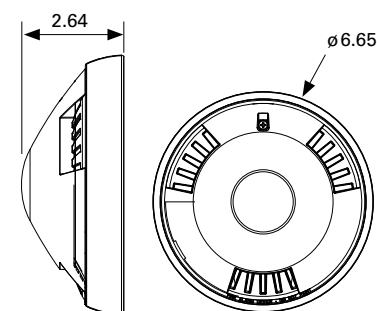
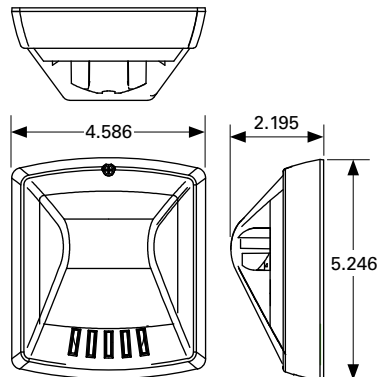
Approvals: UL, ULC, FM, CSFM

Horn Ratings per UL Anechoic

Model	Regulated Voltage Range VDC	99 dB	95 dB	90 dB
HN	16.0-33.0	0.064	0.044	0.022
HNC	16.0-33.0	0.084	0.044	0.022
HN	8.0-17.5	0.047	0.026	0.017
HNC	8.0-17.5	0.047	0.026	0.017

Note: Reference pages 38-45 for additional mounting information.

Wall and Ceiling Horn Strobes



Series Exceder Wall and Ceiling Horn Strobes

Available features and options:

- Superior sound penetration for various ambient and room conditions
- 3 Selectable sound outputs
- 8 candela settings

Finish Color: Red or White

Mounting: Wall or Ceiling

dBA Rating: 90, 95, 99

Voltage: Selectable 12/24 VDC

Strobe Candela:

- Selectable Wall: 15/1575/30/75/95/110/135/185
- Ceiling: 15/30/60/75/95/115/150/177

Backbox Mounting Options: 1 gang, 2 gang, 4" sq., 3.5" octal.
Exceder ESB (wall) and ESBC (ceiling) backboxes

Approvals: UL, ULC, FM, CSFM

Wall Mount Horn Strobes

Model Number	Finish
HSR	Red
HSW	White

Mounting Options: II

Ceiling Mount Horn Strobes

Model Number	Finish
HSRC	Red
HSWC	White

Mounting Options: JJ

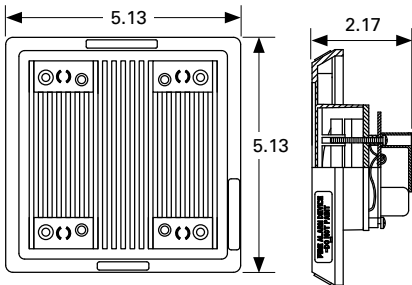
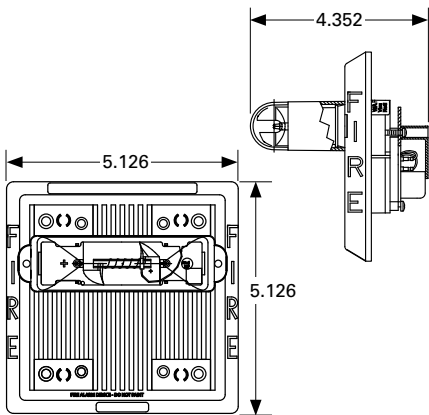
Horn Strobe Ratings per UL 1971 & Anechoic at 24 VDC

Model Number	Regulated Voltage Range VDC	24 VDC												12 VDC	
		15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
UL Max Current at 99 dBA															
HS	8.0-33.0	0.082	0.095	0.102	—	0.148	0.176	0.197	—	0.242	—	—	0.282	0.125	0.159
HSC	8.0-33.0	0.082	—	0.102	0.141	0.148	0.176	—	0.197	—	0.242	0.282	—	0.125	—
UL Max Current at 95 dBA															
HS	8.0-33.0	0.073	0.083	0.087	—	0.139	0.163	0.186	—	0.230	—	—	0.272	0.122	0.153
HSC	8.0-33.0	0.073	—	0.087	0.128	0.139	0.163	—	0.186	—	0.230	0.272	—	0.122	—
UL Max Current at 90 dBA															
HS	8.0-33.0	0.065	0.075	0.084	—	0.136	0.157	0.184	—	0.226	—	—	0.267	0.120	0.148
HSC	8.0-33.0	0.065	—	0.084	0.120	0.136	0.157	—	0.184	—	0.226	0.267	—	0.120	—

Note: Reference pages 38-45 for additional mounting information.

Horns & Horn Strobes

Wall & Ceiling Horns and Horn Strobes



Series **HS/HS4** Wall & Ceiling Horns and Horn Strobes

Available features and options:

- 2-4 Wire applications
- Selectable candela

Finish Color: Red or White

Mounting: Wall or Ceiling

dBA Rating: 90, 95, 99

Voltage: 24 VDC

Strobe Candela:

- Wall: 15/30/75/110cd or 135/185cd (multi-candela) or 1575cd (single candela)

Ceiling: 15/30/75/95cd or 115/177cd

Approvals: UL, ULC, MEA, CSFM, FM

Wall Mount Horn Strobes

Model Number	Finish	Order Code
15/30/75/110cd		
HS4-24MCW-FR	Red	3150
HS4-24MCW-FW	White	3151

Mounting Options: D, E, F, L, M, O, P, R

Wall or Ceiling Mount Horns

Model Number	Finish	Order Code
HS-24-R	Red	3152
HS-24-W	White	3153

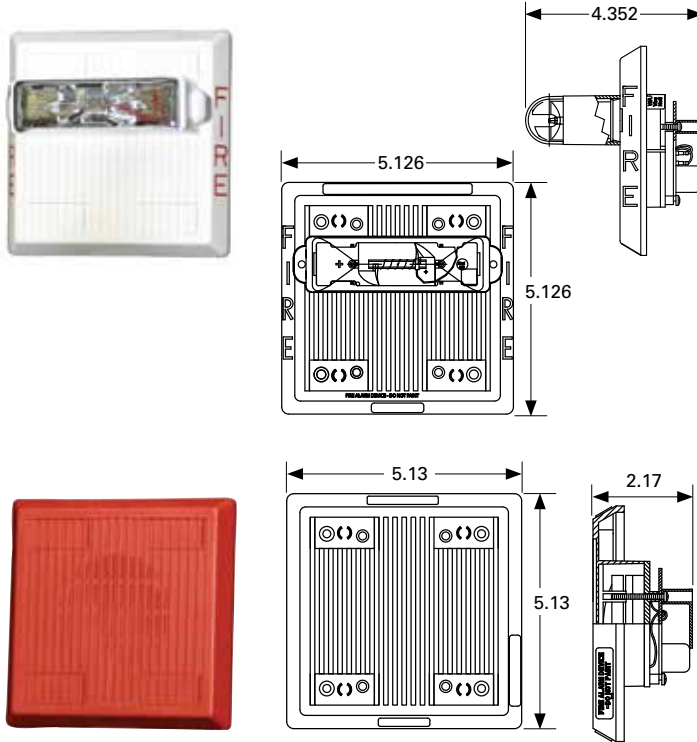
Mounting Options: D, E, F, L, M, O, P, R

UL Max. Strobe Current

Models	16-33 VDC				
	15cd	30cd	75cd	110cd	1575cd
Wall	0.060	0.092	0.165	0.220	0.101

Note: Reference pages 38-45 for additional mounting information.

Multitone and Multitone Strobes



Wall Mount Multitone Strobes

Model	Finish/Ltr	Order Code
15/30/75/110cd		
MT-24MCW-FR	Red	3301
MT-24MCW-FW	White	3302
MT-24MCW-AR	Red, Alarm	3304
MT-24MCW-NW	White, No Ltr	3305
1575cd		
MT-241575W-FW	White	9460
MT-121575W-FR	Red	8421
MT-121575W-FW	White	9461
MT-121575W-NW	White, No Ltr	9747

Mounting Options: D, E, F, J, L, M, N, O, P, R (MT)

Wall or Ceiling Mount Multitones

Model Number	Finish	Order Code
MT-12/24-R	Red	5023
MT-12/24-W	White	5024

Mounting Options: D, E, F, L, M, N, O, P, R

UL Max. Strobe Current

16-33 VDC					
15/75 cd (8-17.5 VDC)	15cd	30cd	75cd	110cd	15/75cd
0.255	0.060	0.092	0.165	0.220	0.090

Series MT Multitone and Multitone Strobes

Available features and options:

- 4 Wire applications
- 8 Selective signals to provide superior sound penetration for various ambient and wall conditions
- 2 Selectable sound outputs

Finish Color: Red or White

Mounting: Wall or Ceiling

Voltage: 12, 24 VDC, 115 VAC (model dependent)

Strobe Candela:

- Wall: 15/30/75/110cd or 135/185cd (multi-candela) or 1575cd (single candela)
- Ceiling: 15/30/75/95cd or 115/177cd

Approvals: UL, MEA, CSFM, FM, ULC

UL Max. Current

	16-33 VDC		8-17.5 VDC		120 VAC	
	HI Out	STD Out	HI Out	STD Out	HI Out	STD Out
Horn	0.108	0.044	0.176	0.034	0.050	0.042
Bell	0.053	0.024	0.095	0.020	0.041	0.039
March Time Horn	0.104	0.038	0.142	0.034	0.050	0.040
Code-3 Horn	0.091	0.035	0.142	0.034	0.050	0.042
Code-3 Tone	0.075	0.035	0.105	0.021	0.042	0.040
Slow Whoop	0.098	0.037	0.142	0.035	0.050	0.042
Siren	0.104	0.036	0.152	0.030	0.045	0.041
Hi/Lo	0.057	0.025	0.114	0.026	0.042	0.039

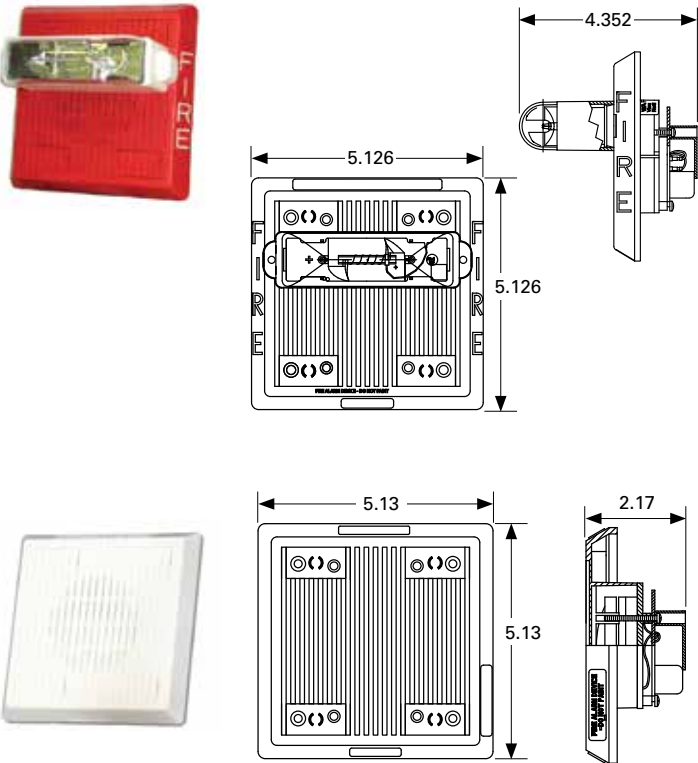
dBA

	dBA @ 10 ft. (UL Reverberant)				dBA @ 10 ft. (anechoic)		dBA @ 10 ft. (UL Reverberant)	
	16-33 VDC		8-17.5 VDC		8-17.5 and 16-33 VDC		120 VAC	
	HI Out	STD Out	HI Out	STD Out	HI Out	STD Out	HI Out	STD Out
Horn	92	87	92	87	99	93	88	82
Bell	86	80	86	80	92	87	82	75
March Time Horn	89	84	89	84	99	93	85	79
Code-3 Horn	88	83	88	83	99	93	85	75
Code-3 Tone	85	80	85	80	95	90	79	75
Slow Whoop	90	85	90	85	99	94	88	82
Siren	89	84	89	84	98	93	85	82
Hi/Lo	86	81	86	81	93	88	82	79

For the Series MTWP and MT-12/24 Weatherproof Appliance, please see pages 28-29.

Note: Reference pages 38-45 for additional mounting information.

Multitone and Multitone Strobes



Series **AMT** Multitone and Multitone Strobes

Available features and options:

- 3 Distinct prioritized audible signals from 3 isolated inputs
- Ideal for combination fire and burglary and suppression systems

Finish Color: Red or White

Mounting: Wall or Ceiling

Voltage: 12/24 or 24 VDC

Strobe Candela: 15/30/75/110cd or 135/185cd or 1575cd (single candela)

Approvals: UL, MEA, CSFM, FM, ULC

Wall Mount Multitone Strobes

Model Number	Finish/Ltr	Order Code
15/30/75/110cd		
AMT-24MCW-FR	Red	3300
AMT-24MCW-FW	White	3302
AMT-24MCW-NW	White, No LTR	5587

Mounting Options: D, E, F, L, M, N, O, P, R

UL Max. Strobe Current

16-33 VDC				
15cd	30cd	75cd	110cd	1575cd
0.060	0.092	0.165	0.220	0.101

Wall or Ceiling Mount Multitones

Model Number	Finish	Order Code
AMT-12/24-R	Red	5887
AMT-12/24-W	White	5893
AMT-12/24-R-NYC	Red	7920

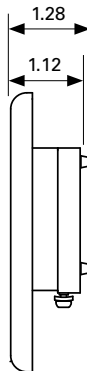
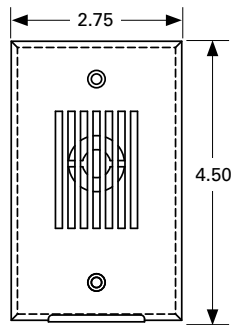
Mounting Options: D, E, F, L, M, N, O, P, R

UL Max. Current

	16-33 VDC		8-17.5 VDC	
	HI Out	STD Out	HI Out	STD Out
Horn	0.108	0.043	0.210	0.058
Bell	0.057	0.026	0.117	0.031
March Time Horn	0.108	0.035	0.210	0.059
Code-3 Horn	0.108	0.043	0.210	0.057
Code-3 Tone	0.060	0.030	0.168	0.052
Slow Whoop	0.112	0.044	0.182	0.056
Siren	0.102	0.038	0.177	0.055
Hi/Lo	0.064	0.030	0.131	0.028
Vibrating Chime	0.041	0.020	0.090	0.028

Note: Reference pages 38-45 for additional mounting information.

Horns



Series MIZ Horns

Available features and options:

- High sound output with low current draw
- Ideal for alarm signaling in individual rooms, apartments, hotels, and offices

Finish Color: Red or White

Mounting: Wall, single-gang boxes

dBA Rating: 78-87, Continuous or Code 3 Output

Voltage: 24 VDC

Approvals: UL, MEA, CSFM, FM, ULC

Wall Mount Mini Horn

Model Number	Finish	Order Code
MIZ-24S-R	Red	8485
MIZ-24S-W	White	8484

Mounting Options: B

UL Max. Current

16-33 VDC

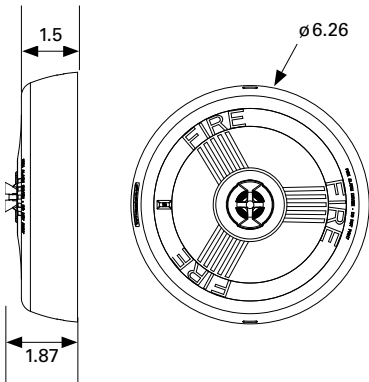
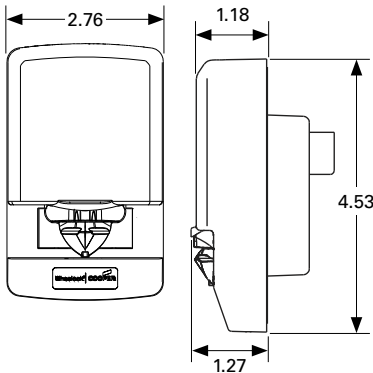
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Horn Strobe Ratings per UL 1971 & Anechoic at 24 VDC

	Reverberant dBA per UL 464 @ 10 ft		Anechoic dBA @ 10 ft	
	Continuous	Code 3	Continuous	Code 3
24 VDC	83	78	87	87

Note: Reference pages 38-45 for additional mounting information.

Wall and Ceiling Strobes



Wall Mount Horn Strobes

Model Number	Finish
LSTR	Red, Clear Lens
LSTW	White, Clear Lens

Mounting Options: KK, LL

Ceiling Mount Horn Strobes

Model Number	Finish
LSTRC	Red
LSTWC	White

Mounting Options: 00

See pages 10 & 11 for specification information on LED Horn & Horn Strobe models.

Series **Exceder LED** Wall and Ceiling Strobes

Available features and options:

- Energy efficient & environmentally friendly
- Low-profile design
- Easy to install

Finish Color: Red or White

Mounting: Wall or Ceiling

Voltage: 24 VDC

Strobe Candela:

- Wall: 15/30/75/110
- Ceiling: 15/30/75/95

Backbox Mounting Options:

- Wall: Exceder LSBB, any single-gang backbox and to 4" square with adapter kit
- Ceiling: Exceder LSPKBB-C backboxes, 4" square (1-1/2" or 2-1/8" deep) and 4" octagonal (1-1/2" or 2-1/8" deep)

Approvals: UL, ULC, CSFM, FM

UL Max. Current

Model	Regulated Voltage Range VDC	24 VDC			
		15cd	30cd	75cd	110cd
LST	16.0-33.0	0.030	0.040	0.115	0.200
LSTC	16.0-33.0	0.040	0.058	0.155	0.258

Note: Reference pages 38-45 for additional mounting information.



Industry's first LED appliances
Lowest current draw in the industry



Features:

• Energy Efficient & Environmentally Friendly

- Patented LED technology provides industry's lowest current draw
- Fewer power supplies required, smaller wire gauge, reduced wire runs

• Low-Profile Design

- One of the smallest, most compact designs
- Sleek, modern aesthetics
- Ceiling and wall models
- No visible mounting screws

• 4 Field Selectable Settings in 1 Device

- Wall: 15/30/75/110
- Ceiling: 15/30/75/95

• Easy-to-Install

- Finger slide switches—no tools needed for setting changes
- Convenient mounting options
- In/out screw terminals for faster installation
- #12 through #18 AWG terminals

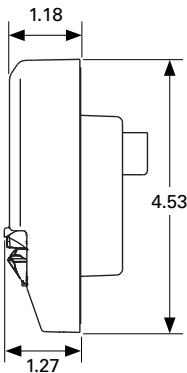
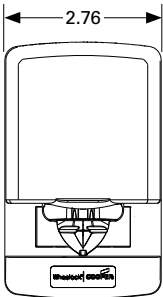
• Strobe Synchronization Components

- Meet stringent synchronizing standards with Wheelock's DSM Sync Modules, PS-6/8 Power Supplies or SAFEPATH family of products

• Compliance

- UL Standards 1971 & 464
- ULC-S525 and ULC-S526
- FCC Part 15
- CSFM
- FM

Wall Amber Lens Strobes



Wall Mount Horn Strobes

Model Number	Finish	Lettering
LSTR-ALA	Red	ALERT
LSTW-ALA	White	ALERT
LSTR-NA	Red	No lettering
LSTW-NA	White	No lettering

Mounting Options: KK, LL

See page 18 for specification information on LED Strobe models.

Series Exceder LED Wall Amber Lens Strobes

Available features and options:

- Energy efficient & environmentally friendly
- Low-profile design
- Easy to install
- Ideal for mass notification and emergency communication applications

Finish Color: Red or White

Lens Color: Amber

Mounting: Wall

Special lettering: ALERT, No Lettering

Voltage: 24 VDC

Strobe Candela:

- Wall: 15/30/75/110

Backbox Mounting Options:

- Wall: Exceder LSBB, any single-gang backbox and to 4" square with adapter kit

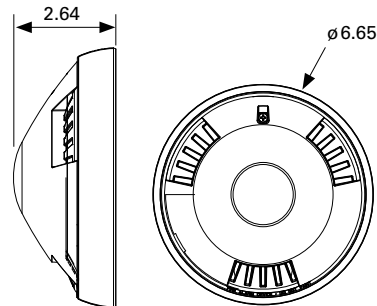
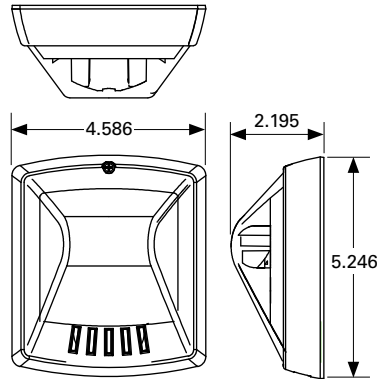
Approvals: UL, ULC, CSFM, FM

UL Max. Current

Model	Regulated Voltage Range VDC	24 VDC			
		15cd	30cd	75cd	110cd
LST	16.0-33.0	0.030	0.040	0.115	0.200

Note: Reference pages 38-45 for additional mounting information.

Wall and Ceiling Strobes



Series Exceder Wall and Ceiling Strobes

Available features and options:

Finish Color: Red or White

Mounting: Wall or Ceiling

Voltage: Selectable 12/24 VDC

Strobe Candela:

- Selectable Wall: 15/1575/30/75/95/110/135/185
- Ceiling: 15/30/60/75/95/115/150/177

Backbox Mounting Options: 1 gang, 2 gang, 4" sq., 3.5" octal. Exceder ESB (wall) and ESBC (ceiling) backboxes

Approvals: UL, ULC, FM, CSFM

Wall or Ceiling Mount Strobes

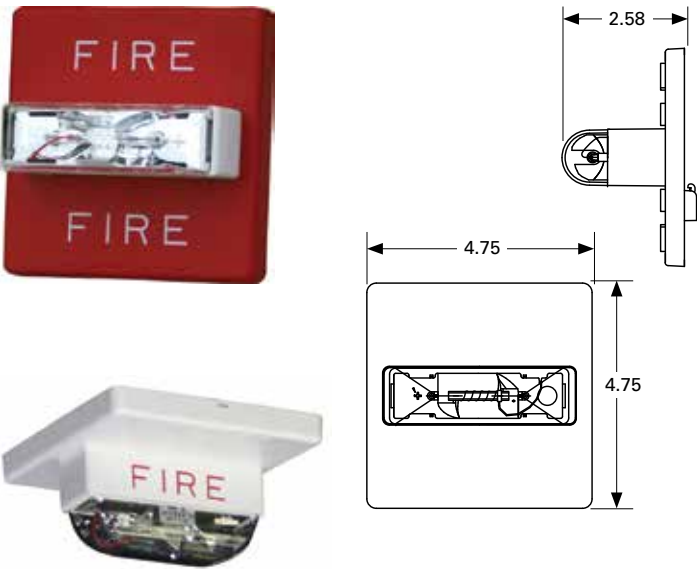
Model Number	Finish
STR	Red
STW	White
STRC	Red
STWC	White

Mounting Options: II (wall), JJ (ceiling)

UL Max. Current

Model Number	Regulated Voltage Range VDC	24 VDC/24 FWR												12 VDC	
		15	19	30	60	75	95	110	115	135	150	177	185	15	15/75
ST	8.0-33.0	0.057	0.070	0.085	—	0.135	0.163	0.182	—	0.205	—	—	0.253	0.110	0.140
STC	8.0-33.0	0.061	—	0.085	0.103	0.135	0.163	—	0.182	—	0.205	0.253	—	0.110	—

Wall and Ceiling Strobes



Series **RSS** Wall and Ceiling Strobes

Available features and options:

Finish Color: Red or White

Mounting: Wall or Ceiling

Voltage: 24 VDC

Strobe Candela:

- Wall: 15/30/75/110cd or 135/185 cd (multi-candela models) or 15/75cd (single candela models)
- Ceiling: 15/30/75/95cd or 115/177cd

Backbox Mounting Options: 1 gang, 2 gang, 4" sq., 3.5" octal

Approvals: UL, ULC, CSFM, FM, BFP

Wall Mount Strobes

Model Number	Finish/Ltr	Order Code
15/30/75/110cd		
RSS-24MCW-FR	Red	9400
RSS-24MCW-FW	White	9401
RSS-24MCW-NR	Red, No Ltr	3190
RSS-24MCW-NW	White, No Ltr	8219
RSS-24MCW-ALR	Red, Alert Ltr	4840
RSS-24MCW-ALW	White, Alert Ltr	5842
RSS-24MCW-AR	Red, Agent Ltr	9773

Mounting Options: B, D, E, F, G, H, J, N, O, P, R, X

UL Max. Current

Model	16-33 VDC			
	15cd	30cd	75cd	110cd
RSS-Wall	0.060	0.092	0.165	0.220

UL Max. Strobe Current

Model	16-33 VDC					
	15cd	30cd	75cd	95cd	115cd	177cd
RSS-Ceiling	0.065	0.105	0.189	0.249	0.300	0.420

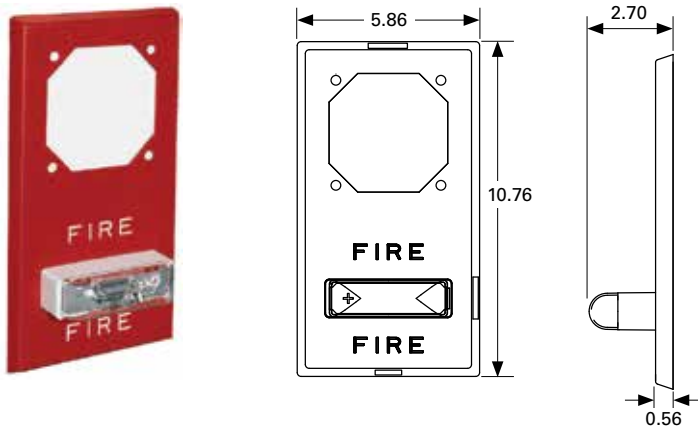
Ceiling Mount Strobes

Model Number	Finish	Order Code
15/30/75/95cd		
RSS-24MCC-FR	Red	3157
RSS-24MCC-FW	White	3158
RSS-24MCC-NW	White, No Ltr	3183
RSS-24MCC-ALW	White, Alert Ltr	4004
115/177cd		
RSS-24MCCH-FR	Red	3460
RSS-24MCCH-FW	White	3461

Mounting Options: B, D, E, F, G, H, J, N, O, P, R, X

Note: Reference pages 58-65 for additional mounting information.

Strobe Plates



Series **RSSP** Strobe Plates

Available features and options:

- Designed for retrofitting existing audible appliances to strobe applications

Finish Color: Red or White

Mounting: Wall

Strobe Candela: 15/30/75/95/110, 15/75 or 135/185

Approvals: UL, MEA, CSFM, FM, BFP, ULC

Strobe Plates

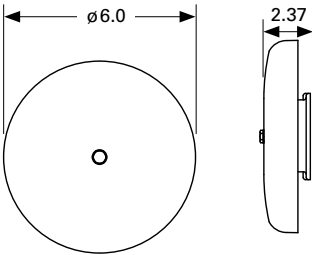
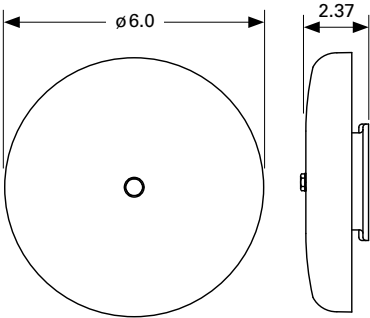
Model Number	Finish	Order Code
15/30/75/110cd		
RSSP-24MCW-FR	Red	9402
RSSP-24MCW-FW	White	9403
RSSP-24MCW-NR	Red	3795
RSSP-24MCW-NW	White	3188

UL Max. Current

Model	16-33 VDC			
	15cd	30cd	75cd	110cd
RSS - Wall	0.060	0.092	0.165	0.220

Note: Reference pages 38-45 for additional mounting information.

Bells



Series 43T Vibrating AC Bells

Available features and options:

- Aluminum bell housing
- Screw terminal connections
- Integral RFI suppression minimizes induced noise on alarm lines
- Semi-flush or surface mounting to standard 4” square backboxes

Finish Color: Red or Gray

Mounting: Wall

Sell Size: 6” and 10”

Input Voltage: 24 or 115 VAC

dBA @ 10 Feet: 85

Input Current: 0.0410 (24 VAC), 0.085 (115 VAC)

Applications: Indoor or Outdoor (vandal resistant)

Approvals: UL, CSFM, FM, BFP, ULC

Model Number	Finish	Order Code
6” Bells		
43T-G6-24-R	Red	1627
43T-G6-24-S	Gray	1626
43T-G6-115-R	Red	1631
43T-G6-115-S	Gray	1630
10” Bells		
43T-G10-24-R	Red	1647
43T-G10-24-S	Gray	3800
43T-G10-115-R	Red	1651
43T-G10-115-S	Gray	3693

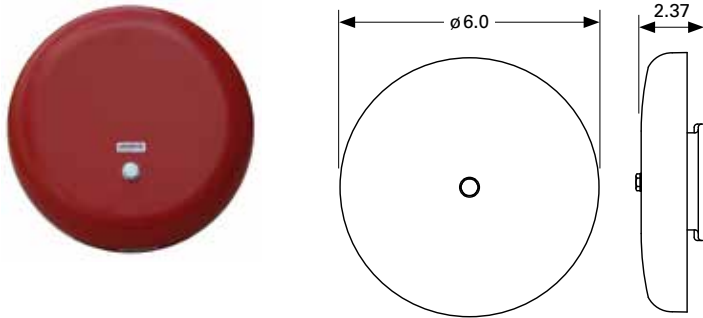
Mounting Options: D, E, J, K, N, O, P, R, S

Input Current

24VAC	115 VAC	dBA @ 10 ft.
0.666	0.117	85

Note: Reference pages 38-45 for additional mounting information.

Motor Bells



Series MB Motor Bells

Available features and options:

- Aluminum bell housing
- Integral RFI suppression minimizes induced noise on alarm lines
- Semi-flush or surface mounting to standard 4" square backboxes

Finish Color: Red or Gray

Mounting: Wall

Sell Size: 6" and 10"

Input Voltage: 12 or 24 VDC

dBA @ 10 Feet: 92

Approvals: UL, MEA, CSFM, FM, BFP, ULC

Model Number	Finish	Order Code
6" Bells		
MB-G6-12-R	Red	3942
MB-G6-12-S	Gray	4221
MB-G6-24-R	Red	3941
MB-G6-24-S	Gray	4222
10" Bells		
MB-G10-12-R	Red	3944
MB-G10-12-S	Gray	4223
MB-G10-24-R	Red	3943
MB-G10-24-S	Gray	4224

Mounting Options: D, E, J, K, N, O, P, R, S

Input Current

16-33 VDC	8-17.5 VDC	dBA @ 10 ft.
0.040	0.090	92

Note: Reference pages 38-45 for additional mounting information.

Exceder LED High Fidelity Speakers and Speaker Strobes



With the widest frequency response range available, our speakers provide crisp, clear voice messages

Clear, concise and intelligible voice messages that communicate how people should respond in an emergency are critical for life safety. At Eaton, we understand that you need a solution that not only meets your customer's intelligibility and reliability requirements but also provides overall system cost savings.

Designed for high fidelity sound output, Wheelock's Exceder LED Speaker Strobes not only feature the widest frequency response range in the industry, but are the first to utilize LED as the light source. With a response range of 300 to 8000 Hz, the LSPK and LSPST models provide leading intelligibility with crisp, clear voice messages, ideal for emergency communications, mass notification, and voice evacuation.

The patented LED technology delivers the industry's lowest current draw. This breakthrough optical design results in best-in-class efficiency that enables material and system cost savings.

The Exceder LED Speaker Strobes and Speakers feature one of the industry's smallest footprints and a sleek, modern, low-profile design that will please building owners. It includes five field-selectable tap settings (1/8 to 2 watts), four field selectable candela settings (LSPST models) and convenient wall- and ceiling-mounting options for both new and retrofit construction. Amber lens speaker strobes (wall models) and special lettering are available.

High fidelity sound output

- Efficient design for high intelligibility at minimum wattage
- Frequency range: 300 to 8000 HZ—widest range in the industry

Energy efficient

- Patented LED technology provides industry's lowest current draw
- Fewer power supplies required, smaller wire gauge, reduced wire runs

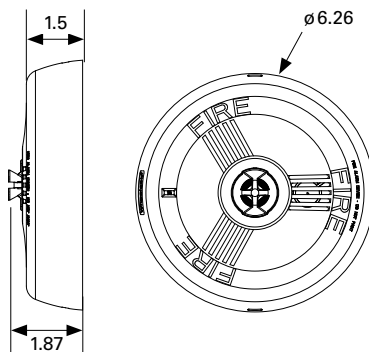
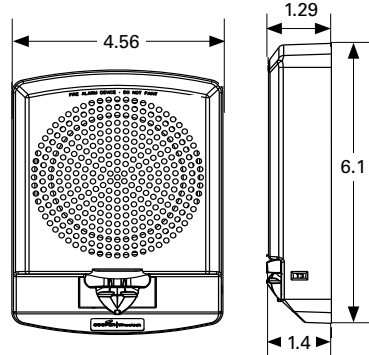
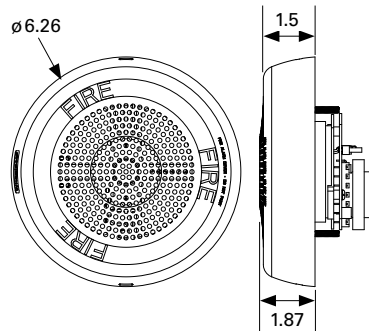
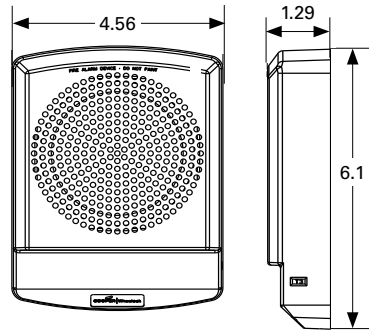
Low-profile design

- One of the smallest footprints with sleek, modern aesthetics

Easy to install

- Finger slide switches—no tools needed for setting changes
- Built-in adjustment feature and snap-on grille
- IN/OUT screw terminals using #12 to #18 AWG wires

Speaker and Speaker Strobes



Series Exceder LED High Fidelity Speakers and Speaker Strobes

Available features and options:

- High fidelity sound output
- High intelligibility with a frequency range—300 to 8000 HZ—widest range in the industry

Finish Color: Red or White

Mounting: Wall or Ceiling

Special Lettering

Input Voltage: Selectable 25/70 VRMS

Selectable Taps: 1/8–2 Watts

Strobe Candela:

- Wall: Selectable 15/30/75/110
- Ceiling: Selectable 15/30/75/95

Backbox Mounting Options:

- Wall: Exceder LSPKBB backboxes and 4" square backboxes
- Ceiling: Exceder LSPKBB-C backboxes, 4" square, 1 1/2 or 2 1/8" deep and 4" Octagonal, 1 1/2" or 2 1/8" deep

Approvals: UL, ULC, CSFM, FM

Wall Mount Speakers

Model Number	Finish
LSPKR	Red
LSPKW	White

Mounting Options: NN

Wall Mount Speaker Strobes

Model Number	Finish
LSPSTR	Red
LSPSTW	White

Mounting Options: NN

Ceiling Mount Speakers

Model Number	Finish
LSPKRC	Red
LSPKWC	White

Mounting Options: 00

Ceiling Mount Speaker Strobes

Model Number	Finish
LSPSTRC	Red
LSPSTWC	White

Mounting Options: 00

UL Max. Current

16-33 VDC				
Model	15cd	30cd	75cd	110cd
LSPST	0.030	0.040	0.115	0.200

UL Max. Current

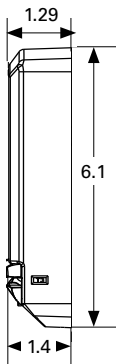
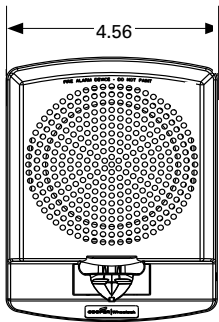
16-33 VDC				
Model	15cd	30cd	75cd	95cd
LSPSTC	0.040	0.58	0.155	0.258

UL Reverberant dBA @ 10 Feet

Model	Watts				
	1/8	1/4	1/2	1	2
LSPK	75	79	79	82	85
LSPST	75	79	79	82	85
LSPSTRC	75	79	82	85	87
LSPSTWC	75	79	82	85	87

Amber Lens Speaker Strobes

Speaker Strobes



Wall Mount Speaker Speakers

Model Number	Finish	Lettering
LSPKR-ALA	Red	ALERT
LSPKW-ALA	White	ALERT
LSPKR-NA	Red	No Lettering
LSPKW-NA	White	No Lettering

Mounting Options: NN

Series Exceder LED High Fidelity Amber Lens Speaker Strobes

Available features and options:

- High fidelity sound output
- High intelligibility with a frequency range—300 to 8000 HZ—widest range in the industry
- Ideal for mass notification applications

Finish Color: Red or White

Mounting: Wall

Amber Lens and Special Lettering

Input Voltage: Selectable 25/70 VRMS

Selectable Taps: 1/8–2 Watts

Strobe Candela:

- Wall: Selectable 15/30/75/110

Backbox Mounting Options:

- Wall: Exceder LSPKBB backboxes and 4” square backboxes

Approvals: UL, ULC, CSFM, FM

UL Max. Current

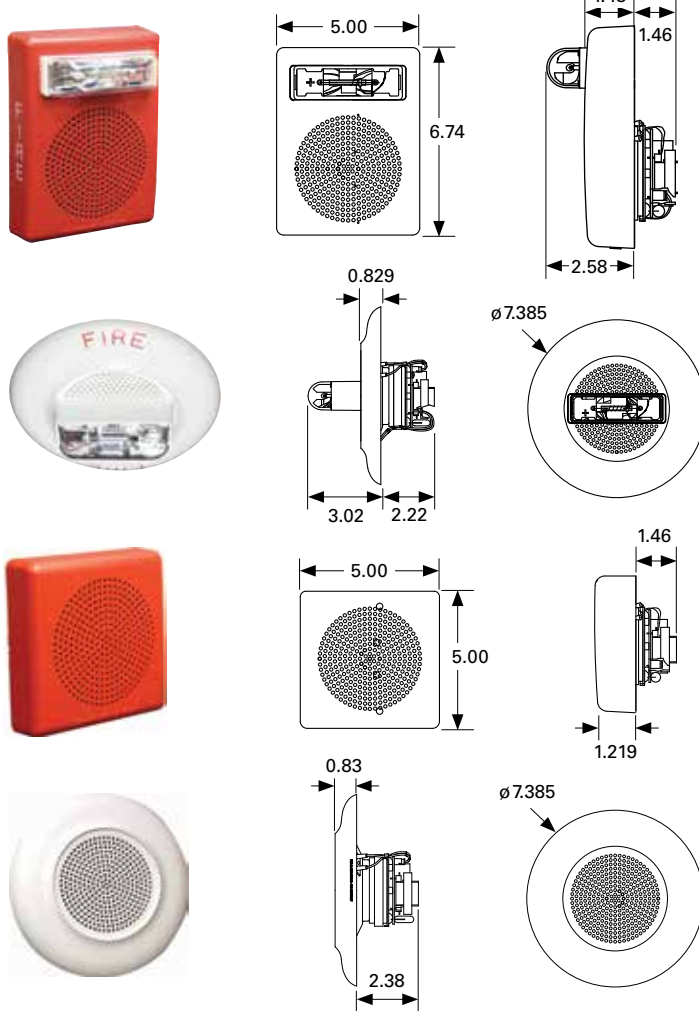
Model	16-33 VDC			
	15cd	30cd	75cd	110cd
LSPST	0.030	0.040	0.115	0.200

UL Reverberant dBA @ 10 Feet

Model	Watts				
	1/8	1/4	1/2	1	2
LSPK	75	79	79	82	85
LSPST	75	79	79	82	85

Note: Reference pages 38-45 for additional mounting information.

Speaker and Speaker Strobes



Model Number	Order Code
Wall Mount Speaker Strobe	
E50H-24MCW-FR	0092
E50H-24MCW-FW	0093
E50H-24MCWH-FR	0094
E50H-24MCWH-FW	0097
Mounting Options: E, BB	
Ceiling Mount Speaker Strobe	
E60H-24MCC-FR	0187
E60H-24MCC-FW	0188
E60H-24MCCH-FR	0189
E60H-24MCCH-FW	0190
Mounting Options: E	
Wall or Ceiling Mount Speaker	
E50H-R	9863
E50H-W	9864
E60H-R	9867
E60H-W	9874
Mounting Options: E, AA (E50 Only)	

Series E50H/E60H High Fidelity Wall and Ceiling Speakers and Speaker Strobes

Available features and options:

- High intelligibility at minimum wattage across a frequency range of 300 to 8000 HZ
- Designed for high efficiency output
- Snap-on grill cover with no visible mounting screws
- Synchronize with Wheelock DSM or Wheelock Power Supplies with built-in sync protocol

Finish Color: Red or White

Mounting: Wall or Ceiling

Input Voltage: Selectable 25/70 VRMS

Selectable Taps: 1/8–2 Watts

Strobe Candela:

- Wall: Selectable 15/30/75/110 or 135/185 or 1575
- Ceiling: Selectable 15/30/75/95 or 115/177

Approvals: UL, ULC, MEA, CSFM, FM, BFP

UL Max. Current

Model	16-33 VDC					
	15cd	30cd	75cd	110cd	135cd	185cd
E50H	0.060	0.092	0.165	0.220	0.300	0.420

UL Max. Current

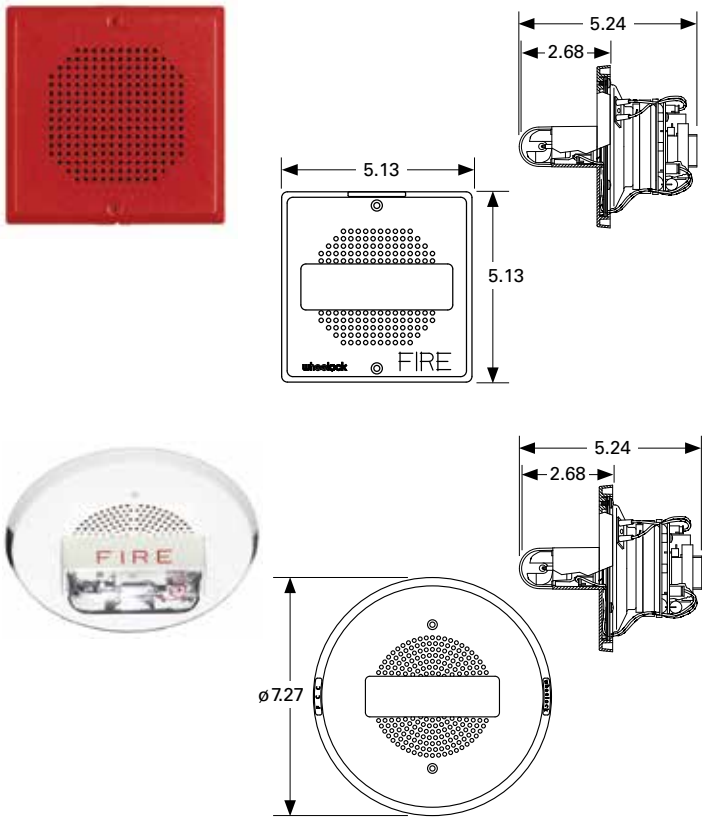
Model	16-33 VDC					
	15cd	30cd	75cd	95cd	115cd	177cd
E60H	0.065	0.105	0.189	0.249	0.300	0.420

UL Reverberant dBA @ 10 Feet

Model	Watts				
	1/8	1/4	1/2	1	2
E50H Speaker	73	76	79	82	84
E50H Speaker Strobe	73	76	79	82	84
E60H Speaker	74	77	80	83	85
E60H Speaker Strobe	74	77	80	82	85

Note: Reference pages 38-45 for additional mounting information.

Speakers & Speaker Strobes



Model Number	Order Code
Wall Mount Speaker Strobe	
E70H-24MCW-FR	0183
E70H-24MCW-FW	0184
E70H-24MCWH-FR	0185
E70H-24MCWH-FW	0186
Mounting Options: P, Q	
Ceiling Mount Speaker Strobe	
E90H-24MCC-FR	0191
E90H-24MCC-FW	0192
E90H-24MCCH-FR	0193
E90H-24MCCH-FW	0194
Mounting Options: P, Q	
Wall or Ceiling Mount Speaker	
E70H-R	9865
E70H-W	9866
E90H-R	9875
E90H-W	9876
Mounting Options: P, Q	

Note: Reference pages 38-45 for additional mounting information.

Series **E70H/E90H** High Fidelity, Low Profile Speakers and Speaker Strobes

Available features and options:

- Replaceable grills
- High intelligibility at minimum wattage across a frequency range of 300 to 8000 HZ
- Designed for high efficiency output
- Standard backboxes
- Strobe synchronization

Finish Color: Red or White

Mounting: Wall or Ceiling

Input Voltage: Selectable 25/70 VRMS

Selectable Taps: 1/8–2 Watts

Strobe Candela:

- Wall: Selectable 15/30/75/110 or 135/185 or 1575
- Ceiling: Selectable 15/30/75/95 or 115/177

Grills: Square or Round, Metal

Approvals: UL, ULC, MEA, CSFM, FM, BFP

UL Max. Current

Model	16-33 VDC					
	15cd	30cd	75cd	110cd	135cd	185cd
E50H	0.060	0.092	0.165	0.220	0.300	0.420

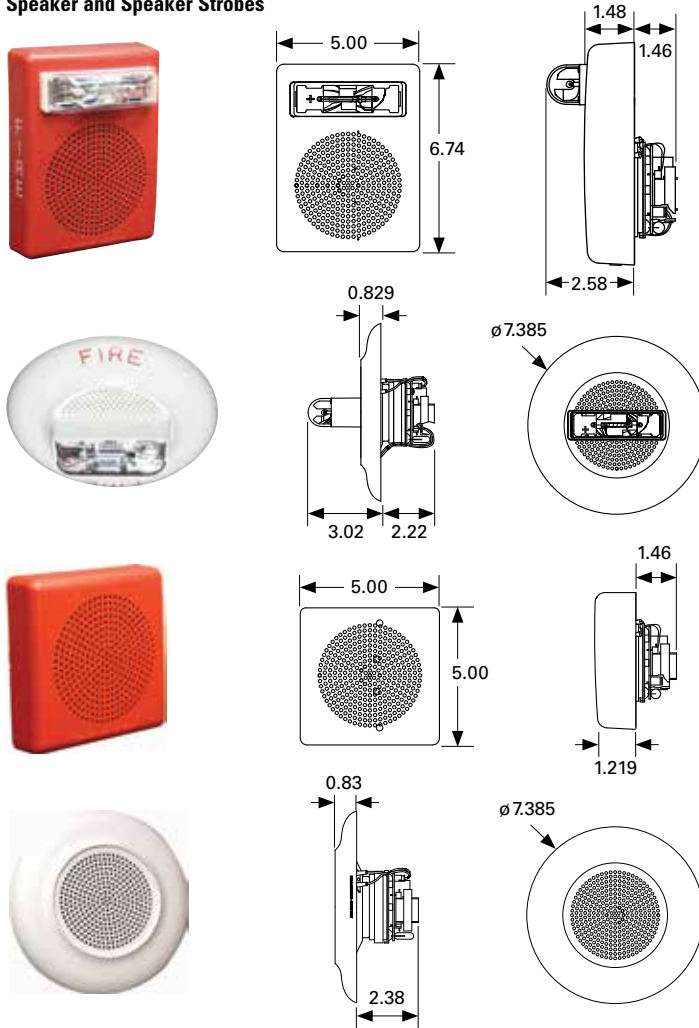
UL Max. Current

Model	16-33 VDC					
	15cd	30cd	75cd	95cd	115cd	177cd
E60H	0.065	0.105	0.189	0.249	0.300	0.420

UL Reverberant dBA @ 10 Feet

Model	Watts				
	1/8	1/4	1/2	1	2
E70H/E90H Speaker	72	75	78	81	82
E70H Speaker Strobe	71	75	78	81	83
E90H Speaker Strobe	74	77	80	82	85

Speaker and Speaker Strobes



Wall Mount Speakers

Model Number	Finish	Order Code
E50-R-ULC	Red	3945
E50-W-ULC	White	3982

Mounting Options: E, AA

Wall Mount Speaker Strobes

Model Number	Finish	Order Code
15/30/75/110cd		
E50-24MCW-FR-ULC	Red	3880
E50-24MCW-FW-ULC	White	3883

Mounting Options: E, BB

UL Max. Current

Model	16-33 VDC			
	15cd	30cd	75cd	110cd
E50	0.060	0.092	0.165	0.220

Series E50/E60 Wall and Ceiling Speakers and Speaker Strobes

Available features and options:

- High efficiency design for maximum output at minimum wattage across a frequency range of 400 to 4000Hz
- Snap-on grill cover with no visible mounting screws
- Synchronize with Wheelock DSM or Wheelock Power Supplies with built-in sync protocol

Finish Color: Red or White

Mounting: Wall or Ceiling

Input Voltage: Selectable 25/70 VRMS

Selectable Taps: 1/8–2 Watts

Strobe Candela:

- Wall: Selectable 15/30/75/110 or 135/185 or 1575
- Ceiling: Selectable 15/30/75/95 or 115/177

Approvals: UL, ULC, MEA, CSFM, FM, BFP

Ceiling Mount Speakers

Model Number	Finish	Order Code
E60-W-ULC	White	4017

Mounting Options: Q, U, V, EE

Ceiling Mount Speaker Strobes

Model Number	Finish	Order Code
15/30/75/95cd		
E60-24MCC-FW-ULC	White	4062

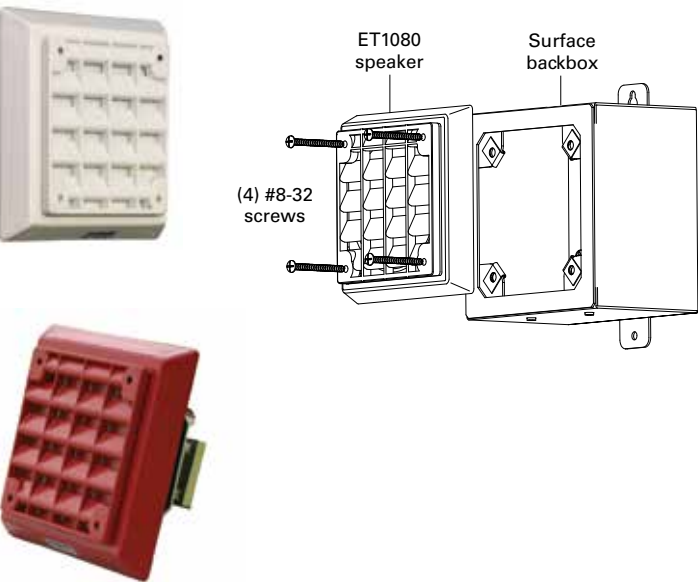
Mounting Options: Q, U, V, EE

UL Max. Current

Model	16-33 VDC			
	15cd	30cd	75cd	95cd
E60	0.065	0.105	0.189	0.249

Note: Reference pages 38-45 for additional mounting information.

Speakers & Speaker Strobes



Series ET1080 Speakers and Speaker Strobes

Available features and options:

- Sealed back speaker
- Fast installation with IN/OUT screw terminals using #12 to #18 AWG wiring
- Vandal resistant die-cast grills
- High efficiency design for maximum output; frequency range of 400–4000Hz

Finish Color: Red or White

Mounting: Flush or surface mounting

Input Voltage: Selectable 25/70 VRMS

Selectable Taps: 1/8 -8 Watts

Applications: Indoor or Outdoor (vandal resistant)

Approvals: UL, MEA, CSFM, FM, BFP, ULC

Wall or Ceiling Mount Speakers

Model Number	Finish	Order Code
ET-1080-R-ULC-D	Red	9834
ET-1080-W-ULC-D	White	9835

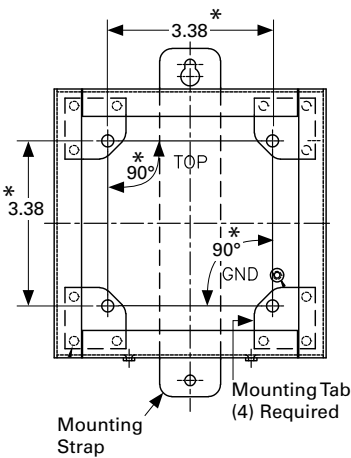
Mounting Options: Q, GG, MM^①

① For ET-1080 outdoor applications, only mounting option II is applicable.

UL Reverberant dBA @ 10 ft.

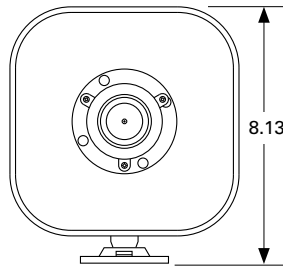
Model	Mounting	Watts						
		1/8	1/4	1/2	1	2	4	8
ET-1080	Flush	80 ⁺	83 ⁺	86	89	92	94	97
	Outdoor Flush	80 ⁺	83 ⁺	86	89	92	94	97 ⁺
	Surface	81 ⁺	84 ⁺	86	89	92	94	97 ⁺

Mounting Option MM - OSB (Used with ET1080)

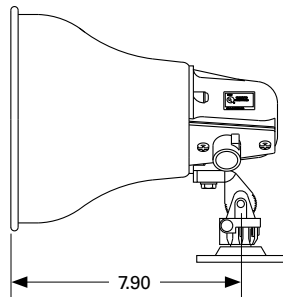


*Refer to specification sheet S7000 for mounting option details.

Note: Reference pages 38-45 for additional mounting information.

Horn Loudspeaker

Note: The SHMP plate is sold separately.

**Series STH-15S-ULC Supervised Horn Loudspeaker****Available features and options:**

- Equipped with compression driver providing up to 15 watts of power
- Superior intelligibility and dispersion

Finish Color: Red or Gray

Mounting: Wall or Ceiling

Power Rating: 15 Watt Continuous

Frequency Response: 400–4000Hz

Sensitivity: 102 dB @ 15 Watts @ 10ft

Dispersion: 70° (-6 dB @ 2,000 Hz Octave Band)

Transformer: 25/70/100V

Approvals: UL Standard 1480, ULC

Horns

Model Number	Finish	Order Code
STH-15S-ULC	Gray	8207
STH-15SR-ULC	Red	0046

Mounting Options: L, O, P, Q, R, U, Y

Anechoic Measurement

Code 3 Tone	107.2 dBA
Slow Whoop	108.5 dBA
Siren	107.8 dBA

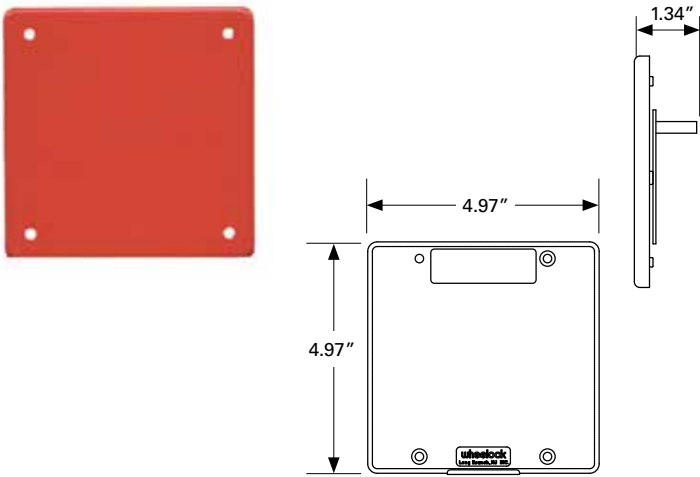
Adapter Plate

Model Number	Finish	Order Code
SHMP-R	Red	8154

Setting	Impedance (Ohms)	70.7 Volts		25 Volts		100 Volts	
		Watts	dB @ 10 ft.	Watts	dB @ 10 ft.	Watts	dB @ 10 ft.
1	5,000	0.9W	93	Not used	Not used	2.0W	93
2	2,500	1.8W	96	Not used	Not used	4.0W	96
3	1,300	3.8W	96	0.48W	90	7.5W	99
4	666	7.5W	99	0.94W	90	15.0W	102
5	333	15.0W	102	1.8W	93	Not used	Not used
6	89	Not used	Not used	7.5W	99	Not used	Not used
7	45	Not used	Not used	15.0W	102	Not used	Not used

Note: Reference pages 38-45 for additional mounting information.

Sync Module



Series **DSM** Sync Module

Available features and options:

- Uniquely designed to accept an independent strobe and audible input from the FACP and convert to a single output that connects to Wheelock's Series Exceder or AS family of audible strobes
- Series DSM Sync Modules can also be used to synchronize Wheelock's Series RSS and RSSP
- 3-ampere-per-circuit current handling at 12 or 24 VDC
- Compatible with all standard fire alarm control panels
- Meets the NFPA-72 requirement for Temporal Pattern when used with the Series AS/AH and/or Series Exceder
- 3-year warranty

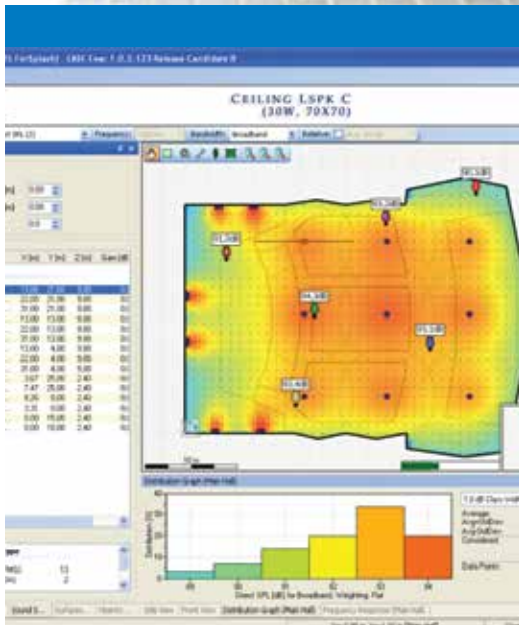
Finish Color: Red

Mounting: Wall

Voltage: 12 or 24 VDC (3 ampere per circuit)

Approvals: UL, CSFM, MEA, BFP, FM, ULC

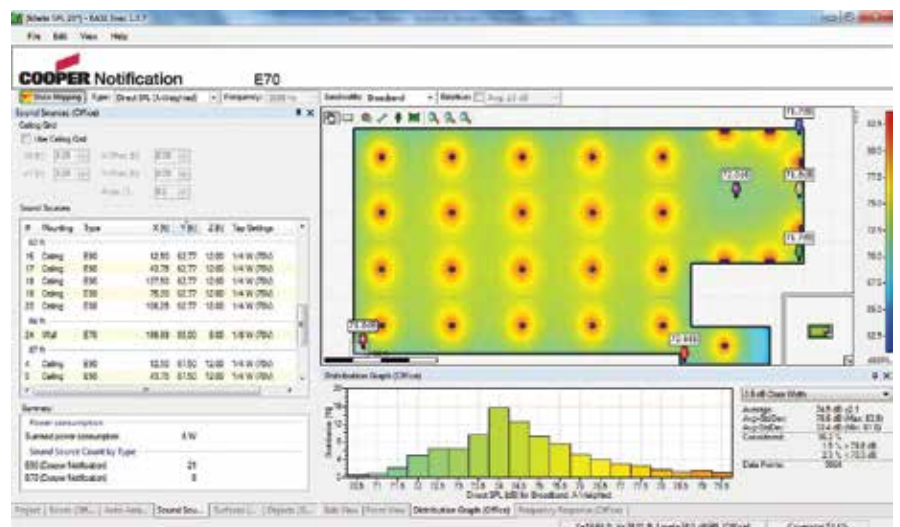
Model Number	Finish	Order Code
DSM-12/24-R	Red	6374



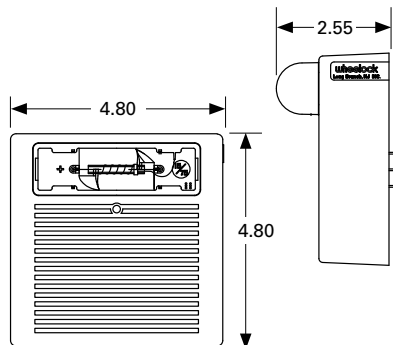
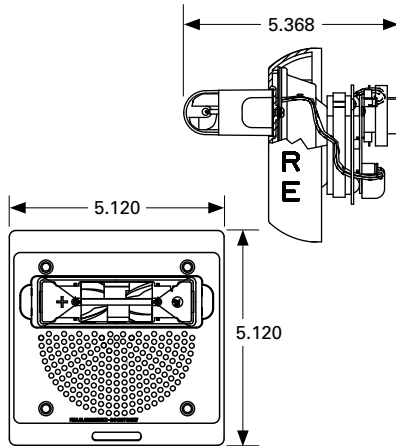
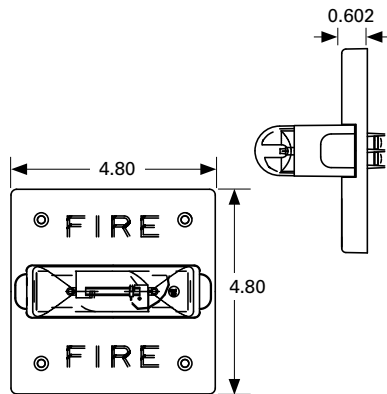
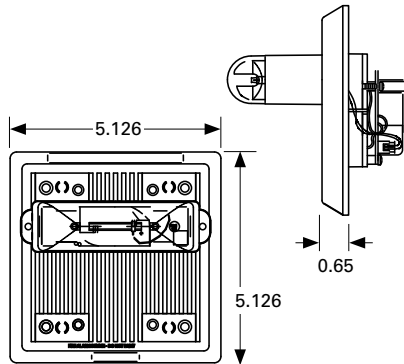
EASE and AFMG are registered trademarks of AFMG Technologies GmbH.

- Import of image files, Google Sketchup, AutoCAD DXF as well as EASE models as a basis for the entry of room geometry by mouse or in a table.
- Auto-arrange function for fast layout of ceiling-mounted sound systems.
- Insertion and modification of individual ceiling- and wall-mounted sound sources.
- Top view, side, and front view for easy loudspeaker placement and intuitive investigation of sound distribution in the vertical plane.
- Mapping of Direct SPL (Z or A-Weighted), Total SPL (Z or A-Weighted), S/N Ratio.
- Room acoustic calculations based on definition of reverberation time or assignment of acoustic materials to surfaces according to Eyring & Sabine.
- Mapping of speech intelligibility as STI (IEC 60268-16), CIS, ALCons.
- Analysis in 1/3rd octave, 1/1 octave, 3/1 octave bandwidth or broadband, frequency range from 100 Hz to 10 kHz.
- Relative mapping function and distribution graph for statistical analysis of coverage.
- Frequency response plots for multiple receiver locations, relative or absolute display.
- Section plan for user-defined mappings in the vertical plane.
- Printable report document including all results and drawing details.
- Export of drawings in AutoCAD DXF, Google Sketchup, EASE formats or as image file.
- Calculation engine based on EASE 4.3 industry standard for electro- and room acoustic modeling.
- Expandable database of common noise levels, surface materials, 3D objects and sound sources.
- Supports multiple rooms within one project.
- Display and data entry in metric units or US units.
- User-defined colors and window layout.

Visit <http://www.coopernotification.com/software> and scroll to Cooper Notification Speaker (GLL) Files – EASE and EASE Evac Software.



Weatherproof Appliances



Series MTWP, RSSWP, ET70WP, ASWP, AHPW Weatherproof Appliances

Available features and options:

- Weatherproof with extended temperature range of -31°F to 150°F
- Dual listed strobe models (UL 1638 and UL 1971)
- Industry's highest strobe candela options
- Synchronize using the Wheelock Sync Modules or panels with built-in Wheelock Patented Sync Protocol
- Models with field selectable tone, dBA and candela settings
- Surface or semi-flush mounting
- IN/OUT wiring termination accepting two #12-#18 AWG wires at each terminal

Finish Color: Red or White

Mounting: Wall or Ceiling

Input Voltage: Selectable 25/70 VRMS

Voltage: 24 VDC

Selectable Taps: 1/8-2 Watts

Strobe Candela:

- Selectable 135/185 (Wall models)
- 115/177 (Ceiling models) or 2475

Temperature: -31°F to 150°F

Approvals: UL, CSFM, FM, MEA, ULC (model dependent)

Note: Reference pages 38-45 for additional mounting information.

Model Number	Finish	Order Code
Multitone Strobe Wall		
MTWP-2474W-FR	Red	8420
MTWP-2475W-FW	White	3112
Audible Strobe Wall		
ASWP-2475W-FR	Red	9012
ASWP-2475W-FW	White	3179
ASWP-24MCWH-FR	Red	5137
ASWP-24MCWH-FW	White	5140
Audible Strobe Ceiling		
ASWP-2475C-FR	Red	4251
ASWP-2475C-FW	White	4502
ASWP-24MCCH-FR	Red	5149
ASWP-24MCCH-FW	White	5157
Multitone Horn		
MT-12/24-R	Red	5023
Audible Wall or Ceiling		
AH-24WP-R	Red	7416
Speaker Wall or Ceiling		
ET-1080-R-ULC-D	Red	9834
ET-1080-W-ULC-D	White	9835
Wall Strobe		
RSSWP-2475W-FR	Red	9013
RSSWP-2475W-FW	White	3034
RSSWP-24MCWH-FR	Red	5161
RSSWP-24MCWH-FW	White	5165
Ceiling Strobe		
RSSWP-2475C-FR	Red	4338
RSSWP-2575C-FW	White	4446
RSSWP-24MCCH-FR	Red	5167
RSSWP-24MCCH-FW	White	5187

Backboxes, Plates, Gasket Kits

Mounting Options	Surface Mount		Flush Mount
	Exposed Conduit	Concealed Conduit	
RSSWP Strobes	WPSBB	WPSBB + WP-KIT	WFP
ASWP Horn Strobes	WPBB	WPBB + WP-KIT	WFP
AHWP Horns	WBB	—	WFP
MTWP Multitone Strobes	IOB	IOB + WP-KIT	WFP

Candela Ratings

Series	UL 1971	UL 1638 @ 77°F	UL 1638 @ -40°F	RSS and MTWP UL Max Current	High	Med	Low
2475W	30**	180	115	0.138	0.168	0.155	0.150
MCWH	135	135	56	0.300	0.355	0.340	0.335
	185	185	77	0.420	0.480	0.465	0.460
MCCH	115	115	47	0.300	0.355	0.340	0.335
	177	177	73	0.420	0.480	0.465	0.460

Mounting Options

Model Number	Finish	Order Code
Flush Plates		
WFP-R	Red	5698
WFP-W	White	4701
WFP-R	Red	4696
WFP-W	White	4697
Gasket Kit		
WP-KIT ^①		4486
Backboxes		
IOB-R	Red	5046
IOB-W	White	5047
WPSBB-R	Red	9751
WPSBB-W	White	3033
WPBB-R	Red	9014
WPBB-W	White	4692
WBB-R	Red	2959
WBB-W	White	2960

① WP-KIT: Allows for surface mounting of a weatherproof backbox to a recessed electrical box.

UL Max. Current (Audible)

dBA	MTWP/MT 16-33 VDC		MT 8-17.5 VDC	
	HI	STD	HI	STD
Horn	0.108	0.044	0.177	0.034
Bell	0.053	0.024	0.095	0.020
March Time Horn	0.104	0.038	0.142	0.034
Code-3 Horn	0.091	0.035	0.142	0.034
Code-3 Tone	0.075	0.035	0.105	0.021
Slow Whoop	0.098	0.037	0.142	0.035
Siren	0.104	0.036	0.152	0.030
Hi/Lo	0.057	0.025	0.114	0.026

UL Max. Current

	AH 16-33 VDC		8-17.5 VDC
	0.080	0.192	
High (99) dBA	0.080	0.192	
Med (95) dBA	0.043	0.108	
Low (90) dBA	0.021	0.058	

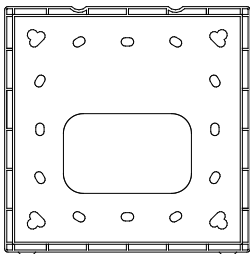
ASWP		
High	Med	Low
0.168	0.155	0.150
0.355	0.340	0.335
0.480	0.465	0.460
0.355	0.340	0.335
0.480	0.465	0.460

**Wall mount rating only

Mounting Options

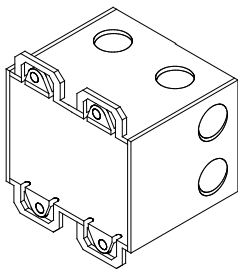
(A) Universal Mounting Plate

“AS” Mounting



(F) Double-Gang, Flush (B0)

See Note 4



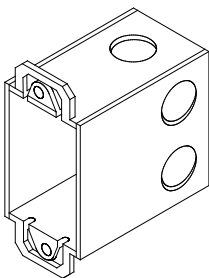
Maximum Number of Conductors

AWG. #18	AWG. #16	AWG. #14	AWG. #12
4	4	4	4

(B) Single-Gang, Flush (B0)

Used with Series MIZ, RSS

See Notes 1 & 8



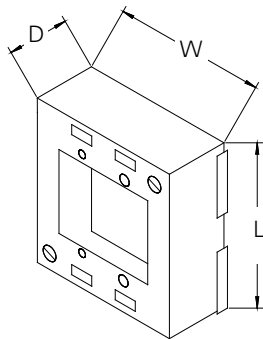
Maximum Number of Conductors

AWG. #18	AWG. #16	AWG. #14	AWG. #12
4	4	4	4

(G) Double-Gang, Surface (B0)

Used with Series RSS

See Note 5



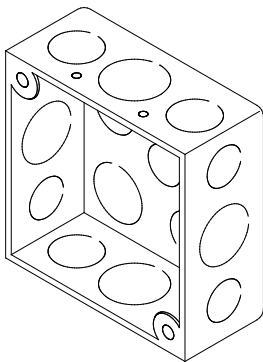
Length	Width	Depth	Gang #
4-3/4"	4-3/4"	1-3/4"	2

Maximum Number of Conductors

AWG. #18	AWG. #16	AWG. #14	AWG. #12
4	4	4	4

(D) 4" Square, Flush (B0)

See Note 2



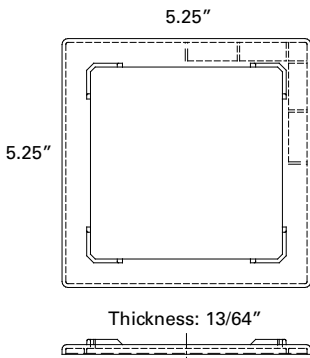
Maximum Number of Conductors

AWG. #18	AWG. #16	AWG. #14	AWG. #12
4	4	4	4

1-1/2" Deep

(H) NATP (Order Codes: Red 8440, White 8441)

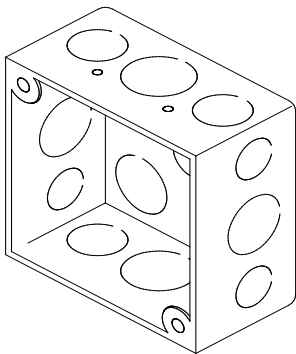
Used with Series RSS



(E) 4" Square, Deep, Flush (B0)

Used with Series 31T, 43T, AMT, ET-1010, HS4, HS, MB, MT, MT4, RSS, RSSP

See Note 3



Maximum Number of Conductors

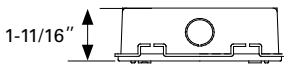
AWG. #18	AWG. #16	AWG. #14	AWG. #12
8	8	8	8

2-1/8" Deep

(I) WPBB (Order Code: 9014)

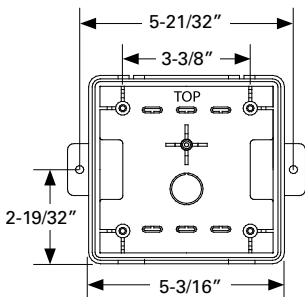
For surface mounting AS outdoor products

Used with Series ASWP Weatherproof



Maximum Number of Conductors

AWG. #18	AWG. #16	AWG. #14	AWG. #12
8	8	8	8

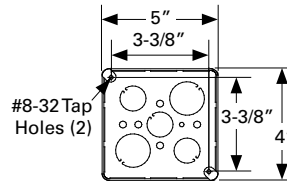


(J) BB Backbox (Order Codes: Red 2830, Gray 2349)

Standard steel backbox with knockouts for interior surface mounting, concealed conduit mounting or semi-flush applications. It is painted to match the signal.

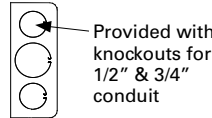
Used with Series 31T, 43T, MB, MT4, RSS

See Note 9



Maximum Number of Conductors

AWG. #18	AWG. #16	AWG. #14	AWG. #12
4	4	4	4

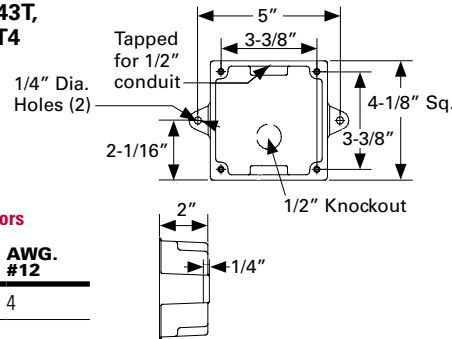


(K) WBB Weather Resistant Backbox (Order Codes: Red 2959, White 2411)

Sturdy die-cast housing, threaded conduit hole and knockout for outdoor applications. It is painted to match the signal.

Used with Series 31T, 43T, AHWP, ET-1010, MB, MT4

See Note 2

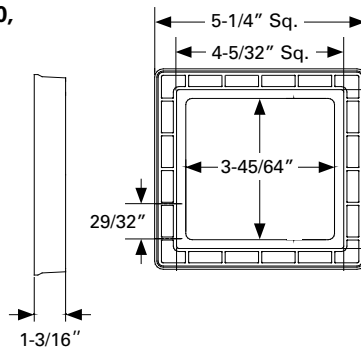


Maximum Number of Conductors

AWG. #18	AWG. #16	AWG. #14	AWG. #12
4	4	4	4

(L) ISP2 Surface Adapter (Order Code: Red 3194, White 3195)

Used with Series AMT, CH70, E70, ET70, HS4, HS, MT

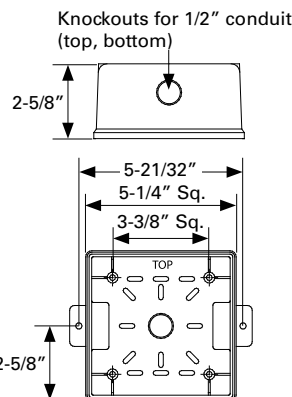


(M) IOB Backbox (Order Codes: Red 5046, White 5047)

For surface mounting MT products

Used with Series AMT, ET70WP, HS4, HS, MT, MTWP

See Note 10



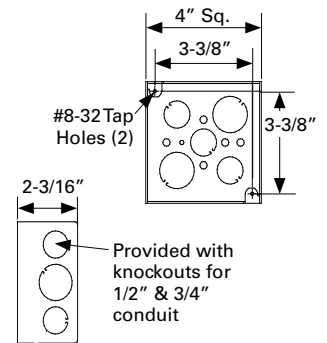
Maximum Number of Conductors

AWG. #18	AWG. #16	AWG. #14	AWG. #12
8	8	8	8

(N) DBB Backbox (Order Code: 2955)

Standard steel backbox provided with knockouts for interior surface mounting, concealed conduit mounting or semi-flush applications. It is painted to match the signal.

Used with Series 31T, 43T, AMT, ET-1010, HS4, HS, MB, MT, MT4, RSS

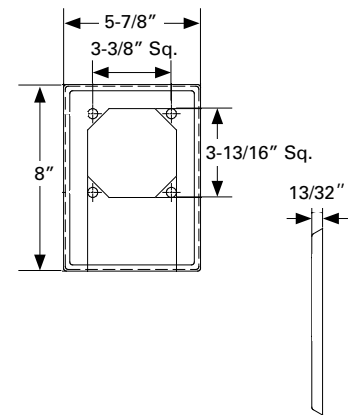


Maximum Number of Conductors

AWG. #18	AWG. #16	AWG. #14	AWG. #12
8	8	8	8

(O) RP-R Retrofit Plate (Order Code: 5042)

Used with Series 31T, 43T, AMT, CH70, E70, ET70, ET-1010, ET-1080, HS4, HS, MB, MT, MT4, RSS

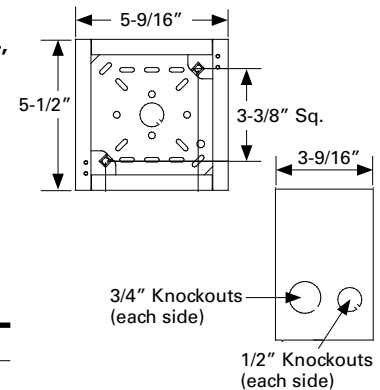


(P) SBB Backbox (Order Codes: Red 3204, White 3193)

For surface mounting speakers, chimes, and electronic applications

Used with Series 43T, AMT, CH70, E70, ET70, ET-1080, HS4, HS, MB, MT, RSS

See Note 11



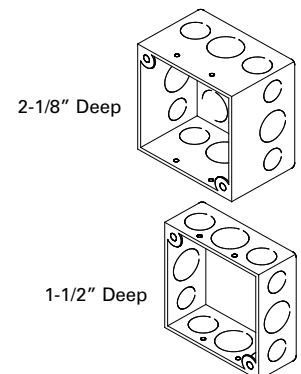
Maximum Number of Conductors

AWG. #18	AWG. #16	AWG. #14	AWG. #12
8	8	8	8

(Q) 4" Square Deep w/ Extension Ring, Flush (B0)

Used with Series CH70, CH90, E70, ET70, E90, ET90, ET-1080

See Note 6



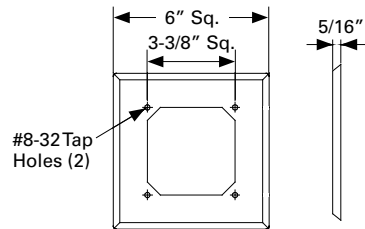
Exterior Ring Depth	1-1/2"	2-1/8"
AWG. #18	8	8
AWG. #16	8	8
AWG. #14	8	8
AWG. #12	4	8

Mounting Options

(R) SFP Semi-Flush Plate (Order Codes: Red 2957, White 2958)

Stamped aluminum surface wall plate which mounts behind the basic unit and serves to cover recessed backboxes in semi-flush mounting applications. It is painted to match the signal.

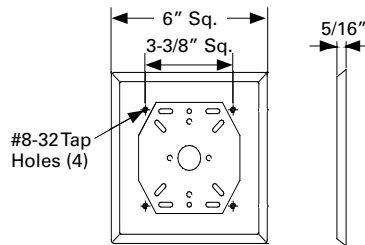
Used with Series 31T, 43T, AMT, CH70, E70, ET70, ET-1010, ET-1080, HS4, HS, MB, MT, MT4, RSS



(S) AP Adapter Plate (Order Code: 2961)

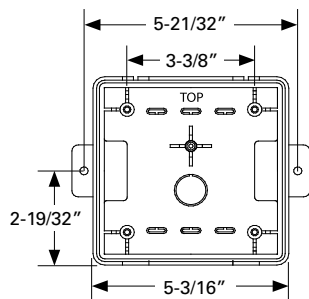
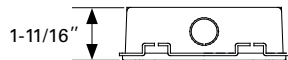
Stamped aluminum adapter plate designed for applications where semi-flush installations cannot be used. The plate can be mounted to standard octagon or round backboxes single or double gang boxes or plaster rings. The backbox and basic unit are then fastened to the plate. This type mounting is referred to as a concealed conduit installation. It is painted to match the signal.

Used with Series 43T, MB



(T) WPSBB-R (Order Codes: Red 9751, White 3033)

Used with Series RSSWP Weatherproof

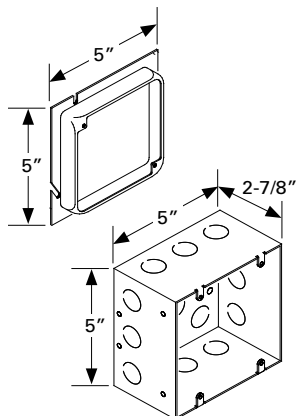


Maximum Number of Conductors

AWG. #18	AWG. #16	AWG. #14	AWG. #12
8	8	8	8

(U) 5" Square Backbox w/ Extension Ring, Flush (B0)

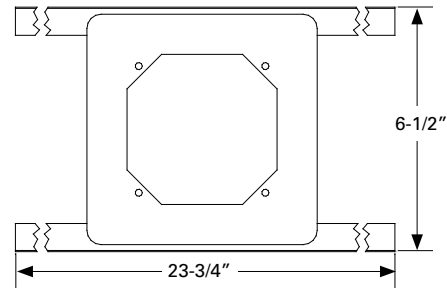
Used with Series CH70, CH90, E70, ET70, E90, ET90, ET-1080



(V) SSB-4 Ceiling Support Bridge (Order Code: 3380)

Provisions for (4) J-nuts #8-32 ib 3-3/8" square. Material: Steel

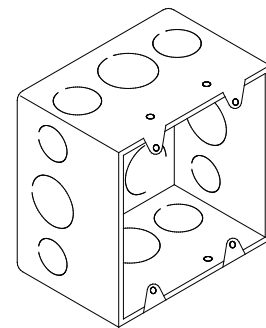
Used with Series CH70, CH90, E70, ET70, E90, ET90, ET-1080



(W) 4-11/16" Square, Deep Surface (B0)

Used with Series DSM

See Note 7

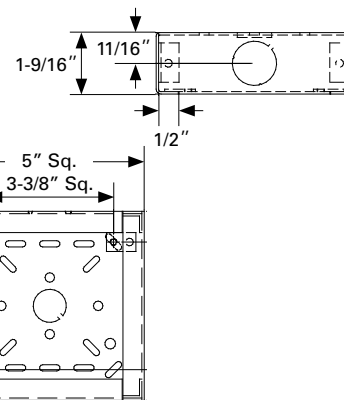


Maximum Number of Conductors

AWG. #18	AWG. #16	AWG. #14	AWG. #12
10	10	10	10

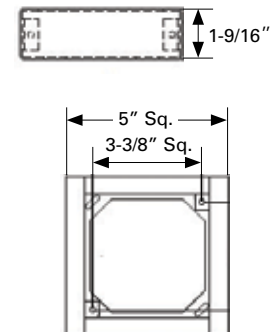
(X) SHBB Square, Surface Backbox (Order Codes: Red 7254, White 7255)

Used with Series 43T, MB, RSS



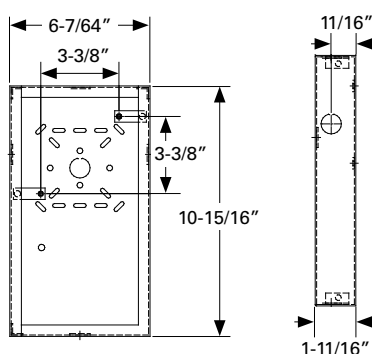
(Y) SER-R Square Semi-Flush Extension Ring (Order Codes: Red 3045, White 3049)

Used with Series CH70, E70, ET70



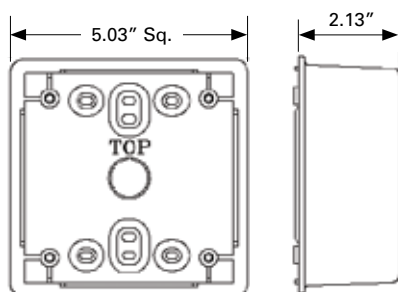
(Z) SBL-2 Backbox (Order Codes: Red 6988, White 6989)

Used with Series RSSP



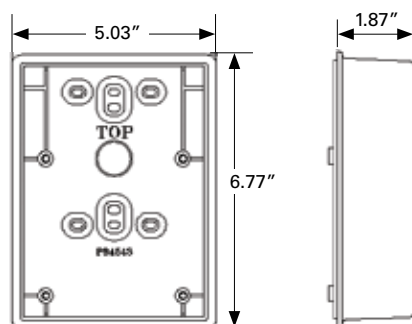
(AA) E50SB-R (Order Codes: Red 0230, White 0231)

Used with Series E50



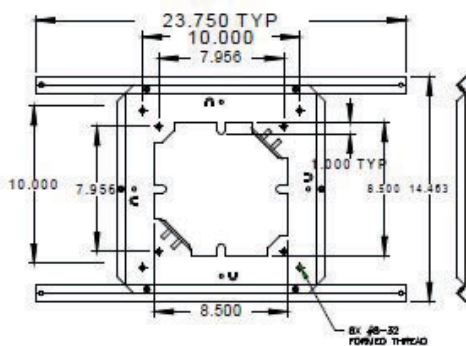
(BB) E50SSB-R (Order Codes: Red 0232, White 0233)

Used with Series E50



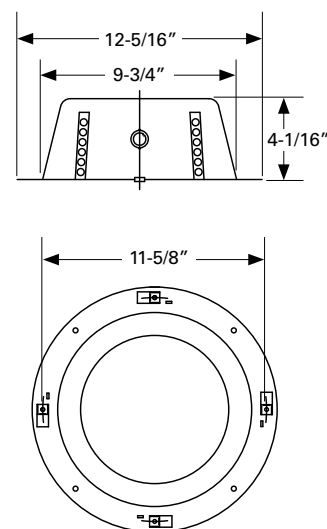
(CC) SSB-8 8" Ceiling Support Bridge (Order Code: 3573)

Used with Series S 8" Ceiling Speakers

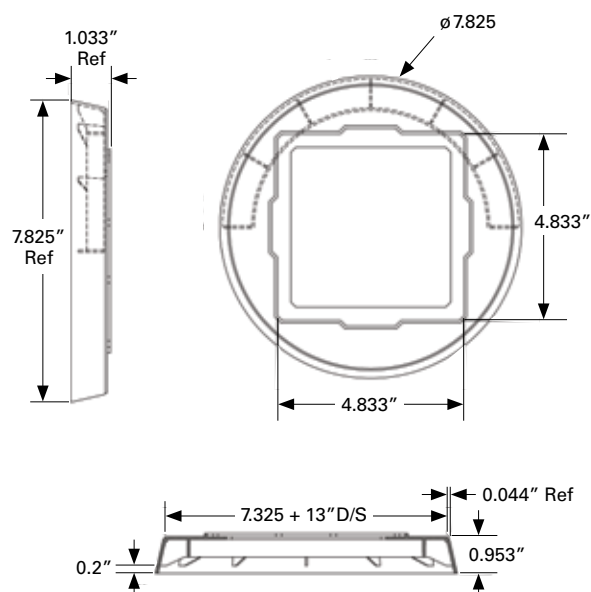


(DD) CBB-8 8" Ceiling Speaker Backbox (Order Code: 3314)

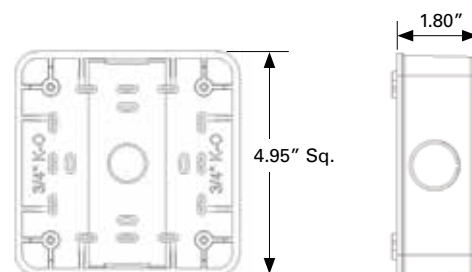
Used with Series S8" Ceiling Speakers



(EE) E60 Extension Ring (Order Code: Red 3758, White 3757)

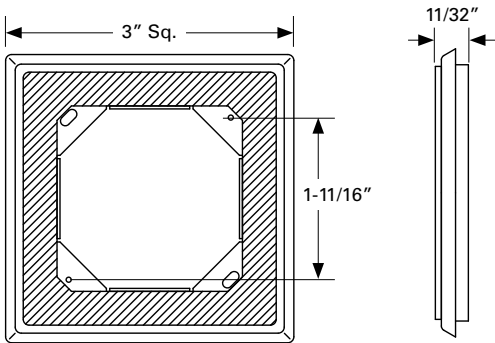


(FF) ZBB (Order Codes: Red 6036, White 6045)



Mounting Options

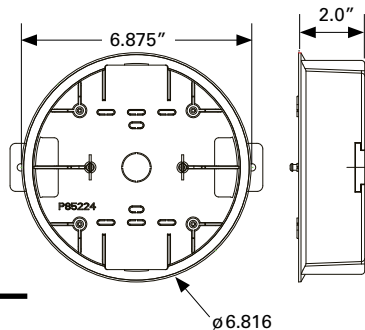
(GG) WFP Plate (Order Codes: Red 4696, White 4697)



(JJ) ESBC Backbox (Order Codes: Red 2751, White 2752)

For indoor surface mounting of Exceder products

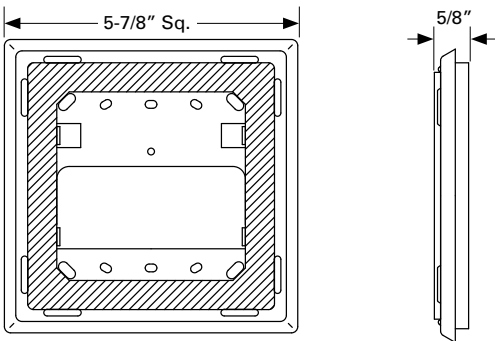
Used with Exceder STC, HSC, HNC



Maximum Number of Conductors

AWG. #18	AWG. #16	AWG. #14	AWG. #12
4	4	4	4

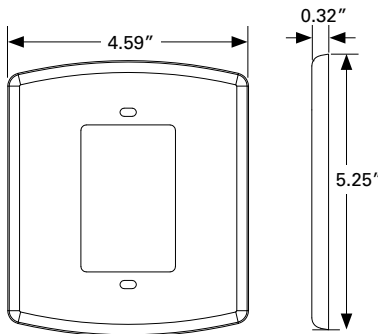
(HH) WFPA Plate (Order Codes: Red 4696, White 4697)



(KK) ESB-KIT (Order Codes: Red 0533, White 0534)

Trim Plate Kit for Exceder LED

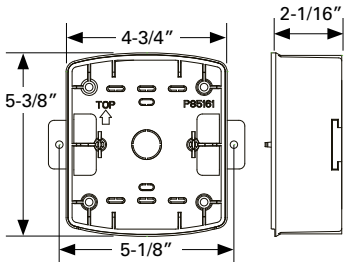
Used with Exceder LST, LHS, LHN



(II) ESB Backbox (Order Codes: Red 2749, White 2750)

For indoor surface mounting of Exceder products

Used with Exceder ST, HS, HN

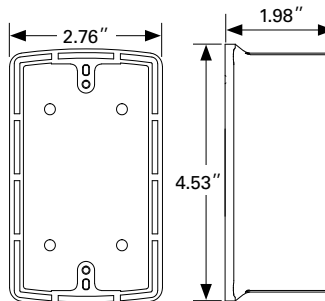


Maximum Number of Conductors

AWG. #18	AWG. #16	AWG. #14	AWG. #12
4	4	4	4

(LL) LSBB Backbox (Order Codes: Red 2402, White 2403)

Used with Exceder LST, LHS, LHN

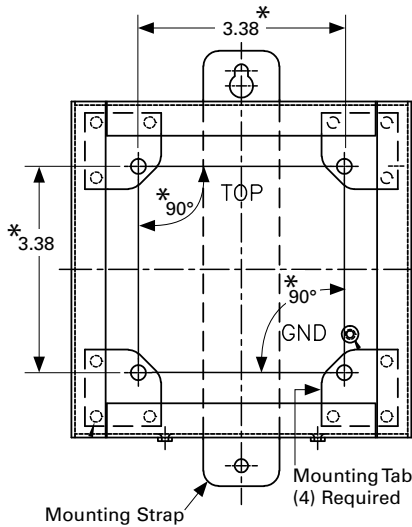


Maximum Number of Conductors

AWG. #18	AWG. #16	AWG. #14	AWG. #12
4	4	4	4

(MM) OSB

Used with ET1080

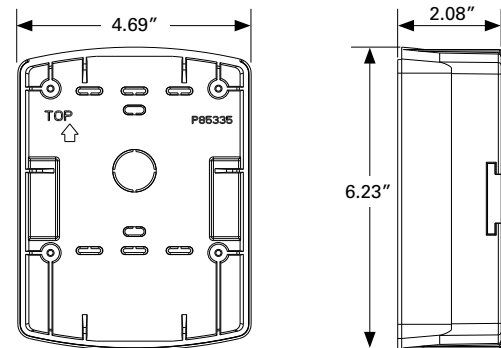


*Refer to specification sheet S7000 for mounting option details.

(NN) LSPKBB Backbox (Order Codes: Red 0756, White 0757)

For indoor surface mounting of Exceder LED Speaker products

Used with Exceder LSPK, LSPST

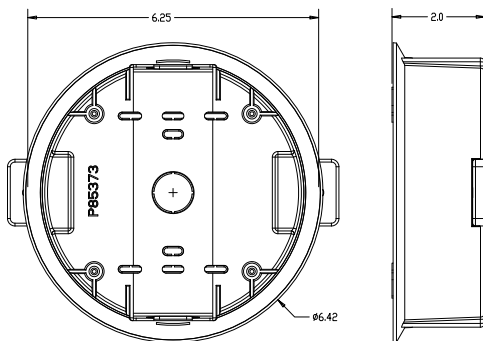


Maximum Number of Conductors

AWG. #18	AWG. #16	AWG. #14	AWG. #12
4	4	4	4

(00) LSPKBB-C Backbox (Order Codes: Red 0927, White 1003)

Used with Exceder LED Ceiling LSTC, LHSC, LHNC, LSPKC, LSPSTC



Maximum Number of Conductors

AWG. #18	AWG. #16	AWG. #14	AWG. #12
4	4	4	4

- Figure B is typical of a Steel City LXM-WOW box or equal. Figure B should be a 3.5" deep backbox for conduit installations and is typical of a Steel City CY-1/2 box or equal.
- Figure D is typical of a Steel City 52151 box or equal.
- Figure E is typical of a Steel City 52171 box or equal.
- Figure F is typical of two Steel City LXM-WOW boxes or equal.
- Figure G is typical of a Wiremold 5748-2 box or equal.
- Figure Q is typical of a Steel City 52171 box with a Steel City 53151 extension ring or equal.
- Figure W is typical of a Steel City 72171-1 box or equal.
- Use 3.5" deep backbox on all MIZ products when EMT conduit is used.
- When used with AC Horn (J), "BB" must be used for surface mount.
- HS4, HS, MT or MTWP Strobe are for outdoor mounting.
- Use with Series RSSP.
- Figure U is typical of a RANDL Industries backbox. ("Total Number of conductors shall be in accordance with NEC table 314.16 (B)").

Mounting Options

Mounting Matrix

	Series E90/ET90	Series RSS/RSSR	Series RSSP	Series 31T	Series E50	Series 43T Bells	Series ET1080	Series MB Motor Bells	Series E70/ET70	Series E60	Series MIZ/MIZ-TC	Series MT	Series HS4/HS	Series SM/DSM	Series AMT	Series AH	Series RSSWP(1), ASWP(2), AHWP(3), MTWP(4), MT-12/24(4), ET70WP(4)	Series S8	Series Exceder - STC, HSC, HNC	Series Exceder - ST, HS, HN	Series Exceder LED - LST, LHS, LHN	Series Exceder LED - LSPK, LSPST	Series Exceder LED - LSTC, LHSC, LHNC, LSPKC, LSPSTC
(A) Universal Mounting Plate																							
(B) 1-GANG x 2" Deep – Flush (BO) Note 1 & 8		X								X													
(D) 4" x 4" x 1.5" Deep – Flush (BO) Note 2		X	X	X		X	X																
(E) 4" x 4" x 2.125 Deep – Flush (BO) Note 3		X	X	X	X	X	X					X	X		X								
(F) 2-Gang x 3.5" Deep – Flush (BO) Note 4 & 8		X										X	X		X								
(G) 2-Gang x 1.75" Deep – Surface (BO) Note 5		X																					
(H) NATP Trim Plate		X																					
(I) WPBB-R Weatherproof Backbox for ASWP																	2						
(J) BB Surface (WSI) Note 9		X		X		X	X																
(K) WBB Weatherproof (WSI)				X		X	X										3						
(L) ISP Adapter (WSI) for Square Products												X	X		X								
(M) IOB Surface & Weatherproof (WSI) Note 10									X			X	X		X		4						
(N) DBB Surface (WSI)		X		X		X	X					X	X		X								
(O) RP-R Retrofit Plate		X		X		X	X					X	X		X								
(P) SBB Surface (WSI) Note 11	X	X				X	X	X				X	X		X								
(Q) 4" x 4" x 2.125" Box w/ 1.5" Extension Ring – Flush (BO) Note 6	X		X						X	X													
(R) SPT Semi-Flush Plate (WSI)		X		X		X	X	X				X	X		X								
(S) AP Adapter Plate (WSI)						X	X	X															
(T) WPSBB-R Weatherproof Backbox for RSSWP																	1						
(U) 5" Square Backbox w/ Extension Ring, Flush (BO)	X									X													
(V) SSB-4 Ceiling (WSI) Support Bridge	X								X	X													
(W) 4.6875" x 4.6875" x 2.125" Deep Surface (BO)														X									
(X) SHBB (WSI) Shallow Surface		X				X	X																
(Y) SER Semi-Flush Extension Ring (Retrofit Appl.)	X								X														
(Z) SBL-2 Surface (WSI) Note 11		X	X	X		X	X																
(AA) E50SB Backbox for E50 Speaker					X																		
(BB) E50SB Backbox for E50 Speaker Strobe					X																		
(CC) SSB-8 8" Speaker Support Tile Bridge																	X						
(DD) CBB-8 8" Ceiling Speaker Backbox																	X						
(EE) E60 Extension Ring										X													
(FF) ZBB																							
(II) ESB Backbox																				X			
(JJ) ESBC Backbox																		X					
(LL) LSBB Backbox																					X		
(MM) OSB Backbox							X																
(NN) LSPKBB Backbox																						X	
(OO) LSPKBB-C Backbox																							X
Data Sheet Number(s)	S0310 S1610	S0410 S9008	S0410	S0500	S0510	S0600	S0310C	S1500	S0310 S1610	S1611	S1700	S2000	S2400	S3000	S4000		S9004	S1100	Exceder	Exceder	Exceder LED	Exceder LED Speaker	Exceder LED Ceiling

Mounting Notes

⚠ Caution: The mounting options figures show the maximum number of field wires (conductors) that can enter the backbox used with each mounting option. If these limits are exceeded, there may be insufficient space in the backbox to accommodate the field wires and stresses from the wires could damage the product. Although the limits shown for each mounting option comply with the National Electrical code (NEC), Wheelock recommends use of the largest backbox option and the use of approved stranded field wires whenever possible, to provide additional wiring room for easy installation and minimum stress on the product from wiring.

⚠ Caution: Check that the installed product will have sufficient clearance and wiring room prior to installing backboxes and conduit, especially if sheathed multiconductor cable or 3/4" conduit fittings are used.

1. Mounting hardware for each mounting option is supplied.
2. Conduit entrances to the backbox should be selected to provide sufficient wiring clearance for the installed product. When extension rings are required, conduit should enter through the backbox, not the extension ring. Use Steel City #53151 (1-1/2" deep) or #53171 (2-1/8" deep) extension rings (as noted in the mounting options) or equal with the same cut-out area.
3. When terminating field wires, do not use more lead length than required. Excess lead length could result in insufficient wiring space for the appliance.
4. Use care and proper techniques to position the field wires in the backbox so that they use minimum space and produce minimum stress on the product. This is especially important for stiff, heavy gauge wires and wires with thick insulation or sheathing.
5. Do not pass additional wires (used for other than the appliance) through the backbox "unless the backbox is of a sufficient size to permit additional wiring as described in NEC 314.16 (B)". Such additional wires could result in insufficient wiring space for the appliance.

Note: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Wheelock Inc. standard terms and conditions.

Backbox Mounting Heights for Wheelock Wall-Mounted Horizontal Strobe Appliances

NFPA-72 (2002)

7.5.4* Appliance Location. Wall-mounted appliances shall be mounted such that the entire lens is not less than 2.0 m (80 in.) and not greater than 2.4 m (96 in.) above the finished floor.

Backbox Mounting Options*	RSSP Flush Surface Retrofit	Exceder ST, HS, HN		RSS Strobe		MT and AMT Multitone Strobe		Exceder LED - LST, LHS, LHN		Exceder LED Speakers - LSPK, LSPST	
	80 In.	80 In.	6 In.	80 In.	6 In.	80 In.	6 In.	80 In.	6 In.	80 In.	6 In.
(B) 1-Gang x 2" Deep - Flush (BO)		80 ³ / ₄	5 ¹ / ₄	79 ¹ / ₈	6 ⁷ / ₈			79	7		
(D) 4" x 4" x 1.5" Deep - Flush (BO)	83 ¹⁵ / ₁₆	80 ¹ / ₄	5 ³ / ₄	78 ⁵ / ₈	7 ³ / ₈	77 ¹ / ₈	8 ¹ / ₈			80 ¹ / ₄	5 ³ / ₄
(E) 4" x 4" x 2.125" Deep - Flush (BO)	83 ¹⁵ / ₁₆	80 ¹ / ₄	5 ³ / ₄	78 ⁵ / ₈	7 ³ / ₈	77 ⁷ / ₈	8 ¹ / ₈			80 ¹ / ₄	5 ³ / ₄
(F) 2-Gang x 3.5" Deep - Flush (BO)		80 ³ / ₄	5 ³ / ₄	79 ¹ / ₈	6 ⁷ / ₈	78 ³ / ₈	7 ⁵ / ₈				
(G) 2-Gang x 1.75" Deep - Surface (BO)		79 ⁷ / ₈	6 ¹ / ₈	78 ¹ / ₄	7 ³ / ₄	77 ¹ / ₂	8 ¹ / ₂				
(M) IOB Surface & Weatherproof (WSI)						77 ¹ / ₄	8 ³ / ₄				
(P) SBB Surface (WSI)						77 ¹ / ₈	8 ⁷ / ₈				
(Q) 4" x 4" x 2.125" Box w/ 1.5" Extension Ring - Flush (BO)	83 ¹⁵ / ₁₆	80 ¹ / ₄	5 ³ / ₄	78 ⁵ / ₈	7 ³ / ₈	77 ⁷ / ₈	8 ¹ / ₈	78 ¹ / ₈	7 ¹ / ₂		
(U) 5" Square Backbox w/ Extension Ring, Flush (BO)	83 ⁷ / ₁₆			78 ¹ / ₈	7 ⁷ / ₈	77 ³ / ₈	8 ⁵ / ₈				
(X) SHBB (WSI) Shallow Surface				78 ¹ / ₈	7 ⁷ / ₈						
(Y) 4" x 4" x 1.5" Box w/ 1.5" Extension Ring Plate (BO)											
(Z) SBL-2 Surface (WSI)	80 ¹ / ₂										
(II) ESB Backbox 5.375" x 4.75" x 2.0625"		79 ⁹ / ₁₆	6 ⁷ / ₁₆								
(LL) LSBB Backbox 4.53" x 2.76" x 1.98"								78 ³ / ₄	7 ¹ / ₄		
(NN) LSPKBB Backbox 6.23" x 4.69" x 2.08"										78 ¹ / ₂	7 ¹ / ₂

Backbox Mounting Options*	Series CH70 Chime Strobe		Series ET80 Speaker Strobe		Series E70 Speaker Strobe		Series ET70 Speaker Strobe		Series SA-70S Self Amplified Speaker Strobe	
	80 In.	6 In.	80 In.	6 In.	80 In.	6 In.	80 In.	6 In.	80 In.	6 In.
(P) SBB Surface (WSI)	77 ³ / ₄	8 ¹ / ₄	79 ³ / ₁₆	6 ¹³ / ₁₆	77 ³ / ₄	8 ¹ / ₄	77 ³ / ₄	8 ¹ / ₄	79 ³ / ₁₆	6 ¹³ / ₁₆
(Q) 4" x 4" x 2.125" Box w/ 1.5" Extension Ring - Flush (BO)	77 ¹ / ₂	7 ¹ / ₂	80	6	78 ¹ / ₂	7 ¹ / ₂	78 ¹ / ₂	7 ¹ / ₂	80	6
(U) 5" Square Backbox w/ Extension Ring - Flush (BO)	78	7	79 ¹ / ₂	5 ¹ / ₂	78	7	78	7	79 ¹ / ₂	5 ¹ / ₂
(X) SHBB (WSI) Shallow Surface										
(Y) 4" x 4" x 1.5" Box w/ 1.5" Extension Ring Plate - Flush (BO)	78 ¹ / ₂	7 ¹ / ₂	80	6						

* Measured from bottom of backbox (inches)

Note: (BO) = By Others; (WSI) = Wheelock Product

Agency Approvals

Model	Agency Approvals				
	UL	MEA	CSFM	FM	ULC
43T-G10-115	X	*	X	X	X
43T-G10-24	X	*	X	X	X
43T-G6-115	X	*	X	X	X
43T-G6-24	X	*	X	X	X
AH-24WP	X	X	X	X	X
AMT-12/24	X	X	X	X	X
AMT-12/24-NYC	X	X	X	X	X
AMT-24MCW	X	*	X	X	X
ASWP-2475C	X	X	X	X	X
ASWP-2475W	X	*	X	*	X
ASWP-24MCCH	X	X	X	X	X
ASWP-24MCWH	X	X	X	X	X
DSM-12/24	X	X	X	X	X
E50-24MCW-ULC	X	*	*	*	X
E50-ULC	X	*	*	*	X
E50H-24MCW	X	*	X	*	X
E50H-24MCWH	X	*	X	*	X
E50H	X	*	X	*	X
E60-24MCC-ULC	X	X	X	X	X
E60-ULC	X	*	*	*	X
E60H-24MCC	X	*	X	*	X
E60H-24MCCH	X	*	X	*	X
E60H	X	*	X	*	X
E70H-24MCW	X	*	X	*	X
E70H-24MCWH	X	*	X	*	X
E70H	X	*	X	*	X
E90H-24MCC	X	*	X	*	X
E90H-24MCCH	X	*	X	*	X
E90H	X	*	X	*	X
ET-1080-ULC	X	X	X	X	X
HNR	X	*	X	X	X
HNRC	X	*	X	X	X
HNW	X	*	X	X	X
HNWC	X	*	X	X	X
HS-24	X	X	X	X	X
HS4-24MCW	X	X	X	X	X
HSR	X	*	X	X	X
HSRC	X	*	X	X	X
HSW	X	*	X	X	X
HSWC	X	*	X	X	X

Model	Agency Approvals				
	UL	MEA	CSFM	FM	ULC
LHN	X	*	X	X	X
LHNC	X	*	X	X	X
LHS	X	*	X	X	X
LHSC	X	*	X	X	X
LLFHN	X	*	X	*	X
LLFHS	X	*	X	*	X
LSPK	X	*	X	*	X
LSPKC	X	*	X	*	X
LSPST	X	*	X	*	X
LSPSTC	X	*	X	*	X
LST	X	*	X	X	X
LSTC	X	*	X	X	X
MB-G10-12	*	X	X	*	X
MB-G10-24	*	X	X	*	X
MB-G6-12	*	X	X	*	X
MB-G6-24	*	X	X	*	X
MIZ-24S	X	X	X	X	X
MT-12/24	X	X	X	X	X
MT-121575W	X	X	X	X	X
MT-241575W	X	X	X	X	X
MT-24MCW	X	*	X	*	X
MTWP-2475W	X	X	X	X	X
PS-6	X	*	X	X	*
RSS-24MCC	X	X	X	X	X
RSS-24MCCH	X	*	X	X	X
RSS-24MCW	X	X	X	X	X
RSSP-24MCW	X	X	X	X	X
RSSWP-2475W	X	X	X	X	X
STH-15-ULC	X	*	*	*	X
STR	X	*	X	X	X
STRC	X	*	X	X	X
STW	X	*	X	X	X
STWC	X	*	X	X	X

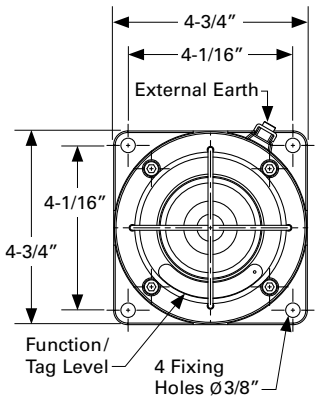
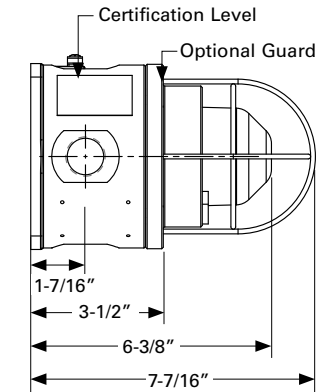


Explosion-Proof and Hazardous Signaling

Eaton offers a wide range of signaling devices for explosion-proof and hazardous applications.

- Strobes
- Horns, Speakers & Combo Units
- Call Points

Strobes



MEDC Series **SM87** Strobes

Available features and options:

- NEMA 4x & 6, IP66 & 67
- Light weight, corrosion resistant
- 4-wire monitored connection

Lens Color: Red, Blue, Green, Yellow, Amber, Clear

Voltage: 24 VDC, 48 VDC, 110 VAC, 120 VAC, 230 VAC, 240 VAC, 254 VAC

Certified Temperature: -67°F to +158°F (-55°C to +70°C)

Weight: 4.4lb (2.0 kg approx)

Material: LM25 TF Marine Grade Alloy

Approvals: UL, cUL, for Class 1, Div 1, Groups C & D, CSA Certified

Model Number	Finish	Order Code
SM87HXBAL024RN4L4RNNR	STRB, RED LENS, 24VDC, 29CD, CLASS 1 DIV 1, RD	PX56201144
SM87HXBAL024CN4L4RNNR	STRB, CLEAR LENS, 24VDC, 29CD, CLASS 1 DIV 1, RD	PX56201072
SM87HXBAL110AN3R3LNNR	STRB, AMBER LENS, 110VAC, 29CD, CLASS 1 DIV 1, RD	PX869166

Additional configuration options available: Body & lens color, tag & duty labels, certification, lens guard, flash rate, voltages 24-48 VDC, 110-254 VAC., high temp version up to 185°F/85°C.

See the SM87 product specification sheet or contact the Eaton Customer Service Team.

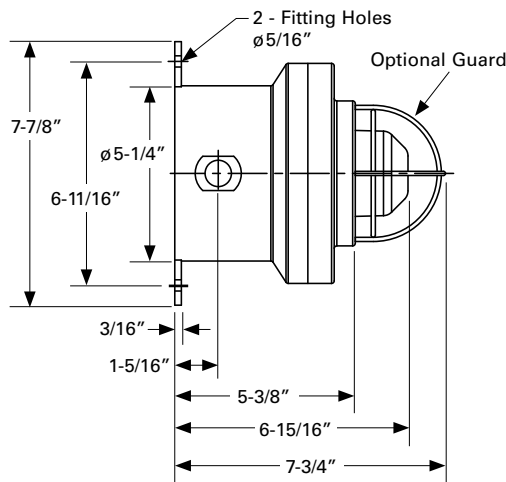
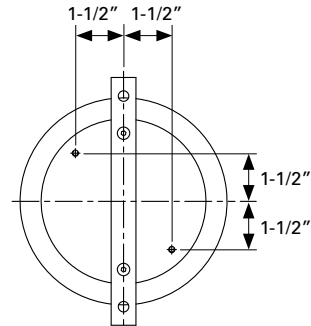
	DC		AC 50/60 Hz				
Voltage	24	48	110	120	220	240	254
Peak Current							
Consumption (mA)	320	170	250	275	120	135	150
Effective Intensity	29	29	32	39	32	39	44
Tube Energy	5	5	6	7	6	7	8

Lens Color	Multiplying factor for colored lenses
Red	0.15
Blue	0.12
Amber	0.51
Green	0.49
Yellow	0.86

Strobes



VIEW ON BASE SHOWING
DIRECT MOUNTING HOLES



MEDC Series XB11 Strobes

Available features and options:

- NEMA 4x and 6, IP66 & 67
- Light weight, corrosion resistant
- 4-wire monitored connection
- Output 29 Candela

Lens Color: Red, Blue, Green, Yellow, Amber, Clear

Voltage: 24VDC, 110 VAC, 240 VAC

Certified Temperature: -67°F to +158°F (-55°C to +70°C)

Finish: Natural Black, Red, Blue, Yellow, Grey, White, Special Finish

Weight: 5.5 lb (2.5kg)

Material: Corrosion-free GRP

Approvals: UL, cUL for Class 1, Div 2, Groups C & D

Model Number	Finish	Order Code
XB11UL02406CNBNNNR	STRB,CLEAR LENS,24VDC,29CD,CLASS 1 DIV 2,RD	PX869174
XB11UL02406RNBNNNR	STRB,RED LENS,24VDC,29CD,CLASS 1 DIV 2,BLK	PX869190
XB11UL02406RNBNNNR	STRB,RED LENS,24VDC,29CD,CLASS 1 DIV 2,RD	PX869171
XB11UL11006ANBNNNR	STRB,AMBER LENS,110VAC,29CD,CLASS 1 DIV 2,RD	PX869176
XB11UL11006RNBNNNR	STRB,RED LENS,110VAC,29CD,CLASS 1 DIV 2,RD	PX869175

Additional configuration options available: Body & lens color, tag & duty labels, certification, lens guard, flash rate, mounting method, voltages 24 VDC, 110-254 VAC.

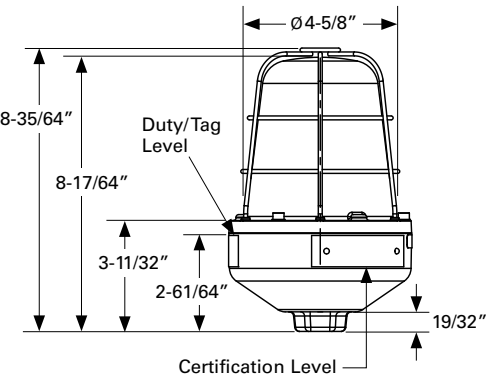
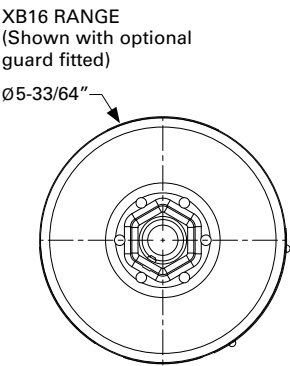
See the XB11 product specification sheet or contact the Eaton Customer Service Team.

	DC	AC 50/60 Hz	
Voltage	24	110	240
XB11 Tube Energy (Joules)	5	5	5
Peak Current Consumption (mA)	320	100	60
Effective Intensity	29	29	29

Lens Color	Multiplying factor for colored lenses
Red	0.15
Blue	0.12
Amber	0.51
Green	0.49
Yellow	0.86

Note: The cd figures are for a clear lens @ 1Hz flash rate.

Strobes



MEDC Series **XB16** Strobe Warning Lights

Available features and options:

- NEMA 4x and 6, IP66 & 67
- Light weight
- Listed strobes for use in harsh environments

Lens Color: Red, Blue, Green, Yellow, Amber, Clear

Voltage: 24 VDC, 48 VDC, 110 VAC, 120 VAC, 230 VAC, 240 VAC, 254 VAC

Certified Temperature: -67°F to +158°F (-55°C to +70°C)

Finish: Natural Black, Red, Blue, Yellow, Green, White, Special Finish

Weight: 2.2 lb (1.0kg)

Material: Corrosion-free GRP

Approvals: UL, cUL for Class 1, Div 2 Groups A, B, C, D

Model Number	Finish	Order Code
XB16UL02460RYNN	STRB, RED LENS, 24VDC, 285CD, CL 1 DIV 2, BLK	PX869410
XB16UL12060AYNN	STRB, AMBER LNS, UL 1971, 120VAC, 285CD, CL 1 DIV 2, BLK	PX869408
XB16US02460CYNR	STRB, CLEAR LENS, UL 1971, 24VDC, 285CD, CL 1 DIV 2, RD	PX29600042

Additional configuration options available: Body & lens color, tag & duty labels, certification, lens guard, flash rate, voltages 24-48 VDC, 110-254 VAC.

See the XB16 product specification sheet or contact the Eaton Customer Service Team.

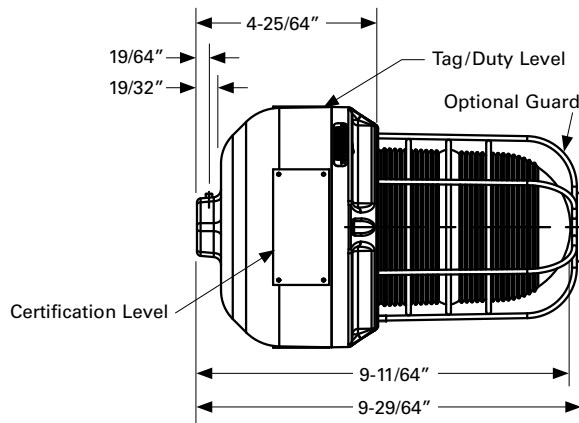
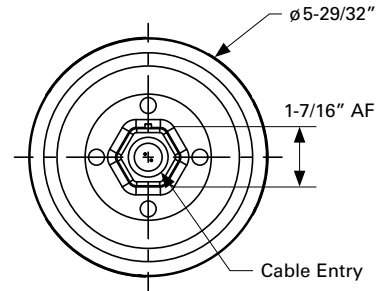
	DC		AC 50/60 Hz				
Voltage	24	48	110	120	220	240	254
XB16 Tube Energy (Joules)	10	10	10	10	10	10	10
Current (mA)	890	300	380	380	220	220	180
Effective candela (cd): 285 at 60 f.p.m.							
UL 1971 on axis output: 15 cd							

Lens Color	Multiplying factor for colored lenses
Red	0.15
Blue	0.12
Amber	0.51
Green	0.49
Yellow	0.86

Strobes



POLE MOUNT VERSION

**MEDC Series XB15 High Intensity Strobes****Available features and options:**

- NEMA 4x and 6, IP66 & 67
- 4-wire monitored connection
- 330 candela

Lens Color: Red, Blue, Green, Yellow, Amber, Clear**Voltage:** 24 VDC, 48 VDC, 110 VAC, 120 VAC, 230 VAC, 240 VAC, 254 VAC**Certified Temperature:** -67°F to +158°F (-55°C to +70°C)**Finish:** Red or Black**Weight:** 5-3/4 lbs/2.6 kg Pipe Mount, 6-1/2 lbs/3.0 kg Direct Mount**Material:** Corrosion-free GRP**Approvals:** UL, cUL for Class 1, Div 2, Groups A, B, C, D

Model Number	Finish	Order Code
XB15UL02406CWBNN	STRB. CLEAR LENS, 24VDC, 330CD, CLASS 1 DIV 2, RD	PX27600284
XB15UL02406RWBNN	STRB. RED LENS, 24VDC, 330CD, CLASS 1 DIV 2, BLK	PX869398
XB15UL02406RWPNN	STRB. RED LENS, PIPE MT, 24VDC, 330CD, CL 1 DIV 2, BLK	PX869396

Additional configuration options available: Body & lens color, relay initiate, flash rate, voltages 24-48 VDC, 110-254 VAC

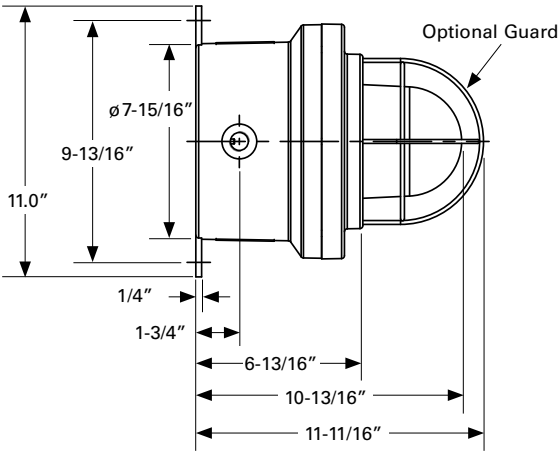
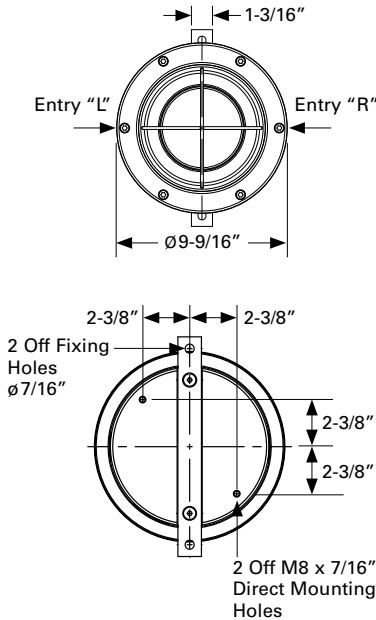
See the XB15 product specification sheet or contact the Eaton Customer Service Team.

	DC		AC 50/60 Hz				
Voltage	24	48	110	120	220	240	254
XB11 Tube Energy (Joules)	15	15	15	15	15	15	15
Effective Intensity	780	670	400	400	200	200	170

Effective candlepower (cd): 330 (Effective candlepower is the intensity that would appear to an observer if the light was burning steadily)

Lens Color	Multiplying factor for colored lenses
Red	0.15
Blue	0.12
Amber	0.51
Green	0.49
Yellow	0.86

Strobes



MEDC Series **XB12** Strobes

Available features and options:

- NEMA 4x and 6, IP66 & 67
- 4-wire monitored connection

Lens Color: Red, Blue, Green, Yellow, Amber, Clear

Voltage: 24 VDC

Certified Temperature: -67°F to +158°F (-55°C to +70°C)

Weight: 15.5 lb (7.0 kg)

Entries: Up to 2-1/2" NPT

Material: Corrosion-free GRP

Approvals: UL, cUL for Class 1, Div 2, Groups C & D

Model Number	Finish	Order Code
XB12UL02406CNBNNNR	STRB, CLEAR LENS, 24VDC, 255CD, CLASS 1 DIV 2, RD	PX22600456

Additional configuration options available: Body & lens color, tag & duty labels, lens guard, flash rate, certification, mounting method voltages 24 VDC, 110-254 VAC.

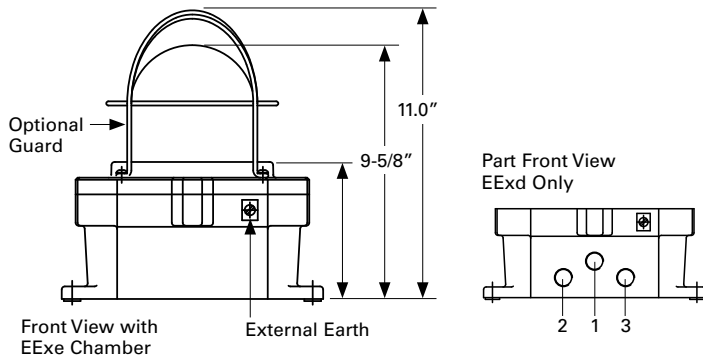
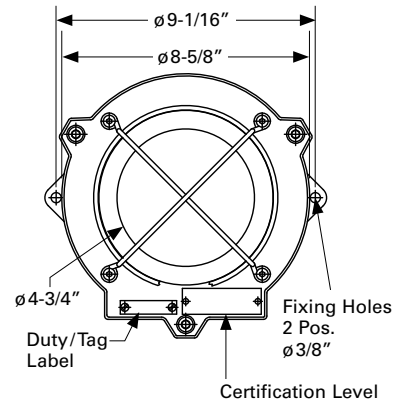
See the XB12 product specification sheet or contact the Eaton Customer Service Team.

	DC	AC 50/60 Hz	
Voltage	24	110	240
XB12 Tube Energy (Joules)	21	21	21
Peak Current Consumption (mA)	1400	350	185
Effective Intensity	355	355	355

Lens Color	Multiplying factor for colored lenses
Red	0.15
Blue	0.12
Amber	0.51
Green	0.49
Yellow	0.86

Note: The cd figures are for a clear lens @ 1Hz flash rate.

Strobes

MEDC Series **XB4** Strobes

Available features and options:

- NEMA 4x and 6, IP66 & 67
- 4-wire monitored connection

Lens Color: Red, Blue, Green, Yellow, Amber, Clear

Voltage: 24VDC, 110 VAC, 240 VAC

Certified Temperature: -67°F to +158°F (-55°C to +70°C)

Finish: Red

Weight: LM25: 14.5 lb (6.6 kg); Stainless Steel: add 18.5 lb (8.5 kg)

Entries: Up to 3 x 1/2" or 3/4" NPT

Material: Alloy or Stainless Steel

Approvals: UL, cUL for Class 1, Div 1, Groups C & D

Model Number	Finish	Order Code
XB4ULB8D2E3E06ANCN1R	STRB, CLEAR LENS, 24VDC, 355CD, CL 1 DIV 1, RD	PX18800386
XB4ULB8D2E3E06ANRN1R	STRB, RED LENS, 24VDC, 355CD, CL 1 DIV 1, RD	PX869121

Additional configuration options available: Body & lens color, tag & duty labels, lens guard, flash rate, certification, voltages 24 VDC, 110 VAC 240 VAC.

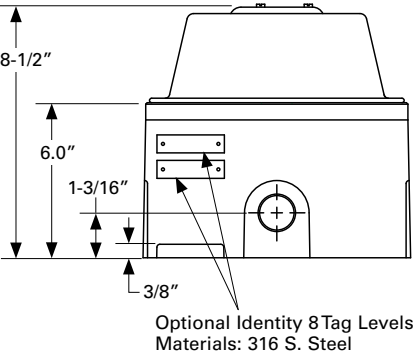
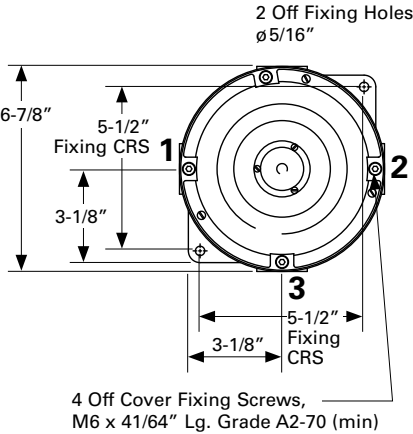
See the XB4 product specification sheet or contact the Eaton Customer Service Team.

	DC	AC 50/60 Hz	
Voltage	24	110	240
XB4 Tube Energy (Joules)	21	21	21
Peak Current Consumption (mA)	1400	350	185
Effective Intensity	355	355	355

Lens Color	Multiplying factor for colored lenses
Red	0.15
Blue	0.12
Amber	0.51
Green	0.49
Yellow	0.86

Note: The cd figures are for a clear lens @ 1Hz flash rate.

Horns



MEDC Series **DB1** Horns

Available features and options:

- Light weight, flameproof horns
- NEMA 4x and IP66
- 4-wire monitored connection
- 27 output tones, user selectable

Finish Color: Red (Gray and special also available)

Voltage: 12 VDC, 24 VDC, 48 VDC, 110 VDC

Certified Temperature: -13°F to +158°F (-25°C to +70°C)

Weight: DB1P 7.7 lb (3.5 kg); DB1HP 12.3 lb (5.6 kg)

Material: LM25 corrosion resistant alloy with stainless steel cover screws. ABS flare.

Approvals: UL, cUL for Class 1, Div 1, Groups C & D
NFPA 72 Compliant

Model Number	Finish	Order Code
DB1HPULA024D1D2NNNR	MULTITONE, 24VDC, 100dBA, CL 1 DIV 1, RD	PX869115
DB1PULA024D1D2NNNR	MULTITONE, 24VDC, 93dBA, CL 1 DIV 1, RD	PX869111

Additional configuration options available: Body Color, tag & duty labels, certification, voltages 12, 24, 48 VDC, 110 VAC.
See the DB1 product specification sheet or contact the Eaton Customer Service Team.

Max Sound Levels: DB1(P) = 93 ± 3dB(A) (86 ± 3dB(A) for 12V DB1).

DB1H(P) = 100 ± 3dB(A) @ 10 feet.

Note: Sound level is dependent upon the tone selection.

Labels: Duty and Tag labels optional

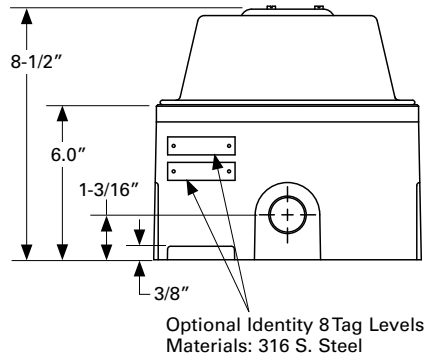
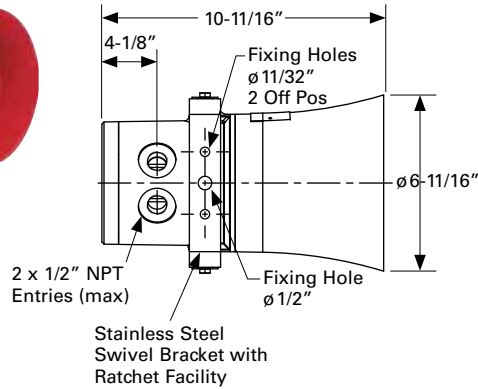
Entries: Up to 3 x 1/2" or 3/4" NPT

Terminals: Suitable to accept up to 12AWG conductor size

Tone Selection: 27 Tones

1	Alt Tones 800/970 Hz at 1/4 sec.	15	554 Hz for 0.1S/440 Hz for 0.1S
2	Sweeping 800/970 Hz at 7 Hz	16	Int 660 Hz 150 mS on 150 mS off
3	Sweeping 800/970 Hz at 1 Hz	17	Int 660 Hz 1.8 sec. on 1.8 sec. off
4	Continuous at 2850 Hz	18	Int 660 Hz 6.5 sec. on 13 sec. off
5	Sweeping 2400-2850 Hz at 7 Hz	19	Continuous 660 Hz
6	Sweeping 2400-2850 Hz at 1 Hz	20	Alt 554/440 Hz at 1 Hz
7	Slow Whoop	21	Int 660 Hz at 7/8 Hz
8	Sweep 1200-500 Hz at 1 Hz	22	Int 2850 Hz 150 mS on 100 mS off
9	Alt Tones 2400/2850 Hz at 2 Hz	23	Sweep 800-970 Hz at 50 Hz
10	Int Tones of 970 Hz at 1 Hz	24	Sweep 2400-2850 Hz at 50 Hz
11	Alt Tones 800/970 Hz at 7/8 Hz	25	3x970 Hz pulses 0.5 off, 1.5 off
12	Int Tone at 2850 Hz at 1 Hz	26	3x2850z pulses 0.5 on/0.5 off, 1.5 off
13	970 Hz at 1/4 sec. on 1 sec. off	27	Int 3100 Hz 0.3 sec. on 0.7 sec. off
14	Continuous at 970 Hz		

Horns



MEDC Series DB3 Horns

Available features and options:

- Glass Reinforced Polyester (GRP) corrosion free flamepaths
- NEMA 4x & 6, IP66 & 67
- Integral volume control
- Up to 108dBA output @ 10 ft
- 27 output tones, user selectable

Finish: Natural Black, Red, Special Finish

Mounting: Stainless steel bracket with ratchet facility

Voltage: Up to 48 VDC, Up to 254 VAC

Certified Temperature: -67°F to +158°F (-55°C to +70°C)

Entries: Up to 2 x 1/2" NPT

Weight: 11 lb (5.0 kg)

Approvals: UL, ULC for Class 1, Div 2, Groups A, B, C, D; Class II, Div 2, Groups F & G

Model Number	Finish	Order Code
DB3UL048N2CNRZ	MULTITONE, 24VDC, 108dBA, CL 1 DIV 2, RD	PX869131
DB3UL110N2CNRZ	MULTITONE, 110VAC, 108dBA, CL 1 DIV 2, RD	PX869135

Additional configuration options available: Body Color, tag & duty labels, end of line resistor, certification, voltages 12-48 VDC, 110-254 VAC. See the DB3 product specification sheet or contact the Eaton Customer Service Team.

Volume Control

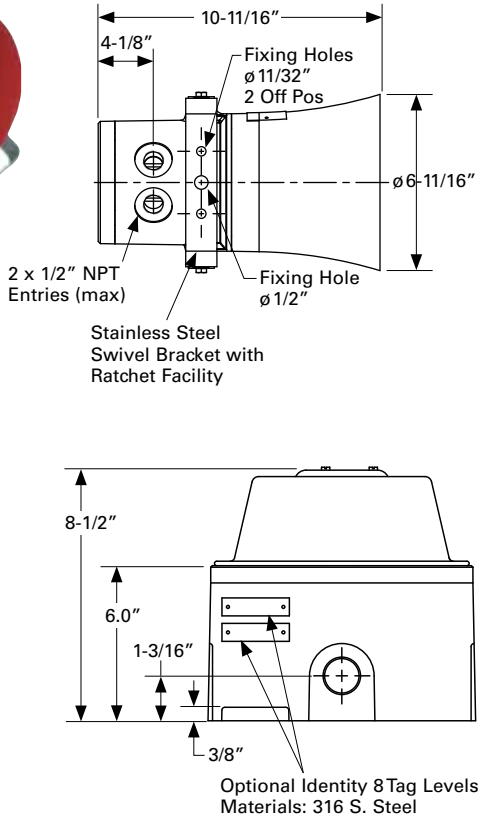
Nominal Output (dBA)*	Input Current (mA)
83	50
95	100
98	150
101	200
102	250
104	300
105	350

*Output measured with 24V input voltage.
Tone set to 970 Hz continuous.

Current Consumptions

V	I
12 VDC	760 mA
24 VDC	380 mA
48 VDC	190 mA
110 VAC	135 mA
120 VAC	124 mA
220 VAC	68 mA
230 VAC	65 mA
240 VAC	62 mA
254 VAC	59 mA

Speakers



MEDC Series DB4 Speakers

Available features and options:

- Corrosion resistant GRP
- NEMA 4x and 6, IP66 & 67
- Integral volume control
- 109dBA at 25 watts @ 10 ft
- 8, 15, and 25 watt versions
- Power tapings, via integral transformer

Color: Red

Mounting: Bracket with ratchet facility

Power: 8 watts, 15 watts, 25 watts

Certified Temperature: -67°F to +158°F (-55°C to +70°C)

Entries: Up to 2 x 1/2" NPT

Weight: 11 lbs (5.0 kg)

Approvals: UL for Class 1, Div 2, Groups A, B, C, D

Model Number	Finish	Order Code
DB415ULXN2CRZ	SPKR, 70 VRMS, 15W TRANSFORMER, CL 1,DIV 2, RD	PX19900177
DB425ULXN2CRZ	SPKR, 70 VRMS, 25W TRANSFORMER, CL 1 DIV 2, RD	PX19900178

Additional configuration options available: Body Color, tag & duty labels, transformer, certification, power 25W, 15W, 8W.

See the DB4 product specification sheet or contact the Eaton Customer Service Team.

Note: For fire system applications, a transformer and 1.5 capacitor is required on all DB4 products and should be noted on your order.

Transformer Trappings	Power			
	25W*	20W*	15W*	8W*
1:2	25.0	20.0	15.0	8.0
2:3	12.5	10.0	7.5	4.0
3:4	6.0	6.0	5.0	2.0
1:3	4.0	5.0	4.0	1.5
2:4	2.0	2.0	2.0	0.7
1:4	1.0	1.0	0.8	0.4

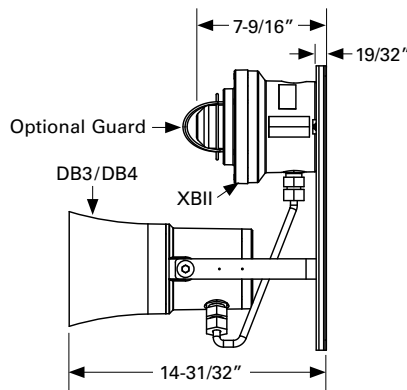
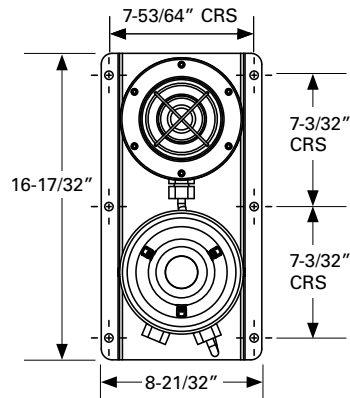
* Include blocking capacitor for DC supervision of field wiring.

Transformer Options:

- i) Loop in/Loop out: (4 x 2) terminal tap change (8 terminals)
- ii) Optional Tapping: 4 terminal tap change with 2 terminals (5 & 6) directly connected to driver (8 ohms).

Frequency Range: 400Hz to 8kHz

Horns



MEDC Series Combination Units

Available features and options:

- IP66 & 67
- Strobe available as Xenon, filament, fluorescent or LED
- Sounder: Up to 115dBA output at 1 meter

Lens Color: Red, Amber, Clear

Voltage: 24 VDC, 110 VAC, 240 VAC

Certified Temperature: -67°F to +158°F (-55°C to +70°C)

Finish: Natural Black, Red

Material: LM25

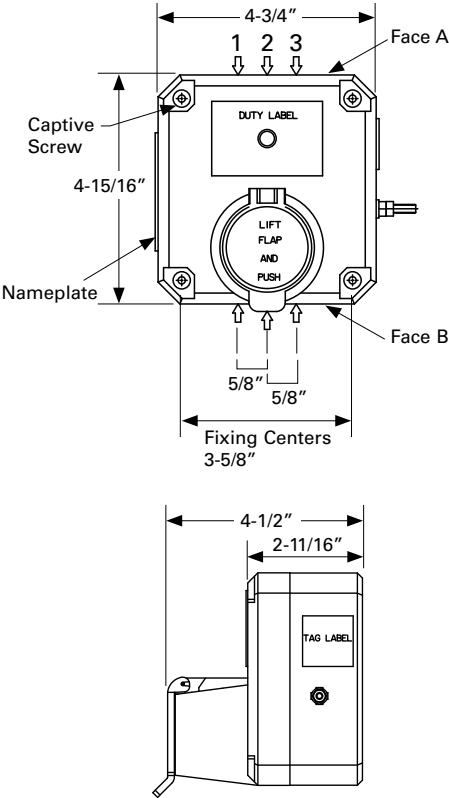
Approvals: UL, cUL for Class 1 Div 1, Groups C & D, (XB11/DB3)
cUL for Class 1, Div 2 (XB11/DB4)

Model Number	Finish	Order Code
XB11/DB3 UL 110V RED/RED	MULTITONE STRB, RED LENS, 110VAC, CL 1 DIV 2, RD	PX869210
XB11/DB3 UL 24VDC CLEAR/RED	MULTITONE STRB, CLEAR LENS, 24VDC, CL 1 DIV 2, RD (CN109209-002)	PX62500274
DB3/XB11UL 24V RED/RED	MULTITONE STRB, RED LENS, 24VDC, CL 1 DIV 2, RD	PX869205
XB11/DB425 UL X(70) CLEAR RED	SPKR STRB, CLR LENS, 70 VRMS, 25W TRANS, CL 1 DIV 2, RD (CN109209-001)	PX62500284
XB11/DB425 UL X(70) RED RED	SPKR STRB, RED LENS, 70 VRMS, 25W TRANS, CL 1 DIV 2, RD	PX62500283

Additional configuration options available.

See the Combo Unit product specification sheet or contact the Eaton Customer Service Team.

Call Points



MEDC Series BG/PB Call Points

Available features and options:

- Manual Fire Alarm Call Points designed for hazardous locations
- NEMA 4x & 6, IP66 & 67
- In-line and end-of-line resistors fitted
- Optional LED to indicate operation
- Glass Reinforced Polyester (GRP)

Color: Red, Blue, Yellow

Certified Temperature: -67°F to +158°F (-55°C to +70°C)

Weight: 15.5 lb (7.0 kg)

Entries: Up to 4 entries 1/2" NPT

Weight: 2.6 lb (1.2 kg) varies with model & entries

Approvals: UL for Class 1, Div 2, Groups A, B, C, D, Class 1 Zone 2 and Class 2, Div 2, Groups F&G, CSA

Model Number	Finish	Order Code
PBUL4C6C4DSN7R	PUSH BUTTON, CL 1 DIV 2, FIRE LABEL, RD	PX28000043

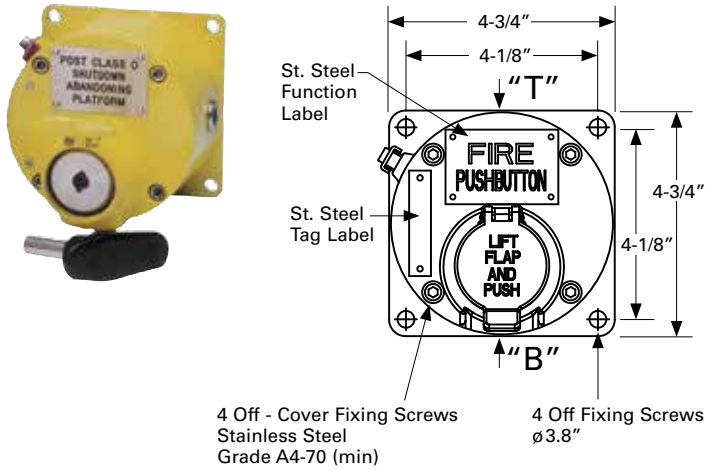
Additional configuration options available: Body color, LED, series & EOL resistors, diode, earth continuity (not UL), turn & push, self reset, tag & duty labels.

See the product specification sheet or contact the Eaton Customer Service Team.

Terminals: Will accept up to 14AWG cable

Material: Corrosion-free GRP

Call Points



MEDC Series **SM87/PBL** Call Points

Available features and options:

- Call Point designed for arduous environmental conditions
- Easy to install and maintain
- NEMA 4x and 6, IP66 & 67

Color: Red, Natural Black, Blue, Yellow, Grey, Yellow/Black Stripes

Certified Temperature: -13°F to 131°F (-11°C to 55°F)

Entries: Up to 4 entries 1/2" or 3/4" NPT

Weight: 5.5 lb (2.5 kg) varies with model & entries

Approvals: UL, CSA certified, Class 1, Div 1, Group C & D, Class 1, Zone 1

Model Number	Finish	Order Code
SM87PBLAUL3T3B3NN	PUSH BUTTON, CL 1 DIV 1, FIRE LABEL, RD	PX36200102

Additional configuration options available: Body color, LED, series & EOL resistors, diode, earth continuity (not UL), turn & push, self reset, tag & duty labels.

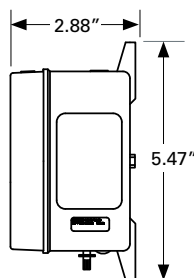
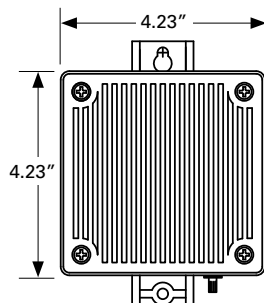
See the product specification sheet or contact the Eaton Customer Service Team.

Terminals:	Will accept up to 14AWG cable
Material:	LM25 TF Marine Grade Alloy
Resistors:	470R minimum
Switch Rating:	2 amp, 2 pole c/o, wired to terminals



Telephone Signaling

Telephone Alerts

Series **UTA** Universal Telephone Alerts

Available features and options:

- Loud attention getting electronic ringers
- Designed for use in noisy locations or for wide area coverage
- Operates off the telephone ringer voltage
- Low current draw and REN
- Tamper resistant volume control
- Dip switch selectable

Color: Gray

Four selectable sound patterns: Horn, Bell, Vibrating Chime, Single Chime

High output 109 dB piezo speaker

Approvals: UL Standard 1950, CSA, IC, DOC
Multiple voltage activation

Model Number	Color	Order Code	Power Requirements
UTA-1	Gray	6338	24 VDC, 24 VAC, 48 VDC, 90 VRMS/20-30Hz
w/ Strobe UTA-WH-VPS	Gray	6348	115 VAC power for strobe and piezo operation telephone ring trigger for activation via 24 VDC, 24 VAC, 48 VDC, 90 VRMS/20-30Hz

Tone Volume Range and Description

	UTA-1	UTA-WH	Description
Horn	73-108 dB	82-109 dB	Broadband Horn
Bell	61-102 dB	76-104 dB	1560 Hz Modulated (0.07 Sec. ON/Repeat)
Vibrating Chime	57-100 dB	68-94 dB	700 Hz (1.0 Sec. Decay/Repeat)
Single Chime	57-97 dB	68-94 dB	700 Hz (1.0 Sec. Decay)

Model Number	Tones	dB @ 3 Feet (1 meter)				Ring Voltage Current Draw mA			REN
		48 VDC	24 VDC	24 VAC	90 VRMS 20 Hz	48 VDC	24 VDC	24 VAC	90 VRMS 20 Hz
UTA-1	Horn	107	108	105	104	26	30	46	1.6
	Bell	100	100	102	100	10	9	35	1.4
	Vibrating Chime	94	96	99	97	7	6	29	1.25
	Single Chime	94	96	100	96	6	6	34	1.25
UTA-WH-VPS	Horn	109	109	109	109	3	2.5	4	0.5
	Bell	104	104	104	104	3	2.5	4	0.5
	Vibrating Chime	94	94	94	94	3	2.5	4	0.5
	Single Chime	94	94	94	94	3	2.5	4	0.5
Voltage Range:						36-60	20-30	20-30	40-130

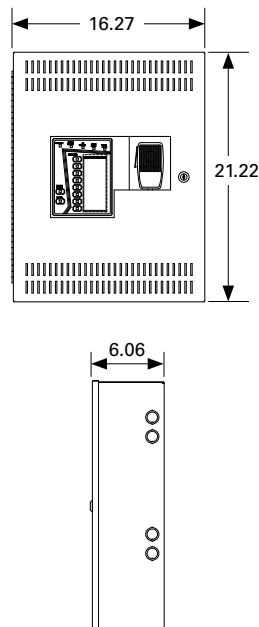
Note: Reference pages 58-65 for additional mounting information.



Voice Evacuation/ Mass Notification

Providing advanced technological voice evacuation/emergency communications systems, for delivering real-time information to people in a building or outdoor areas.

- Indoor Communications System & Accessories
- Wide-Area High-Power Speaker Arrays

Voice Evacuation System**Series SAFEPATH SP40S Voice Evacuation System****Available features and options:**

- Multi-Function Supervised Paging, Messaging, Background Music Delivery and Emergency Voice Evacuation System
- 24 VDC battery backup
- On-board digital voice messaging system with 8 standard messages
- Hand-held microphone and power supply/battery charger
- Expandable to 5280 watts
- Contact closure message activation
- 40 Watts supervised audio power
- Compatible with all Wheelock power supplies, speakers, strobes, clusters, and high power speaker arrays

Approvals: UL, CSMF, MEA, FM, Tested to CAN/ULC-S527, 2nd Edition*

*Evaluated by FM Approvals, a Standards Council of Canada (SCC) accredited testing and certification organization, in accordance with Canadian Codes and Standards

Model Number	Order Code	Description
SP40S	9929	Single channel system with 40 watts of supervised audio power and 2 amps of supervised 24 VDC synchronized strobe power and 8 standard messages. (Batteries not included, 2 required.) Red Enclosure.
SP40S-B	9935	Same as above but with black enclosure
AM-SP40S-SMK	9937	SP40S After Market 8 Message Standard Message Kit
AM-SP40S-PMK	9938	SP40S After Market 8 Message Programmed Message Kit
SP-COA	9908	C.O. Port Adapter for the SP40S Recommended 24 VDC Power Supply is Wheelock RPS-2406 (Order Code 3770)

Audio/Technical Specifications

Switch mode, Class D amplifier (40 Watts)	
Speaker Outputs	25V or 70.7V power limited
Frequency Response	Voice: 275 Hz - 6.5 kHz BGM: 100 Hz - 15 kHz Meets UL Voice Evacuation Requirements of 800 - 2800 Hz
Signal to Noise Ratio	Better than 65 dB
Dynamic Range	Better than 65 dB
Total Harmonic Distortion	Less than 2%
Stand by Current Draw	130 mA
Alarm Current Draw	4.7 amps

Microphone & Expansion Module



Model Number	Order Code	Description
SPRM	8996	Remote Microphone for use with the SP40S, SP40/2, SPB-320, SPB-160, SPB-80/4 or SP4-RMX; red plate
SPRM-GP	9927	General Paging Microphone for use with the SPB-320, SPB-160, or SPB-80/4; black plate

- The SP4-RMX will provide the capability of connecting up to (3) three Remote Microphone Stations (SPRM)
- When connected to the SP40S or SP40/2, two SP4-RMX units can be cascaded together to provide up to six remote microphones
- Can accept a line level input coupled with a contact closure for broadcasting of other information
- OSHA 1910.165, ADA and UFC compliant

Enclosure:

Dimensions: 13"H x 7.6"W x 2.15"D
Color: Black
Wall mountable

Approvals: UL, Tested to CAN/ULC-S527, 2nd Edition*

*Evaluated by FM Approvals, a Standards Council of Canada (SCC) accredited testing and certification organization, in accordance with Canadian Codes and Standards

Series SAFEPATH Remote Microphone and Expansion Module

Available features and options:

SPRM

- Remote Microphone for use with the SAFEPATH Facility Communications System SP40S or SP4-RMX.
- Can be mounted up to 2,000 feet away from the SP40S

SP4-RMX

- Remote Microphone Expansion Module expands one microphone from the SP40S or up to 3 remote microphones
- Provides for an auxiliary input for connection of an external VoiceLink message repeater for additional messages

Model Number	Order Code	Description
SP4-RMX	9919	Remote Microphone Expansion Module

- Supervised hand-held push-to-talk microphone
- Key required to enable remote microphone use
- Wiring terminals for quick connect/disconnect accepting 12-22 AWG
- Individual front panel LED indication for System Normal, System Trouble and Alarm
- Remote microphone usage disengages background music and general paging
- 6-Wire connection to the SP40S, SP40/2 or SP4-RMX
- Mounting plate is red and measures 8-3/4" x 5-1/4", fits into a 4-gang back box
- All output circuitry is Power Limited

Input current: Standby: 23mA, Alarm: 38mA

Approvals: UL, CSFM, Tested to CAN/ULC-S527, 2nd Edition*

Speaker Audio Splitter



Series SAFEPATH Speaker Audio Splitter

Available features and options:

- Supervised 2-Zone Class A or 4-Zone Class B Speaker Audio Splitter for the SP40S or Audio Booster
- Enables a single supervised speaker audio output to drive up to two Class A supervised speaker audio outputs or four Class B supervised speaker audio outputs
- 2 class A or 4 Class B
- Removable wiring terminals for quick connect/disconnect accepting 12–22 AWG
- LEDs Power and Trouble LEDs, Individual zone short and open LED indication
- Space provided to allow for naming of the zones
- Standby and Alarm current at 24VDC: 15mA

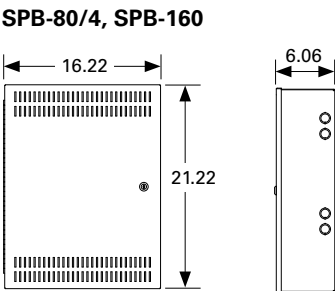
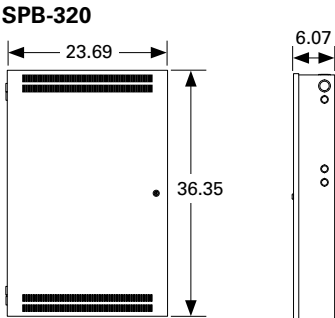
Approvals: UL, CSFM, MEA, Tested to CAN/ULC-S527, 2nd Edition*

*Evaluated by FM Approvals, a Standards Council of Canada (SCC) accredited testing and certification organization, in accordance with Canadian Codes and Standards

Model Number	Order Code	Description
SP4Z-A/B	9900	Supervised 2-Zone Class A or 4-Zone Class B Speaker Audio Splitter for the SP40S, SP40/2 or Audio Boosters
SPMB4Z	9907	Mounting Bracket for the SP4Z-A/B is required when used with the Audio Boosters

Note: The Speaker Splitter-Mounting Bracket (SPMB4Z) is required when the Speaker Splitter is used in Audio Boosters. The SPMB4Z can support two splitters.

Audio Boosters



Model Number	Order Code	Description
SPB-320	9918	320 Watt Supervised (four 80 watt circuits)
SPB-160	8989	160 Watt Supervised (two 80 watt circuits), red enclosure
SPB-80/4	8988	80 Watt Supervised with 4 Amps of Supervised and Synchronized Strobe Power (two 2 Amp circuits), red enclosure

Series SAFE[®]PATH **SPB** Audio Boosters

Available features and options:

- Designed to provide for additional supervised audio power for live voice, pre-recorded messages or background music (BGM)
- Fully supervised patent pending circuitry is always in effect
- The SPB-320, SPB-160 and the SPB-80/4 easily connects to the Wheelock SP40S
- Multiple SPB-320, SPB-160 and SPB-80/4 Audio Boosters can be interconnected to accommodate large installations

Approvals: UL Standard 864, 9th edition; CSFM, MEA, Tested to CAN/ULC-S527, 2nd Edition*

Compliance: OSHA 1910.165, ADA, UFC

Input from SP40S: 70V or 25V

Input from SP4-RMX: 1 Volt input from

80 watt Speaker output circuits (SPB-320 has four, SPB-160 has two and the SPB-80/4 has one and two 2-amp strobe circuits)

Audio Speaker Outputs: 70V or 25V

*Evaluated by FM Approvals, a Standards Council of Canada (SCC) accredited testing and certification organization, in accordance with Canadian Codes and Standards

Technical Specifications

120VAC, 3.8A, 60 Hz input	
SP40SE Models 240 VAC, 2.5A, 50-60 Hz	
Standby current draw	120mA, per amplifier board
Alarm current draw	9 Amps, per amplifier board
SPB-80/4 and SPB-160 have one amplifier board	
SPB-320 has two amplifier boards	
System Frequency Response	Voice: 400 Hz - 6.5 kHz BGM: 275 Hz - 15 kHz
Removable quick connect/disconnect terminals, accept 12 - 22 AWG	
Multiple LED's for easy indication of system diagnostic conditions	
Signal to Noise Ratio	> 70 dB
Dynamic Range	> 65 dB
Total Harmonic Distortion	2%

Paging Splitter



Series SAFEPATH Paging Splitter

Available features and options:

- Addressable speaker zone splitter
- Mounts inside the SP40S, SP40/2, SPB-80/4, SPB-160 or SPB-320
- Operates on 24 VDC, supplied by the SP40S, SP40/2, SPB-80/4, SPB-160, SPB-320
- Handles 40 watts of supervised audio per zone

Approvals: UL Standard 864, 9th edition; CSFM; MEA; Tested to CAN/ULC-S527, 2nd Edition*

*Evaluated by FM Approvals, a Standards Council of Canada (SCC) accredited testing and certification organization, in accordance with Canadian Codes and Standards

Model Number	Order Code	Description
SP4Z-APS	9920	Addressable Paging Splitter

Note: Reference pages 58-65 for additional mounting information.

Telephone Zone Controller



Model Number	Order Code	Description
SP4-TZC	9923	SP4-TZC Programming Cable

The combination of 1 SP4-TZC (controller) and up to 17 SP4-APS (splitters) can provide:

Class B
4 zones per splitter
Up to 68 individual zones (17 splitters)
17 fixed zones (groups of 4)
9 logical zones
Class A
2 zones per splitter
Up to 34 individual zones (17 splitters)
17 fixed zones (groups of 2)
9 logical zones

Series SAFEPATH Telephone Zone Controller

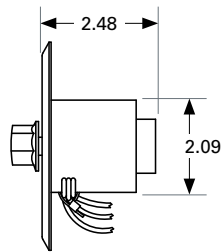
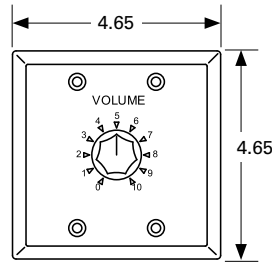
Available features and options:

- Designed for the ability to access individual or multiple speaker zones throughout the SP40S System via telephone
- Custom user programmable
- All call or selected zone(s) telephone paging
- Background music (BGM) zone(s) selectable
- Telephone input and background music (BGM) input

Approvals: Tested to CAN/ULC-S527, 2nd Edition*

*Evaluated by FM Approvals, a Standards Council of Canada (SCC) accredited testing and certification organization, in accordance with Canadian Codes and Standards

Enclosure:
Dimensions: 13"H x 7.6"W x 2.15"D
Color: Black
Wall mountable
Requires 24 VDC, model RPS-2406
Allows selections of speaker zones via a telephone keypad (DTMF tones)
One SP4-TZC (controller) can control up to 17 SP4-APS (splitters)
Telephone page input connects to stand alone telephone, unused CO port, page port
USB connection for logical zone grouping and BGM programming (supports Windows 2000 and Windows XP)
Up to 9 logical zones, (a logical zone is a user selected group of up to 5 zones, individual or fixed)
RS-485 digital control to the SP4-APS speaker splitters
Connects to the SP40S 2 via the BGM input

Volume Control**Series SAFEPATH Volume Control****Available features and options:**

- Allows manual volume setting for telephone paging and background music for a specific speaker or speaker zone
- Supervised volume control for use with UL Listed Life Safety Applications
- Operates in Class B or Class A wiring (for Class A, the SP4-APS is required)
- Mounts to a double gang, 3-1/2" deep back box or 4" square and 1-1/2" deep box with a 1-1/2" extension ring and a double gang mud ring
- Stainless steel mounting plate with a black knob

Approvals: UL Standard 864; CSFM listed for use with the SP40S, SP40/2 or SPB Audio Boosters; Tested to CAN/ULC-S527, 2nd Edition*

Compliance: OSHA 1910.165, ADA

*Evaluated by FM Approvals, a Standards Council of Canada (SCC) accredited testing and certification organization, in accordance with Canadian Codes and Standards

Model Number	Order Code	Description
SP-SVC	9926	Supervised Volume Control for use with the SAFEPATH® system

Audio Power Input	Can handle up to 35 watts of 70.7 volt audio power input
Adjustment Settings	0 – 10, in 3dB increments
Wiring	Operates in Class B or Class A wiring (for Class A, the SP4-APS is required)
Back Box	Requires a double gang, 3½" deep back box or 4" square and 1-1/2" deep box with a 1-1/2" extension ring
Maximum RMS Current	10.0mA

Operating Console



Series SAFEPATH Local Operating Console

Available features and options:

- Designed for indoor use with the SAFEPATH panels for mass notification applications
- Contains SAFEPATH SPRM Remote Microphone and black push-on/push-off buttons.
- All message wiring is pre-wired to a terminal block
- Internal terminal block accepts up to 16 AWG wiring for field wiring
- All output circuitry is power limited
- SP4-LOC is available in flush and surface models
- Optional HVAC Emergency Shutoff mushroom push button kit
- Can be mounted up to 2,000 feet away from SAFEPATH panel
- Remote microphone usage disengages background music and general paging

Approvals: Tested to CAN/ULC-S527, 2nd Edition*

*Evaluated by FM Approvals, a Standards Council of Canada (SCC) accredited testing and certification organization, in accordance with Canadian Codes and Standards

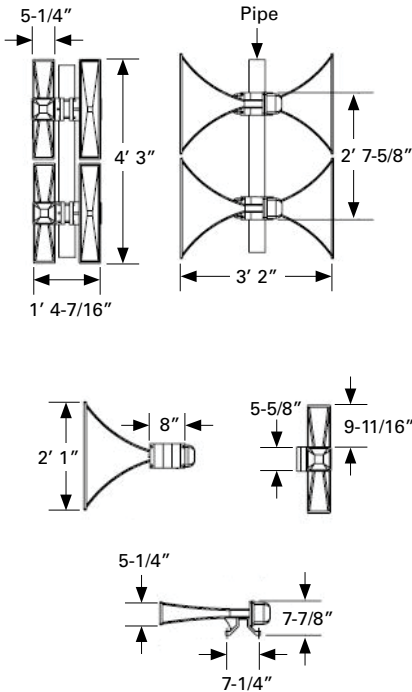
Model Number	Order Code	Description
SP4-LOC-SB	4120	Surface Mount Local Operator Console
SP4-LOC-FB	4121	Flush Mount Local Operator Console
SP4-LOC-KIT	4122	HVAC Emergency Shutoff Switch Kit*
*Currently not UL Listed		

Wide-Area High-Power Speaker Arrays

A tall, silver metal pole stands vertically against a clear blue sky. At the top of the pole, four rectangular speaker arrays are mounted in a 2x2 grid. The arrays are silver and have a flared, horn-like shape. In the foreground, there are green trees and foliage, some of which are out of focus. The overall scene is bright and clear.

Designed to meet Life Safety requirements, WAVES High-Power Speaker Arrays (HPSA-7100-R Series) provide crisp, intelligible voice, tone and siren warnings. The HPSA can be integrated with voice-capable FACPs, SAFEPATH, SAFEPATH MNS and other audio sources to expand emergency communications to large outdoor areas.

Speaker Arrays



Series **HPSA** High-Power Speaker Arrays

Available features and options:

- Integrated with a facility's audio source (panel agnostic)
- Highly intelligible live voice and tone announcements
- Energy- and cost-efficient advanced amplification system enables lower current draw and increased battery life, requiring fewer speakers and significantly less power for a substantially larger range (see specifications)
- Continuous emergency operation regardless of primary power outage
- Omnidirectional and directional speaker coverage options
- Intelligent battery charger maintains batteries at optimal charge state and supervises the batteries for multiple fault conditions
- Six discrete (Form C) trouble signals include: No AC, No Battery, Low Battery, Door Open (tamper), Amplifier Fault, Driver Fault
- Multiple HPSAs can be controlled by one source

Approvals: CE, TÜV

Model Number	Number of Horns	Watts	dB (C) @ 100' (30 m)①	Effective Range①: 180° Radius @ 70dB (C)	dB (C) @ 100' (30 m)①	Effective Range①: 360° Radius @ 70dB (C)	Height	Horn & Driver Kit Weight
HPSA-7102-R	2	200	110	1600' (480 m)	105	1200' (366 m)	25" (63.5 cm)	52 lbs (23.6 kg)
HPSA-7104-R	4	400	115	2400' (732 m)	110	1600' (480 m)	51" (129.5 cm)	104 lbs (47.2 kg)
HPSA-7106-R	6	600	119	3040' (927 m)	114	2240' (683 m)	77" (195.6 cm)	156 lbs (70.8 kg)
HPSA-7108-R	8	800	123	4160' (1268 m)	118	2880' (878 m)	103" (261.6 cm)	208 lbs (94.4 kg)

Accessories:

- Pedestal/Stand Kit: M37-00056
- Mounting options include HRNMT-100 and HRNMT-250
- Optional microphone for set-up and testing: HPSA-MIC
- 500 ft speaker wire kit: CAB-SPKR-KIT
- HPSA-7100-V-KIT – Required for all 100V and 70V applications

① Field testing was performed in accordance with ANSI/ASA S12.14-1992, reaffirmed September 11, 2007. Actual SPL performance will depend on parameters such as site design, topography, climate and foliage.

Designed to meet the most stringent Life Safety requirements, Eaton's HPSA-7100-R Series provides highly intelligible voice and tone announcements for Wide-Area Mass Notification. The HPSA-7100-R Series can be integrated with voice-capable Fire Alarm Control Panels (FACP) and SAFEPATH Systems.

External Interface

NAC input	PTT Activation. 9–40 VDC, 17 mA Max.
Dry contact input	PTT Activation (alternative to NAC Input). 250ms < 1 K Ohms.
Audio input	100 V_{RMS} , 70.7 V_{RMS} , 25 V_{RMS} or 1 V_{RMS} selectable (100 V_{RMS} and 70.7 V_{RMS} require model HPSA-7100-V-KIT, which is sold separately)
Trouble outputs	Form C, dry contact. 2 Amps., 30VDC (resistive). Max. Trouble Signals (6) provided: AC, No Battery, Low Battery, Tamper, Amplifier Fault and Driver Fault.

General Specifications

Electronic cabinet dimensions	36" W x 48" H (60" with pedestals) x 12" D / 91.4 x 121.9 (152.4 with pedestals) x 30.5 cm
Electronic cabinet weight	110 lbs (not including batteries) / 49.9 kg; Total weight with batteries: 322 lbs / 146 kg
Horn dimensions	3' 2" W x 2' 1" H x 1' 4 7/16" D / 96.52 cm x 63.5 cm x 41.91 cm (2 horns with drivers, omni-directional)
Horn weight	52 lbs for each horn and driver kit (pair) / 23.6 kg
Horn material	Special aluminum alloy horn construction provides long service life without material fatigue
Battery weight	53 lbs each / 24 kg
Speaker mounting/pipe pole ^①	Minimum 4.5" (11 cm) outside diameter (OD); Maximum 6" OD (15.25 cm)
Ground mount pedestal kit ^①	Model M37-00056 raises the cabinet 12" (30.5 cm) from the ground
Speaker cable kit ^①	Model CAB-SPKR-KIT, 500 ft (152 m) long; 16 AWG stranded, non-shielded, marine-rated
Speaker wire ^①	12–16 AWG stranded two-conductor jacketed cable. Non-shielded either twisted or non-twisted. UL/CSA/EU: approved for outdoor use
Wire size ratings	Speaker Lines: 12–16 AWG (limited to 14 AWG for connectors) AMB Lines: 12–22 AWG AC Mains: 10–16 AWG

Power (Including Standby)

Input voltage	120 to 240 VAC; 50 to 60 Hz Single-phase (Universal AC/Auto-switching)
Input current	3 Amps
Battery input voltage	40.8 - 55.4 VDC 48 Volts (nominal)
Operating voltage	~48 VDC
Standby time	72 hrs followed by 60 min continuous voice
Continuous signaling time	60 minutes (voice)
Battery charger	Universal AC Supply, 4 Amp maximum
Batteries	Four (4) deep cycle discharge AGM, SLA batteries. 65 AH each, connected in series

Amplifiers

Amplifier	Class D
Frequency response	300 Hz to 7.2 kHz (Driver, typical); 20 Hz to 20 kHz (Amp, typical)
Total harmonic distortion	0.1% THD+N Capable; 10% THD+N Max to achieve specified SPL levels
Efficiency	Greater than 90% at full load
Thermal protection	Yes
Short circuit protection	Yes, Auto Recovery
Driver impedance	11 Ohm (Typical)

Environment

Operating temperature	-40° F to 140° F (-40° C to +60° C)
Electronic cabinet rating	NEMA 4X, IP66, UL508 cabinet
Transient protection	Built-in lightning protection on mains, external interfaces, and speaker lines

^① Not included with the HPSA-7100-R series.

43T-G6-24-R	24	LHNR	10	RSSWP-2475W-FW	37
43T-G6-24-S	24	LHNRC	10	RSSWP-2575C-FW	37
43T-G6-115-R	24	LHNW	10	SHMP-R	33
43T-G6-115-S	24	LHNWC	10	SM87HXBUL024CN4L4RNNR	48
43T-G10-24-R	24	LHSR	11	SM87HXBUL024RN4L4RNNR	48
43T-G10-24-S	24	LHSRC	11	SM87HXBUL110AN3R3LNNR	48
43T-G10-115-R	24	LHSW	11	SM87PBLAUL3T3B3NN	59
43T-G10-115-S	24	LHSWC	11	SP4-LOC-FB	70
AH-24VPR	37	LLFHNR-AL	8	SP4-LOC-KIT	70
AM-SP40S-PMK	63	LLFHNR-CO	8	SP4-LOC-SB	70
AM-SP40S-SMK	63	LLFHNR-N	8	SP4-RMX	64
AMT-12/24-R	16	LLFHNW-AL	8	SP4-TZC	68
AMT-12/24-R-NYC	16	LLFHNW-CO	8	SP4Z-A/B	65
AMT-12/24-W	16	LLFHNW-N	8	SP4Z-APS	67
AMT-24MCW-FR	16	LLFHSR	9	SP40S	63
AMT-24MCW-FW	16	LLFHSR-AL	9	SP40S-B	63
AMT-24MCW-NW	16	LLFHSR-CO	9	SPB-80/4	66
ASWP-24MCCH-FR	37	LLFHSR-N	9	SPB-160	66
ASWP-24MCCH-FW	37	LLFHSW	9	SPB-320	66
ASWP-24MCWH-FR	37	LLFHSW-AL	9	SP-COA	63
ASWP-24MCWH-FW	37	LLFHSW-CO	9	SPMB4Z	65
ASWP-2475C-FR	37	LLFHSW-N	9	SPRM	64
ASWP-2475C-FW	37	LSPKR	27	SPRM-GP	64
ASWP-2475W-FR	37	LSPKR-ALA	28	SP-SVC	69
DB1HPULA024D1D2NNNR	54	LSPKRC	27	STH-15S	33
DB1PULA024D1D2NNNR	54	LSPKR-NA	28	STH-15SR	33
DB3UL048N2CNRZ	55	LSPKW	27	STR	21
DB3UL110N2CNRZ	55	LSPKW-ALA	28	STRC	21
DB3/XB11UL 24V	57	LSPKWC	27	STW	21
DB415ULXN2CRZ	56	LSPKW-NA	28	STWC	21
DB425ULXN2CRZ	56	LSPSTR	27	UTA-1	61
DSM-12/24-R	34	LSPSTRC	27	UTA-WH-VPS	61
E50-24MCW-FR	31	LSPSTW	27	WBB-R	37
E50-24MCW-FW	31	LSPSTWC	27	WBB-W	37
E50H-24MCW-FR	29	LSTR	18	WFFA-R	37
E50H-24MCW-FW	29	LSTR-ALA	20	WFFA-W	37
E50H-24MCWH-FR	29	LSTRC	18	WFP-R	37
E50H-24MCWH-FW	29	LSTR-NA	20	WFP-W	37
E50H-R	29	LSTW	18	WPBB-R	37
E50H-W	29	LSTW-ALA	20	WPBB-W	37
E50-R	31	LSTWC	18	WP-KIT	37
E50-W	31	LSTW-NA	20	WPSBB-R	37
E60-24MCC-FR	31	MB-G6-12-R	25	WPSBB-W	37
E60-24MCC-FW	31	MB-G6-12-S	25	XB4ULB8D2E3E06ANCN1R	53
E60H-24MCC-FR	29	MB-G6-24-R	25	XB4ULB8D2E3E06ANRN1R	53
E60H-24MCC-FW	29	MB-G6-24-S	25	XB11/DB3 UL 24VDC	57
E60H-24MCCH-FR	29	MB-G10-12-R	25	XB11/DB3 UL 110V	57
E60H-24MCCH-FW	29	MB-G10-12-S	25	XB11/DB425 UL X(70)	57
E60H-R	29	MB-G10-24-R	25	XB11UL02406CNBNNNR	49
E60H-W	29	MB-G10-24-S	25	XB11UL02406RNBNNNR	49
E60-R	31	MIZ-24S-R	17	XB11UL02406RNBNNNR	49
E60-W	31	MIZ-24S-W	17	XB11UL11006ANBNNNR	49
E70H-24MCW-FR	30	MT-12/24-R	15, 37	XB11UL11006RNBNNNR	49
E70H-24MCW-FW	30	MT-12/24-W	15	XB12UL02406CNBNNNR	52
E70H-24MCWH-FR	30	MT-24MCW-AR	15	XB15UL02406CWBNNR	51
E70H-24MCWH-FW	30	MT-24MCW-FR	15	XB15UL02406RWBNN	51
E70H-R	30	MT-24MCW-FW	15	XB15UL02406RWPN	51
E70H-W	30	MT-24MCW-NW	15	XB16UL02460RYNN	50
E90H-24MCC-FR	30	MT-121575W-FR	15	XB16UL12060AYNN	50
E90H-24MCC-FW	30	MT-121575W-FW	15	XB16US02460CYNR	50
E90H-24MCCH-FR	30	MT-121575W-NW	15		
E90H-24MCCH-FW	30	MT-241575W-FW	15		
E90H-R	30	MTWP-2474W-FR	37		
E90H-W	30	MTWP-2475W-FW	37		
ET-1010-R	37	PBUL4C6C4DSN7R	58		
ET-1010-W	37	RSS-24MCC-ALW	22		
ET-1080-R-ULC-D	32	RSS-24MCC-FR	22		
ET-1080-W-ULC-D	32	RSS-24MCC-FW	22		
HNR	12	RSS-24MCC-NW	22		
HNRC	12	RSS-24MCCH-FR	22		
HNW	12	RSS-24MCCH-FW	22		
HNWC	12	RSS-24MCW-ALR	22		
HPSA-7102-R	72	RSS-24MCW-ALW	22		
HPSA-7104-R	72	RSS-24MCW-AR	22		
HPSA-7106-R	72	RSS-24MCW-FR	22		
HPSA-7108-R	72	RSS-24MCW-FW	22		
HS4-24MCW-FR	14	RSS-24MCW-NR	22		
HS4-24MCW-FW	14	RSS-24MCW-NW	22		
HS-24-R	14	RSSP-24MCW-FR	23		
HS-24-W	14	RSSP-24MCW-FW	23		
HSR	13	RSSWP-24MCCH-FR	37		
HSRC	13	RSSWP-24MCCH-FW	37		
HSW	13	RSSWP-24MCWH-FR	37		
HSWC	13	RSSWP-24MCWH-FW	37		
IOB-R	37	RSSWP-2475C-FR	37		
IOB-W	37	RSSWP-2475W-FR	37		



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Publication No. CA001002EN
February 2015

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