

Wall Mount Horn Strobes



| | | | |
|-----------------------|-------|------------|--|
| 15/30/75/110cd | | Order Code | |
| NS-24MCW-FR | Red | 9404 | |
| NS-24MCW-FW | White | 9405 | |
| 1575cd | | | |
| NS-241575W-FR | Red | 7806 | |
| NS-241575W-FW | White | 7811 | |
| 1575cd | | | |
| NS-121575W-FR | Red | 7816 | |
| NS-121575W-FW | White | 7818 | |

| UL Max. Current | | 15cd | 30cd | 75cd | 110cd |
|-----------------|--------|-------|-------|-------|-------|
| High (95) dBA | 24 VDC | 0.074 | 0.107 | 0.184 | 0.244 |
| Low (90) dBA | 24 VDC | 0.066 | 0.101 | 0.177 | 0.232 |

| UL Max. Current | 1575cd | |
|-----------------|--------|--------|
| | 24 VDC | 12 VDC |
| High (95) dBA | 0.104 | 0.262 |
| Low (90) dBA | 0.096 | 0.257 |

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

Ceiling Mount Horn Strobes



| | | | |
|----------------------|-------|------------|--|
| 15/30/75/95cd | | Order Code | |
| NS-24MCC-FR | Red | 3754 | |
| NS-24MCC-FW | White | 3753 | |
| 115/177cd | | | |
| NS-24MCCH-FR | Red | 3756 | |
| NS-24MCCH-FW | White | 3755 | |

| UL Max. Current | | 15cd | 30cd | 75cd | 95cd |
|-----------------|--------|-------|-------|-------|-------|
| High (95) dBA | 24 VDC | 0.082 | 0.124 | 0.209 | 0.275 |
| Low (90) dBA | 24 VDC | 0.071 | 0.114 | 0.201 | 0.261 |

| | | |
|-----------------|-------|-------|
| UL Max. Current | 115cd | 177cd |
| High (95) dBA | 0.350 | 0.477 |
| Low (90) dBA | 0.306 | 0.429 |

Mounting Options: D,E

Wall or Ceiling Mount Horns



| | | | |
|---------------|-------|------------|--|
| Square | | Order Code | |
| NH-12/24-R | Red | 7449 | |
| NH-12/24-W | White | 7500 | |
| Round | | | |
| NH-12/24R-R | Red | 3752 | |
| NH-12/24R-W | White | 3751 | |

| UL Max. Current | Audible | |
|-----------------|---------|--------|
| | 24 VDC | 12 VDC |
| High (95) dBA | 0.044 | 0.021 |
| Low (90) dBA | 0.018 | 0.012 |

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

Ideal for 2 wire applications with 2 selectable dBA settings (90 and 95) and wall or ceiling mounting.

Available features and options:

Color: Red or White

Mounting: Wall or Ceiling

Multi-Candela or High Intensity

Round or Square

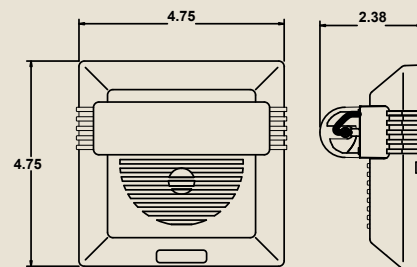
Replaceable Grills

Standard Backboxes

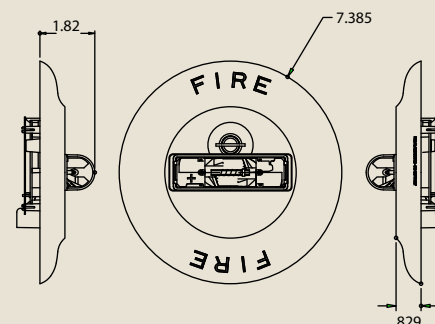
Strobe/horn Synchronization

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

Series NS/NH



Series NS Round



Please reference the back of this catalog for more information on mounting options.

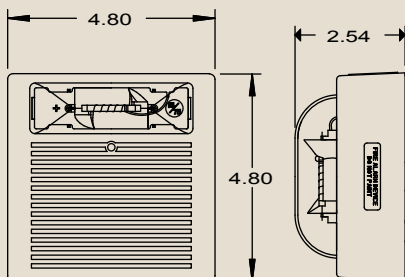
Series NS and NH ceiling mount appliances will be available July 2006.

Ideal for 2 wire applications with 3 selectable dBA settings (99, 95, 99) and wall or ceiling mounting.

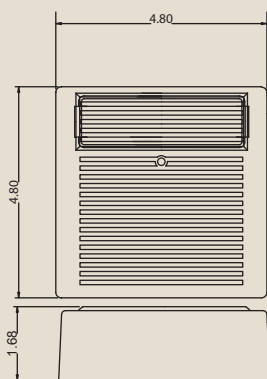
Available features and options:

- Color: Red or White
- Mounting: Wall or Ceiling
- Multi-Candela or High Intensity Square
- Standard Backboxes
- Strobe/horn Synchronization
- Approvals: UL, ULC, FM, CSFM, MEA, BFP

Series AS



Series AH



Please reference the back of this catalog for more information on mounting options.

For the Series ASWP or AHWP Weatherproof appliances, please see page 1-11.

Wall Mount Horn Strobes



| | | Order Code |
|-----------------------|-------|------------|
| 15/30/75/110cd | | |
| AS-24MCW-FR | Red | 9024 |
| AS-24MCW-FW | White | 9025 |
| 135/185cd | | |
| AS-24MCWH-FR | Red | 3468 |
| AS-24MCWH-FW | White | 3469 |
| 1575cd | | |
| AS-241575W-FR | Red | 7405 |
| AS-241575W-FW | White | 7420 |
| 1575cd | | |
| AS-121575W-FR | Red | 7410 |
| AS-121575W-FW | White | 7425 |

| UL Max. Current | | 15cd | 30cd | 75cd | 110cd |
|-----------------|--------|-------|-------|-------|-------|
| High (99) dBA | 24 VDC | 0.088 | 0.125 | 0.200 | 0.267 |
| Med (95) dBA | 24 VDC | 0.074 | 0.110 | 0.190 | 0.253 |
| Low (90) dBA | 24 VDC | 0.068 | 0.105 | 0.182 | 0.245 |

| UL Max. Current | | 135cd | 185cd | 1575cd | |
|-----------------|-------|-------|-------|--------|--------|
| | | | | 24 VDC | 12 VDC |
| High (99) dBA | 0.355 | 0.480 | | 0.121 | 0.320 |
| Med (95) dBA | 0.340 | 0.465 | | 0.107 | 0.275 |
| Low (90) dBA | 0.335 | 0.460 | | 0.100 | 0.265 |

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

Ceiling Mount Horn Strobes



| | | Order Code |
|----------------------|-------|------------|
| 15/30/75/95cd | | |
| AS-24MCC-FR | Red | 3161 |
| AS-24MCC-FW | White | 3162 |
| 115/177cd | | |
| AS-24MCCH-FR | Red | 3466 |
| AS-24MCCH-FR | White | 3467 |

| UL Max. Current | | 15cd | 30cd | 75cd | 95cd |
|-----------------|--------|-------|-------|-------|-------|
| High (99) dBA | 24 VDC | 0.095 | 0.138 | 0.221 | 0.285 |
| Med (95) dBA | 24 VDC | 0.080 | 0.121 | 0.201 | 0.269 |
| Low (90) dBA | 24 VDC | 0.074 | 0.113 | 0.198 | 0.263 |

| UL Max. Current | | 115cd | 177cd |
|-----------------|--------|-------|-------|
| High (99) dBA | 24 VDC | 0.355 | 0.480 |
| Med (95) dBA | 24 VDC | 0.340 | 0.465 |
| Low (90) dBA | 24 VDC | 0.335 | 0.460 |

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

Wall or Ceiling Mount Horns



| | | Order Code |
|---------|-------|------------|
| AH-24-R | Red | 7892 |
| AH-24-W | White | 7893 |
| AH-12-R | Red | 7891 |
| AH-12-W | White | 7894 |

| UL Max. Current | Audible | |
|-----------------|---------|--------|
| | 24 VDC | 12 VDC |
| High (99) dBA | 0.080 | 0.192 |
| Med (95) dBA | 0.043 | 0.108 |
| Low (90) dBA | 0.021 | 0.058 |

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

Wall Mount Horn Strobes



| | | | |
|-----------------------|-------|------------|--|
| 15/30/75/110cd | | Order Code | |
| HS4-24MCW-FR | Red | 3150 | |
| HS4-24MCW-FW | White | 3151 | |
| 135/185cd | | | |
| HS4-24MCWH-FR | Red | 3132 | |
| HS4-24MCWH-FW | White | 3148 | |
| 1575cd | | | |
| HS4-241575W-FR | Red | 3176 | |
| HS4-241575W-FW | White | 3177 | |

| | | | | |
|-----------------|-------|-------|--------|-------|
| Strobe Current | | | | |
| UL Max. Current | 15cd | 30cd | 75cd | 110cd |
| 24 VDC | 0.060 | 0.092 | 0.165 | 0.220 |
| UL Max. Current | 135cd | 185cd | 1575cd | |
| 24 VDC | 0.300 | 0.420 | 0.090 | |

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

Wall or Ceiling Mount Horns



| | | | |
|---------|-------|------------|--|
| | | Order Code | |
| HS-24-R | Red | 3152 | |
| HS-24-W | White | 3153 | |

| | |
|-----------------|---------|
| UL Max. Current | Audible |
| | 24 VDC |
| High (99) dBA | 0.110 |
| Med (95) dBA | 0.068 |
| Low (90) dBA | 0.027 |

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

Ideal for 4 wire applications with 3 selectable dBA settings (99, 95, 90) and wall or ceiling mounting.

Available features and options:

Color: Red or White

Mounting: Wall

Multi-Candela or High Intensity

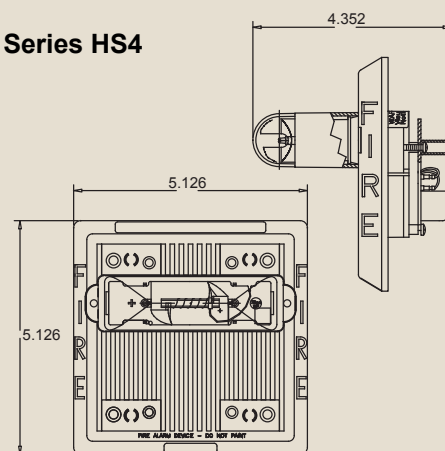
Square

Standard Backboxes

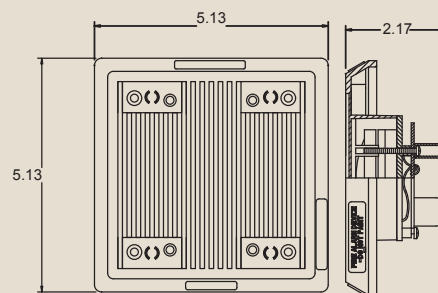
Strobe/horn Synchronization

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

Series HS4



Series HS



Please reference the back of this catalog for more information on mounting options.

Series MT and MT Strobe Multitone Appliances

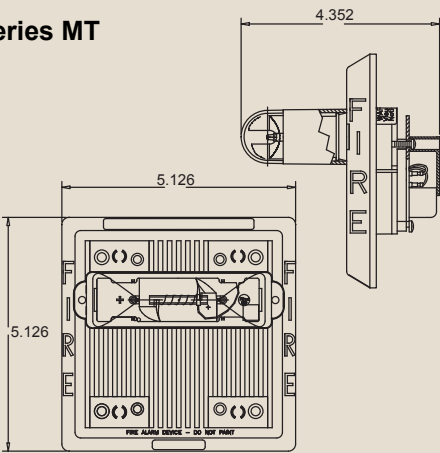


Ideal for 4 wire designs that require a choice of 8 selectable alerting sounds for various ambient and wall conditions and two selectable sound outputs.

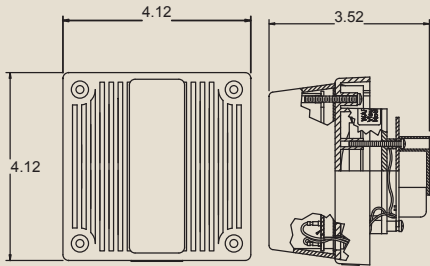
Available features and options:

- Color: Red or White
- Mounting: Wall or Ceiling
- Multi-Candela
- Square
- Replaceable Grills
- Standard Backboxes
- Strobe Synchronization
- Approvals: UL, ULC, FM, CSFM, MEA, BFP

Series MT



Series MT4



Please reference the back of this catalog for more information on mounting options.
For the Series MTWP and MT-12/24 Weather-proof appliances, please see page 1-11.

Wall Mount Multitone Strobes



| 15/30/75/110cd | | Order Code | |
|-----------------------|-------|------------|--|
| MT-24MCW-FR | Red | 9024 | |
| MT-24MCW-FW | White | 9025 | |
| 1575cd | | | |
| MT-241575W-FR | Red | 8422 | |
| MT-241575W-FW | White | 9460 | |
| 1575cd | | | |
| MT-121575W-FR | Red | 8421 | |
| MT-121575W-FW | White | 9461 | |
| 15cd | | | |
| MT4-115-WH-FVR | Red | 6224 | |

Mounting Options: D,E,F,J,L,M,N,O,P,R (MT)
D,E,J,K,N,O,R (MT4)

Wall or Ceiling Mount Multitones



| | | Order Code | |
|-------------|--------|------------|--|
| MT-12/24-R | Red | 5023 | |
| MT-12/24-W | White | 5024 | |
| MT4-12/24-R | Red | 5308 | |
| MT4-12/24-S | Silver | 7997 | |
| MT4-115-R | Red | 6223 | |
| MT4-115-S | Silver | 6142 | |

Mounting Options: D,E,F,J,L,M,N,O,P,R (MT)
D,E,J,K,N,O,R (MT4)

Strobe Ratings

| UL Max. Current | | 15cd | 30cd | 75cd | 110cd | UL Max. Current | | 1575cd |
|-----------------|--|-------|-------|-------|-------|-----------------|--|--------|
| 24 VDC | | 0.060 | 0.092 | 0.165 | 0.220 | 24 VDC | | 12 VDC |
| | | | | | | 0.090 | | 0.255 |

Audible Ratings

| UL Max. Current | 24 VDC | | 12 VDC | | 120 VAC | |
|-----------------|--------|---------|--------|---------|---------|---------|
| | HI Out | STD Out | HI Out | STD Out | HI Out | STD Out |
| Horn | 0.108 | 0.044 | 0.177 | 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 | 0.050 |
| Siren | 0.104 | 0.036 | 0.152 | 0.030 | 0.045 | 0.045 |
| Hi/Lo | 0.057 | 0.025 | 0.114 | 0.026 | 0.042 | 0.042 |

| dBA | dBA @ 10 ft. (UL Reverberant) | | dBA @ 10 ft. (anechoic) | | dBA @ 10 ft. (UL Reverberant) | |
|-----------------|-------------------------------|---------|-------------------------|---------|-------------------------------|---------|
| | 24 VDC | 12 VDC | 12 and 24 | 120 VAC | 24 VDC | 12 VDC |
| | HI Out | STD Out | HI Out | STD Out | HI Out | STD Out |
| Horn | 92 | 87 | 90 | 77 | 99 | 93 |
| Bell | 86 | 80 | 85 | 69 | 92 | 87 |
| March Time Horn | 89 | 84 | 89 | 74 | 99 | 93 |
| Code-3 Horn | 88 | 83 | 88 | 73 | 99 | 93 |
| Code-3 Tone | 85 | 80 | 84 | 70 | 95 | 90 |
| Slow Whoop | 90 | 89 | 89 | 75 | 99 | 94 |
| Siren | 89 | 84 | 89 | 75 | 98 | 93 |
| Hi/Lo | 86 | 81 | 86 | 71 | 93 | 88 |

Wall Mount Multitone Strobes



| | | | |
|-----------------------|-------|------------|--|
| 15/30/75/110cd | | Order Code | |
| AMT-24MCW-FR | Red | 3300 | |
| AMT-24MCW-FW | White | 3302 | |
| 1575cd | | | |
| AMT-241575W-FR | Red | 9463 | |
| AMT-241575W-FW | White | 9466 | |
| AMT-241575W-NW | White | 3047 | |
| AMT-241575W-FR-NYC | Red | 9465 | |

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

Wall or Ceiling Mount Multitones



| | | | |
|-----------------|-------|------------|--|
| | | 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,O,P,R

Strobe Ratings

| UL Max. Current | 15cd | 30cd | 75cd | 110cd | 1575cd |
|-----------------|-------|-------|-------|-------|--------|
| 24 VDC | 0.060 | 0.092 | 0.165 | 0.220 | 0.101 |

Audible Ratings

| | 24 VDC | | 12 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 |

Designed for 2-8 wire applications that require up to three distinct prioritized audible signals from 3 isolated inputs. Ideal for combination fire and burglary systems and suppression systems.

Available features and options:

Color: Red or White

Mounting: Wall or Ceiling

Multi-Candela

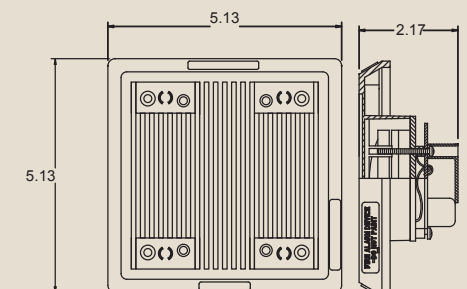
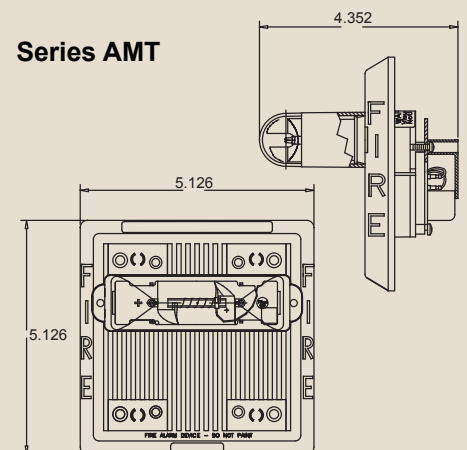
Square

Standard Backboxes

Strobe Synchronization

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

Series AMT



Please reference the back of this catalog for more information on mounting options.

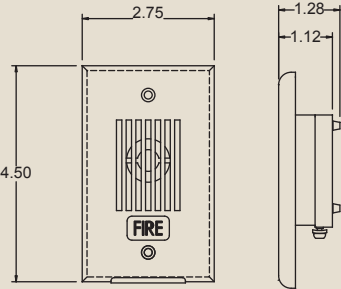
The MIZ horn offers high sound output along with low current draw and is ideal for alarm signaling in individual rooms, apartments, hotels, motels, and offices.

The 31T horn is a high performance mechanical horn ideal for life safety applications where high sound output, low current draw and dependable operation are of critical concern.

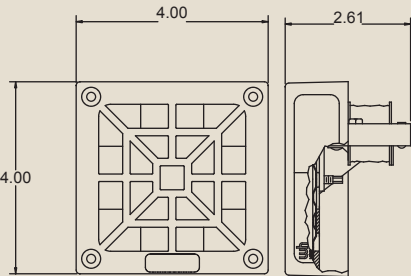
Available features and options:

- Color: Red, White or Gray (31T)
- Mounting: Wall
- Continuous or Code 3 output (MIZ)
- Mount to single-gang boxes (MIZ)
- Approvals: UL, ULC, FM, CSFM, MEA
- Synchronization (MIZ)

Series MIZ



Series 31T



Please reference the back of this catalog for more information on mounting options.

Wall Mount Mini Horn



MIZ-24S-R
MIZ-24S-W

Order Code
Red 8485
White 8484

| UL Max. Current | |
|-----------------|-------|
| 24 VDC | 0.026 |

| 24 VDC | Reverberant dBA Per UL 464 @ 10 ft | | Anechoic dBA @ 10 ft | |
|--------|------------------------------------|--------|----------------------|--------|
| | Continuous | Code 3 | Continuous | Code 3 |
| | 85.8 | 81.3 | 90.6 | 89.7 |

Mounting Options: B

31 T VAC 115 Horn



31T-115-R
31T-115-S

Order Code
Red 2805
Gray 0521

| UL Max. Current | | 115 VAC | dBA @ 10 ft. |
|-----------------|--|---------|--------------|
| | | 0.160 | 95 |

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

Ceiling and Wall Mount



| Strobes 15/30/75/95cd | Lens Color | Order Code |
|--|-------------------|-------------------|
| RSSA-24MCC-NW | Amber | 0202 |
| RSSB-24MCC-NW | Blue | 0203 |
| RSSG-24MCC-NW | Green | 0204 |
| RSSR-24MCC-NW | Red | 3111 |

| Strobe Plates 15/30/75/95cd | | |
|--|-------|------|
| RSSPA-24MCC-NW | Amber | 3308 |

| Wthproof Strobe 75cd | | |
|---------------------------------------|-------|------|
| RSSWPA-2475W-NW | Amber | 0240 |

| Speaker Strobes 15/30/75/95cd | | |
|--|-------|------|
| E70A-24MCC-NW | Amber | 0209 |
| E70B-24MCC-NW | Blue | 0210 |
| E90A-24MCC-NW | Amber | 0213 |
| E90B-24MCC-NW | Blue | 0214 |

| Multitones | | |
|-------------------|-------|------|
| MTWPA-2475W-NW | Amber | 1649 |
| MTWPB-2475W-NW | Blue | 1652 |

| UL Max. Current | 15cd | 30cd | 75cd | 95cd |
|-----------------|-------|-------|-------|-------|
| 24 VDC | 0.045 | 0.070 | 0.119 | 0.159 |

Candela is measured on axis per UL 1638. Models with MCC stroes have 4 field selectable candela settings. MCC settings are rated for clear lens - derate approximately 25% for amber, 55% for green and 70% for blue lenses.

Designed for effective alerting of employees or personnel in industrial, military or government applications.

Available features and options:

Color: White

Mounting: Wall, Ceiling

Wide operating voltage range

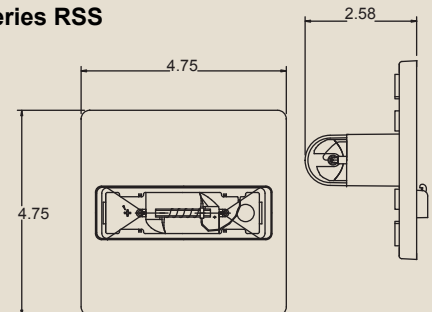
Round, Square

Strobe Color: Amber, Blue, Green and Red

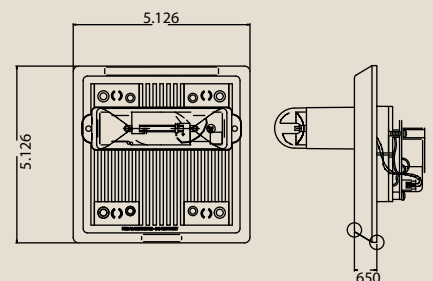
Mount to standard electrical back-boxes

Combination speaker/strobes

Series RSS



Series MTWP



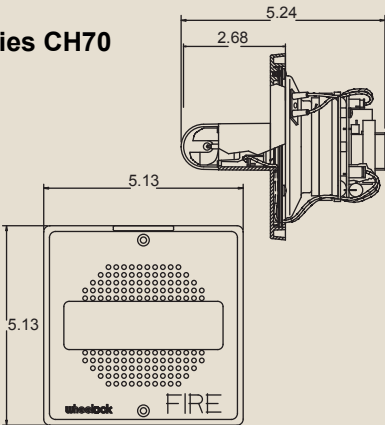
Please see page 2-2 for E70 and E90 product dimensions.
Please reference the back of this catalog for more information on mounting options.

Ideal for hospital and institutional applications. The appliances feature single stroke or vibrating operation.

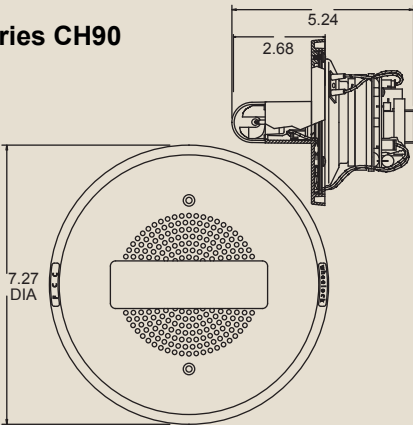
Available features and options:

- Color: Red or White
- Mounting: Wall or Ceiling
- Multi-Candela or High Intensity
- Square or Round
- Replaceable Grills
- Standard Backboxes
- Strobe Synchronization
- Approvals: UL, ULC, FM, CSFM, MEA, BFP

Series CH70



Series CH90



Please reference the back of this catalog for more information on mounting options.

Wall Mount Chime Strobes



| | | |
|-----------------------|-------|------------|
| 15/30/75/110cd | | Order Code |
| CH70-24MCW-FR | Red | 9018 |
| CH70-24MCW-FW | White | 9019 |
| 135/185cd | | |
| CH70-24MCWH-FR | Red | 9083 |
| CH70-24MCWH-FW | White | 9084 |
| 1575cd | | |
| CH70-241575W-FR | Red | 7830 |
| CH70-241575W-FW | White | 7835 |

| | | | | |
|-----------------|-------|-------|-------|-------|
| UL Max. Current | 15cd | 30cd | 75cd | 110cd |
| 24 VDC | 0.060 | 0.092 | 0.165 | 0.220 |

| | | | |
|-----------------|-------|-------|-------|
| UL Max. Current | 135cd | 185cd | 1575 |
| 24 VDC | 0.300 | 0.420 | 0.104 |

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

Ceiling Mount Chime Strobes



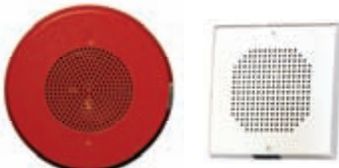
| | | |
|----------------------|-------|------------|
| 15/30/75/95cd | | Order Code |
| CH90-24MCC-FR | Red | 3167 |
| CH90-24MCC-FW | White | 3168 |
| 115/177cd | | |
| CH90-24MCCH-FR | White | 3110 |

| | | | | |
|-----------------|-------|-------|-------|-------|
| UL Max. Current | 15cd | 30cd | 75cd | 95cd |
| 24 VDC | 0.065 | 0.105 | 0.189 | 0.249 |

| | | |
|-----------------|-------|-------|
| UL Max. Current | 115cd | 177cd |
| 24 VDC | 0.300 | 0.420 |

Mounting Options: Q,U,V

Wall or Ceiling Mount Chimes



| | | |
|---------------|-------|------------|
| Square | | Order Code |
| CH70-R | Red | 7825 |
| CH70-W | White | 7827 |
| Round | | |
| CH90-R | Red | 7828 |
| CH90-W | White | 7826 |

| | |
|-----------------|---------|
| UL Max. Current | Audible |
| 24 VDC | 0.080 |

Mounting Options: L,O,P,Q,R,U,Y (CH70)
Q,U,V (CH90)

MB Motor Bells



6" Bells

| | | Order Code |
|------------|------|------------|
| 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 |

| UL Max. Current | 24 VDC | 12 VDC | dBA @ 10 ft. |
|-----------------|--------|--------|--------------|
| | 0.040 | 0.090 | 92 |

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

MB motor bells provide a sound engineering bell for fire life safety alarm systems.

The 43T vibrating bells provide durable operation and dependable performance for indoor and outdoor installations.

Available features and options:

Color: Red or Gray

Mounting: Wall

Indoor or outdoor

Available in 6" and 10" sizes

Strobe Synchronization with RSSP strobe plate

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

43T Vibrating Bells



6" Bells

| | | Order Code |
|--------------|------|------------|
| 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

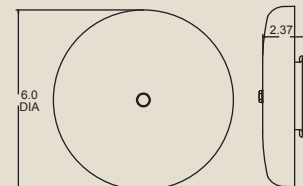
| | | |
|---------------|------|------|
| 43T-G10-24-R | Red | 1647 |
| 43T-G10-24-S | Gray | 3800 |
| 43T-G10-115-R | Red | 1651 |
| 43T-G10-115-S | Gray | 3693 |

| Input Current | 24 VAC | 115 VAC | dBA @ 10 ft. |
|---------------|--------|---------|--------------|
| | 0.410 | 0.085 | 86 |

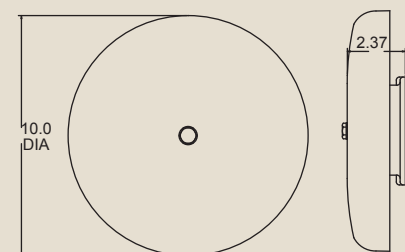
Mounting Options: D,E,J,K,N,O,P,R,S

Series MB and 43T

6"



10"



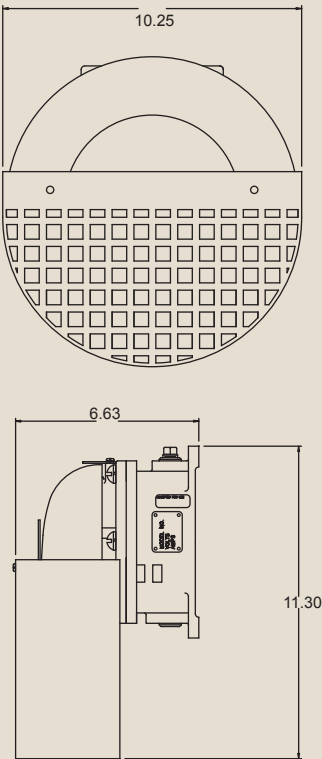
Please reference the back of this catalog for more information on mounting options.

CVX/CSX explosion proof bells are listed for service in Division One applications, which means they are designed to operate safely in atmospheres that actually contain the explosive elements in free form.

Available features and options:

- Color: Red or Gray
- Mounting: Wall
- Available in 10" size
- Indoor and outdoor models
- 24 VDC and 115 VAC models
- Single stroke and vibrating
- Approvals: UL, CSFM, MEA

Series CVX



Please reference the back of this catalog for more information on mounting options.

Vibrating Bell Models



| Indoor | | Order Code |
|--------------|------|------------|
| CVX10-115-R | Red | 3742 |
| CVX10-115-S | Gray | 0132 |
| Outdoor | | |
| CVXG10-115-R | Red | 4930 |
| CVXG10-115-S | Gray | 0134 |

| Input Current | 115 VAC | dBA @ 10 ft. |
|---------------|---------|--------------|
| | 0.220 | 90 |

Mounting Options: All models include integral cast backbox for surface mounting with 1/2" threaded conduit entrances on top and bottom of housing.

Single Stroke Models



| Indoor | | Order Code |
|--------------|------|------------|
| CSX10-115-R | Red | 4715 |
| CSX10-115-S | Gray | 0166 |
| Outdoor | | |
| CSXG10-115-R | Red | 4929 |
| CSXG10-115-S | Gray | 0167 |
| Indoor | | |
| CSX10-24-R | Red | 3582 |
| CSX10-24-S | Gray | 0164 |
| Outdoor | | |
| CSXG10-24-R | Red | 3402 |
| CSXG10-24-S | Gray | 0196 |

| Input Current | 24 VDC | 115 VAC | dBA @ 10 ft. |
|---------------|--------|---------|--------------|
| | 0.500 | 0.125 | 87 |

| Class | Group | Contents of Hazardous Atmosphere |
|-------|-------|---|
| I | B | Hydrogen, or gases and vapors of equivalent hazards such as manufactured gas |
| I | C | Ethyl and ether vapors |
| II | D | Gasoline, petroleum, naphtha, alcohol, acetone, benzene, lacquer solvent, vapors, natural gas |
| II | F | Carbon black, coal, coke dust |
| II | G | Flour, starch, grain dusts |

Wall Mount Strobe Appliances



| Strobe | | Order Code |
|--------------------------|-------|------------|
| RSSWP-2475W-FR | Red | 9013 |
| RSSWP-2475W-FW | White | 3034 |
| Audible Strobe | | |
| ASWP-2475W-FR | Red | 9012 |
| Multi-tone Strobe | | |
| MTWP-2475W-FR | Red | 8420 |
| MTWP-2475W-FW | White | 3112 |
| Speaker Strobe | | |
| ET70WP-2475W-FR | Red | 9077 |
| ET70WP-2475W-FW | White | 3179 |

| | |
|--------------------------------------|--------|
| RSSWP, ET70WP and MTWP (strobe only) | |
| UL Max. Current | 24 VDC |
| | 0.138 |

| UL Max. Current (Audible) | MTWP/MT 24 VDC | | MT 12 VDC | |
|---------------------------|----------------|-------|-----------|-------|
| dBA | HI | STD | HI | STD |
| Horn | 0.108 | 0.044 | 0.177 | 0.034 |
| Bell | 0.053 | 0.024 | 0.095 | 0.020 |
| March Time | 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 |

Wall or Ceiling Mount Appliances



| Audible | | Order Code |
|----------------|-------|------------|
| AH-24WP-R | Red | 7416 |
| AH-12WP-R | Red | 7415 |
| Horn | | |
| MT-12/24-R | Red | 5023 |
| Speaker | | |
| ET-1010-R | Red | 3135 |
| ET-1010-W | White | 3137 |

Ceiling Mount Strobe Appliances



| Strobe | | Order Code |
|--------------------------|-------|------------|
| RSSWP-2475C-FR | Red | 4338 |
| RSSWP-2475C-FW | White | 4446 |
| Audible Strobe | | |
| ASWP-2475C-FR | Red | 4251 |
| ASWP-2475C-FW | White | 4502 |
| Multi-tone Strobe | | |
| MTWP-2475C-FR | Red | 4457 |
| MTWP-2475C-FW | White | 4478 |
| Speaker Strobe | | |
| ET70WP-2475C-FR | Red | 4452 |
| ET70WP-2475C-FW | White | 4454 |

| | |
|--------------------------------------|--------|
| UL Max. Current (Audible and Strobe) | ASWP |
| | 24 VDC |
| High (99) dBA | 0.168 |
| Med (95) dBA | 0.155 |
| Low (90) dBA | 0.150 |

| UL Reverberant dBA @ 10 Feet | | | | | | | |
|------------------------------|-----|-----|-----|----|----|----|----|
| Watts | 1/8 | 1/4 | 1/2 | 1 | 2 | 4 | 8 |
| ET-1010 | 77 | 80 | 83 | 86 | 87 | 92 | 94 |
| ET70WP | 78 | 81 | 84 | 87 | 90 | 93 | 95 |

Mounting Options: See page 1-12.

The broadest UL Listed outdoor product line in the industry for wall, ceiling or flush mounting with an extended temperature range of -31°F to 150°F (-35°C to 66°C) per UL 1638.

Available features and options:

Color: Red or White

Mounting: Wall or Ceiling

Strobe Synchronization

Approvals: UL, ULC, FM, CSFM, MEA, BFP (See page 7-2)

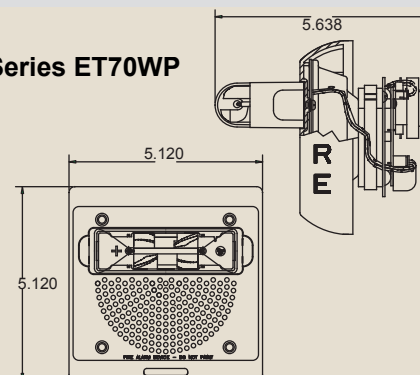
Strobe Candela

| | |
|--------------|-------|
| 77°F (25°C) | 180cd |
| -31°F (35°C) | 75cd |

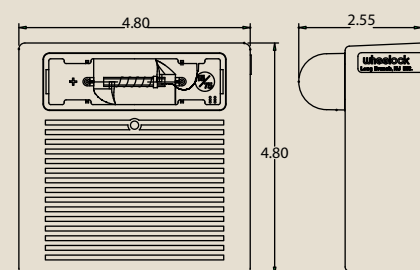
Voltage Range

| | |
|--------|-------------|
| 12 VDC | 8.0-17.5 |
| 24 VDC | 16.0 - 33.0 |

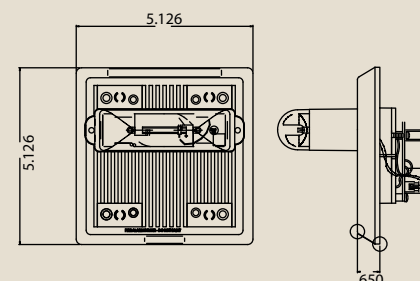
Series ET70WP



Series ASWP



Series MTWP



The WP-KIT allows for surface mounting of a weatherproof back box to a recessed electrical box.

WFPA and WFP plates allow for flush mounting of weatherproof products without an external back box.

- Available features and options:
- Mounting: Flush or surface
 - Color: Red or white
 - Mounting Screws Supplied

Mounting Accessories



WFP



WFPA



IOB



WPSBB



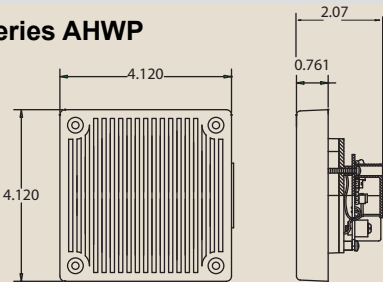
WPBB



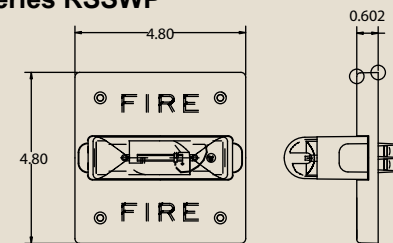
WBB

| | | |
|---------------------|-------|------------|
| Gasket Kit | | Order Code |
| WP-KIT | | 4486 |
| Flush Plates | | |
| WFPA-R | Red | 4698 |
| WFPA-W | White | 4701 |
| WFP-R | Red | 4696 |
| WFP-W | White | 4697 |
| 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 |

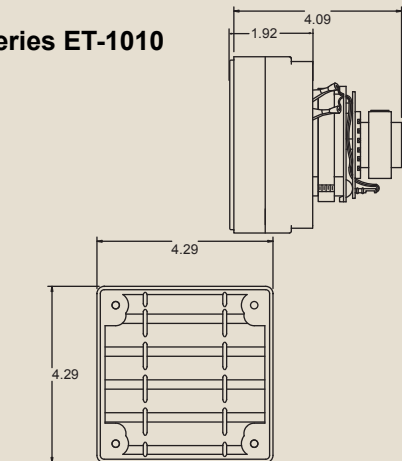
Series AHWP



Series RSSWP



Series ET-1010



| | | | |
|------------------------|--------------------------------|-------------------|-------------|
| Mounting Options: | Backboxes, Plates, Gasket Kits | | |
| | Surface Mount | | Flush Mount |
| | Exposed Conduit | Concealed Conduit | |
| RSSWP Strobes | WPSBB | WPSBB + WP-KIT | WFP |
| ET70WP Speaker Strobes | IOB | IOB + WP-KIT | WFP |
| ASWP Horn Strobes | WPBB | WPBB + WP-KIT | WFPA |
| AHWP Horns | WBB | - | WFP |
| ET-1010 Speakers | WBB | - | WFP |
| MTWP Multitone Strobes | IOB | IOB + WP-KIT | WFP |
| Multitone | IOB | IOB + WP-KIT | WFP |



Wall Mount Speaker Strobes



| | | |
|-----------------------|-------|------------|
| 15/30/75/110cd | | Order Code |
| E50-24MCW-FR | Red | 0226 |
| E50-24MCW-FW | White | 0227 |
| 135/185cd | | |
| E50-24MCWH-FR | Red | 0228 |
| E50-24MCWH-FW | White | 0229 |
| 1575cd | | |
| E50-241575W-FR | Red | 0224 |
| E50-241575W-FW | White | 0225 |

| UL Max. Current | 15cd | 30cd | 75cd | 110cd |
|-----------------|-------|-------|-------|-------|
| 24 VDC | 0.060 | 0.092 | 0.165 | 0.220 |

| UL Max. Current | 135cd | 185cd | 1575 |
|-----------------|-------|-------|-------|
| 24 VDC | 0.300 | 0.420 | 0.090 |

Mounting Options: E,Q,U,BB

Ceiling Mount Speaker Strobes



| | | |
|----------------------|-------|------------|
| 15/30/75/95cd | | Order Code |
| E60-24MCC-FR | Red | 3748 |
| E60-24MCC-FW | White | 3747 |
| 115/177cd | | |
| E60-24MCCH-FR | Red | 3749 |
| E60-24MCCH-FW | White | 3750 |

| UL Max. Current | 115cd | 177cd |
|-----------------|-------|-------|
| 24 VDC | 0.300 | 0.420 |

Mounting Options: Q,U,V

Wall or Ceiling Mount Speakers



| | | |
|----------------------|-------|------------|
| Wall Mount | | Order Code |
| E50-R | Red | 0222 |
| E50-W | White | 0223 |
| Ceiling Mount | | |
| E60-R | Red | 3746 |
| E60-W | White | 3745 |

| E50/E60 UL Reverberant dBA @ 10 Feet | Watts | 1/8 | 1/4 | 1/2 | 1 | 2 |
|--------------------------------------|-------|-----|-----|-----|----|----|
| E Speaker | | 77 | 81 | 83 | 86 | 89 |
| E Speaker Strobe | | 76 | 80 | 82 | 85 | 88 |

Mounting Options: E,O,P,Q,R,U,Y,AA (E50)
Q,U (E60)

| | | |
|-----------------|-------|------------|
| E60-EXT- | | Order Code |
| Extension Ring | | |
| R | Red | 3578 |
| W | White | 3757 |

Designed for high efficiency sound output with field selectable input voltage (25/70 VRMS) and field selectable taps from 1/8 to 2 watts. They are also designed to provide a sleek, aesthetic appearance for emergency voice/alarm communications systems.

Available features and options:

Color: Red or White

Mounting: Wall or Ceiling

No extension ring required

Multi-Candela or High Intensity

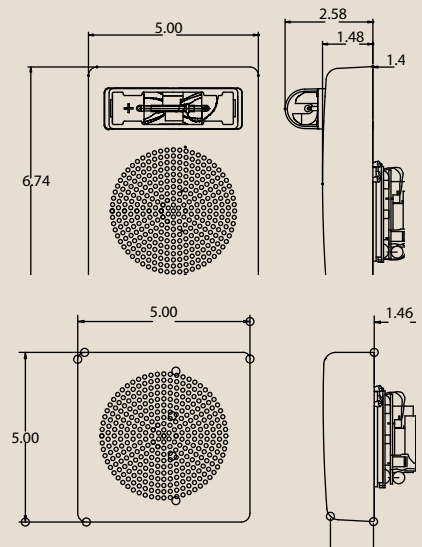
Snap-on Grilles

Strobe Synchronization

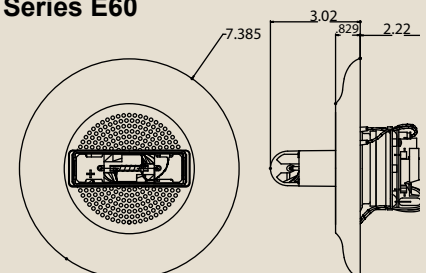
Approvals: UL, ULC, FM,

CSFM, MEA, BFP

Series E50



Series E60



Please reference the back of this catalog for more information on mounting options.

Designed for high efficiency sound output with field selectable input voltage (25/70 VRMS) and field selectable taps from 1/8 to 2 watts.

Available features and options:

- Color: Red, White or Nickel
- Mounting: Wall or Ceiling
- Multi-Candela or High Intensity
- Round or Square
- Replaceable Grills
- Standard Backboxes
- Strobe Synchronization
- Approvals: UL, ULC, FM, CSFM, MEA, BFP

Wall Mount Speaker Strobes



| | | |
|-----------------------|--------|------------|
| 15/30/75/110cd | | Order Code |
| E70-24MCW-FR | Red | 9022 |
| E70-24MCW-FW | White | 9023 |
| E70-24MCW-FN | Nickel | 3099 |
| 135/185cd | | |
| E70-24MCWH-FR | Red | 3470 |
| E70-24MCWH-FW | White | 3474 |
| E70-24MCWH-FN | Nickel | 0059 |
| 1575cd | | |
| E70-241575W-FR | Red | 7871 |
| E70-241575W-FW | White | 7876 |
| E70-241575W-FN | Nickel | 3100 |

| | | | | |
|-----------------|-------|-------|-------|-------|
| UL Max. Current | 15cd | 30cd | 75cd | 110cd |
| 24 VDC | 0.060 | 0.092 | 0.165 | 0.220 |

| | | | |
|-----------------|-------|-------|-------|
| UL Max. Current | 135cd | 185cd | 1575 |
| 24 VDC | 0.300 | 0.420 | 0.090 |

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

Ceiling Mount Speaker Strobes



| | | |
|----------------------|--------|------------|
| 15/30/75/95cd | | Order Code |
| E90-24MCC-FR | Red | 3165 |
| E90-24MCC-FW | White | 3166 |
| E90-24MCC-FN | Nickel | 3185 |
| 115/177cd | | |
| E90-24MCCH-FR | Red | 3481 |
| E90-24MCCH-FW | White | 3471 |
| E90-24MCCH-FN | Nickel | 0062 |

| | | | | |
|-----------------|-------|-------|-------|-------|
| UL Max. Current | 15cd | 30cd | 75cd | 95cd |
| 24 VDC | 0.065 | 0.105 | 0.189 | 0.249 |

| | | |
|-----------------|-------|-------|
| UL Max. Current | 115cd | 177cd |
| 24 VDC | 0.300 | 0.420 |

Mounting Options: Q,U,V

Wall or Ceiling Mount Speakers

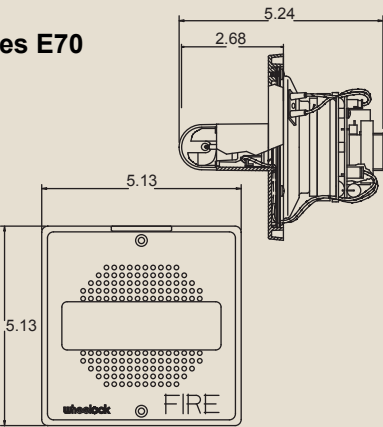


| | | |
|---------------|--------|------------|
| Square | | Order Code |
| E70-R | Red | 7866 |
| E70-W | White | 7876 |
| E70-N | Nickel | 3108 |
| Round | | |
| E90-R | Red | 7867 |
| E90-W | White | 7869 |
| E90-N | Nickel | 3109 |

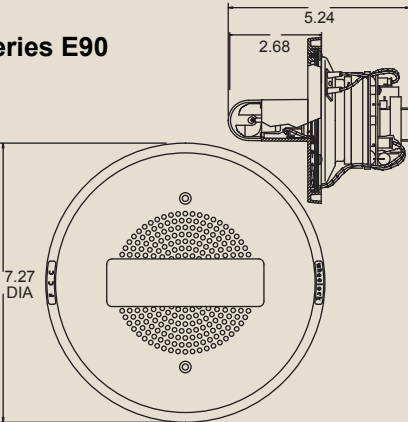
| | | | | | |
|--------------------------------------|-----|-----|-----|----|----|
| E70/E90 UL Reverberant dBA @ 10 Feet | | | | | |
| Watts | 1/8 | 1/4 | 1/2 | 1 | 2 |
| E Speaker | 77 | 81 | 83 | 86 | 89 |
| E Speaker Strobe | 76 | 80 | 82 | 85 | 88 |

Mounting Options: L,O,P,Q,R,U,Y (E70)
Q,U,V (E90)

Series E70



Series E90



Please reference the back of this catalog for more information on mounting options.

Wall Mount Speaker Strobes



| | | |
|-----------------------|--------|------------|
| 15/30/75/110cd | | Order Code |
| ET70-24MCW-FR | Red | 9020 |
| ET70-24MCW-FW | White | 9021 |
| ET70-24MCW-FN | Nickel | 3091 |
| 135/185cd | | |
| ET70-24MCWH-FR | Red | 3472 |
| ET70-24MCWH-FW | White | 3475 |
| ET70-24MCWH-FN | Nickel | 0061 |
| 1575cd | | |
| ET70-241575W-FR | Red | 7848 |
| ET70-241575W-FW | White | 7853 |
| ET70-241575W-FN | Nickel | 3092 |

| | | | | |
|-----------------|-------|-------|-------|-------|
| UL Max. Current | 15cd | 30cd | 75cd | 110cd |
| 24 VDC | 0.060 | 0.092 | 0.165 | 0.220 |

| | | | |
|-----------------|-------|-------|-------|
| UL Max. Current | 135cd | 185cd | 1575 |
| 24 VDC | 0.300 | 0.420 | 0.090 |

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

Designed for high efficiency sound output with field selectable input voltage (25/70 VRMS) and field selectable taps from 1/8 to 8 watts.

Available features and options:

Color: Red, White or Nickel

Mounting: Wall or Ceiling

Multi-Candela or High Intensity

Round or Square

Replaceable Grills

Standard Backboxes

Strobe Synchronization

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

Ceiling Mount Speaker Strobes



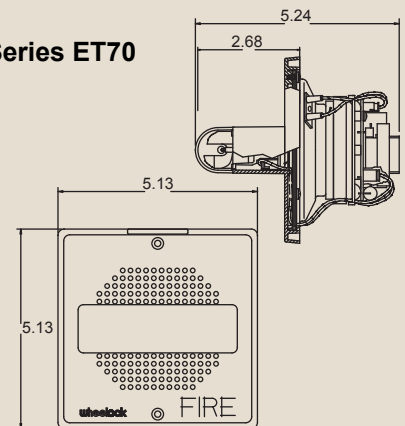
| | | |
|----------------------|--------|------------|
| 15/30/75/95cd | | Order Code |
| ET90-24MCC-FR | Red | 3163 |
| ET90-24MCC-FW | White | 3164 |
| ET90-24MCC-FN | Nickel | 3186 |
| 115/177cd | | |
| ET90-24MCCH-FR | Red | 0139 |
| ET90-24MCCH-FW | White | 3473 |
| ET90-24MCCH-FN | Nickel | 0062 |

| | | | | |
|-----------------|-------|-------|-------|-------|
| UL Max. Current | 15cd | 30cd | 75cd | 95cd |
| 24 VDC | 0.065 | 0.105 | 0.189 | 0.249 |

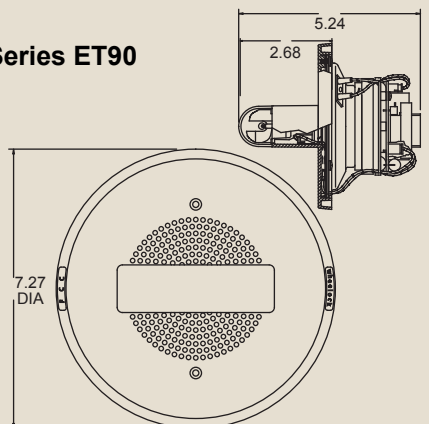
| | | |
|-----------------|-------|-------|
| UL Max. Current | 115cd | 177cd |
| 24 VDC | 0.300 | 0.420 |

Mounting Options: Q,U,V

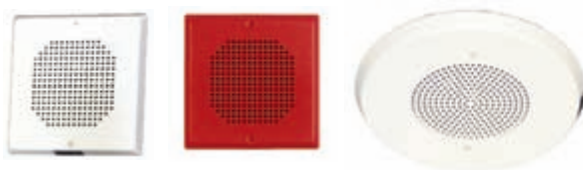
Series ET70



Series ET90



Wall or Ceiling Mount Speakers



| | | |
|---------------|--------|------------|
| Square | | Order Code |
| ET70-R | Red | 7840 |
| ET70-W | White | 7844 |
| ET70-N | Nickel | 3097 |
| Round | | |
| ET90-R | Red | 7842 |
| ET90-W | White | 7846 |
| ET90-N | Nickel | 3098 |

| | | | | | | | | |
|--|-----|-----|-----|----|----|----|----|--|
| ET70/ET90 UL Reverberant dBA @ 10 Feet | | | | | | | | |
| Watts | 1/8 | 1/4 | 1/2 | 1 | 2 | 4 | 8 | |
| ET Speaker | 78 | 81 | 84 | 87 | 90 | 93 | 95 | |
| ET Speaker Strobe | 78 | 81 | 84 | 87 | 90 | 93 | 95 | |

Mounting Options: L,O,P,Q,R,U,Y (ET70)
Q,U,V (ET90)

Please reference the back of this catalog for more information on mounting options.

For the Series ET70WP Weatherproof appliances, please see page 1-11.

Provide a full range of rugged, high performance combinations specifically designed to meet the critical needs of the life safety industry for voice and tone signaling.

Available features and options:

- Color: Red or White
- Mounting: Wall or Ceiling
- Vandal resistant
- Sealed back speaker
- Standard Backboxes
- Strobe Synchronization
- Approvals: UL, ULC, FM, CSFM, MEA, BFP

Wall Mount Speaker Strobes



| | | |
|-----------------------|-------|------------|
| 15/30/75/110cd | | Order Code |
| ET80-24MCW-FR | Red | 3476 |
| ET80-24MCW-FW | White | 3477 |
| 135/185cd | | |
| ET80-24MCWH-FR | Red | 3478 |
| ET80-24MCWH-FW | White | 3479 |
| 1575cd | | |
| ET80-241575W-FR | Red | 3037 |
| ET80-241575W-FW | White | 3038 |

| | | | | |
|-----------------|-------|-------|-------|-------|
| UL Max. Current | 15cd | 30cd | 75cd | 110cd |
| 24 VDC | 0.060 | 0.092 | 0.165 | 0.220 |

| | | | |
|-----------------|-------|-------|-------|
| UL Max. Current | 135cd | 185cd | 1575 |
| 24 VDC | 0.300 | 0.420 | 0.090 |

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

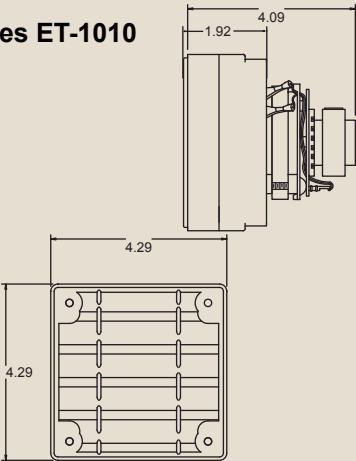
Wall or Ceiling Mount Speakers



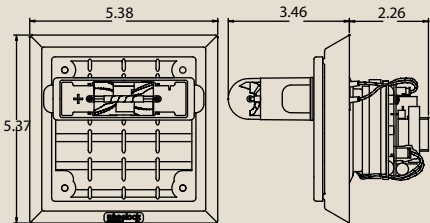
| | | |
|-----------|-------|-----------------|
| ET-1010-R | Red | Order Code 0222 |
| ET-1010-W | White | 0223 |
| ET-1080-R | Red | 3746 |
| ET-1080-W | White | 3745 |

Mounting Options: K,N,O (ET-1010)
O,P,Q,Y (ET-1080)

Series ET-1010



Series ET80



Please reference the back of this catalog for more information on mounting options.

| | | | | | | | |
|------------------------------|-----|-----|-----|----|----|----|----|
| UL Reverberant dBA @ 10 Feet | | | | | | | |
| Watts | 1/8 | 1/4 | 1/2 | 1 | 2 | 4 | 8 |
| ET-1010 | 77 | 80 | 83 | 86 | 87 | 92 | 94 |
| ET-1080 & ET80 | 78 | 81 | 84 | 87 | 90 | 92 | 94 |

8" Ceiling Mount



| | | |
|----------------------|-------|------------|
| 15/30/75/95cd | | Order Code |
| S8-24MCC-FW | White | 0054 |
| 115/177cd | | |
| S8-24MCCH-FW | White | 0056 |
| S8-70/25 | White | 0052 |

| UL Max. Current | 15cd | 30cd | 75cd | 110cd |
|-----------------|-------|-------|-------|-------|
| 24 VDC | 0.065 | 0.105 | 0.189 | 0.249 |

| UL Max. Current | 135cd | 185cd |
|-----------------|-------|-------|
| 24 VDC | 0.300 | 0.420 |

Mounting Options: CBB-8 Speaker Back Box (3314)
SSB-8 Speaker Support Bridge (3573)

| UL Reverberant dBA @ 10 Feet | | | | | | | |
|------------------------------|-----|-----|-----|----|----|----|----|
| Watts | 1/8 | 1/4 | 1/2 | 1 | 2 | 4 | 8 |
| | 75 | 78 | 81 | 84 | 87 | 90 | 93 |

8" ceiling speaker available in three configurations and UL Listed under Standard 1480. Use with the SP40S Supervised Multi-function Communications System.

Available features and options:

Color: White

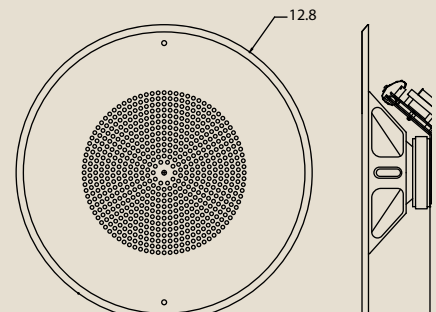
Metal Grille

Mounting: Ceiling

Strobe Synchronization

Approvals: UL Standard 1480, CSFM, MEA

Series S



Please reference the back of this catalog for more information on mounting options.

Designed to meet the critical needs for the life safety industry. These speakers and speaker strobes are a fit for SCIF (Sensitive Compartmented Information Facilities) room applications.

Available features and options:

- Color: Red or White
- Mounting: Wall or Ceiling
- Multi-Candela or High Intensity
- Round or Square
- Replaceable Grills
- Strobe Synchronization
- Approvals: UL, ULC, FM, CSFM, MEA, BFP

Wall Mount Speaker Strobes



| | | |
|-----------------------|-------|------------|
| 15/30/75/110cd | | Order Code |
| SA-S70-24MCW-FR | Red | 1006 |
| SA-S70-24MCW-FW | White | 1007 |

| | | | | |
|-----------------|-------|-------|-------|-------|
| UL Max. Current | 15cd | 30cd | 75cd | 110cd |
| 24 VDC | 0.060 | 0.092 | 0.165 | 0.220 |

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

Ceiling Mount Speaker Strobes



| | | |
|----------------------|-------|------------|
| 15/30/75/95cd | | Order Code |
| SA-S70-24MCC-FR | Red | 1004 |
| SA-S70-24MCC-FW | White | 1005 |

| | | | | |
|-----------------|-------|-------|-------|-------|
| UL Max. Current | 15cd | 30cd | 75cd | 95cd |
| 24 VDC | 0.065 | 0.105 | 0.189 | 0.249 |

Mounting Options: Q,U,V

Wall or Ceiling Mount Speakers

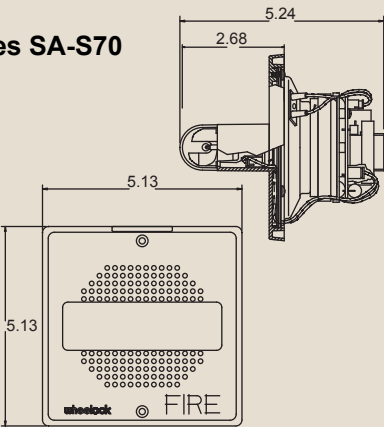


| | | |
|---------------|-------|------------|
| Square | | Order Code |
| SA-S70-R | Red | 1002 |
| SA-S70-W | White | 1003 |
| Round | | |
| SA-S90-R | Red | 1000 |
| SA-S90-W | White | 1001 |

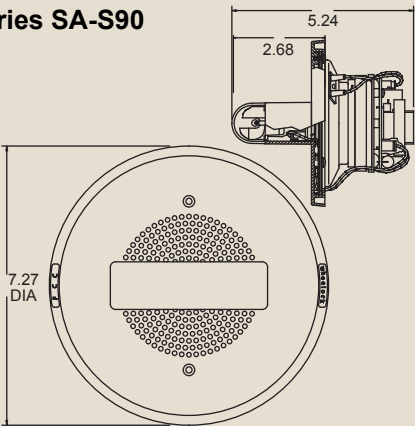
| SA-S UL Reverberant dBA @ 10 Feet | | | |
|-----------------------------------|--------|--------------|---------------|
| Sound Level | SA-S90 | SA-S90-24MCC | SA-S90-24MCCH |
| 6 | 84 | 84 | 82 |
| 5 | 82 | 81 | 81 |
| 4 | 77 | 77 | 76 |
| 3 | 75 | 74 | 74 |
| 2 | 71 | 71 | 70 |
| 1 | 69 | 68 | 68 |

Mounting Options: L,O,P,Q,R,U,Y (SA-S70)
Q,U,V (SA-S90)

Series SA-S70



Series SA-S90



Please reference the back of this catalog for more information on mounting options.

STH-15S Supervised Horn



| | | |
|----------------------|------|------------|
| Horn | | Order Code |
| STH-15-S | Gray | 7937 |
| STH-15-SR | Red | 7938 |
| Adapter Plate | | |
| SHMP-R | Red | 8154 |

| Setting | Impedence (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 | 90 | Not used | Not used | 2.0W | 93 |
| 2 | 2,500 | 1.8W | 93 | Not used | Not used | 4.0W | 96 |
| 3 | 1,300 | 3.8W | 96 | 0.48W | 87 | 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 |

| | |
|------------------------|------------------------------------|
| Power Rating: | 15 Watt Continuous |
| Frequency Response: | 400-4,000 Hz |
| Sensitivity: | 102 dB @ 15 Watts @ 10ft |
| Dispersion Angle: | 70° (-6 dB @ 2,000 Hz Octave Band) |
| Anechoic Measurements: | |
| Code 3 Tone: | 107.2 dBA |
| Slow Whoop: | 108.5 dBA |
| Siren: | 107.8 dBA |

Equipped with a compression driver providing up to 15 watts of power handling capability, superior intelligibility and dispersion to achieve maximum sound projection and penetration.

Available features and options:

Color: Red or Gray

Mounting: Wall or Ceiling

15 watt high efficiency Compression Driver

Weather resistant, vandal resistant

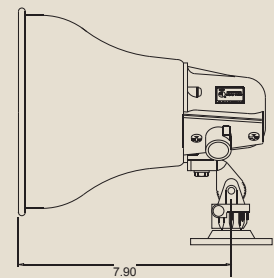
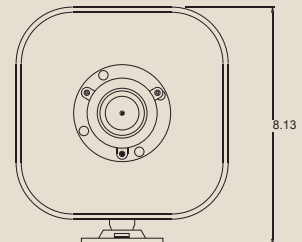
25/70/100V transformer

5 mfd capacitor for line supervision

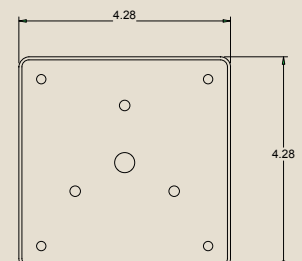
Univeral mounting bracket (SHMP)

Approvals: UL Standard 1480, CSFM

Series STH Horn



SHMP



Please reference the back of this catalog for more information on mounting options.

Designed for high ambient noise environments. Provides high intelligibility voice reproduction and available high intensity visual alerting for emergency alarm and protective signaling.

Available features and options:

- Color: Red
- Mounting: Wall or Ceiling
- Deliver up to 102 dB @15 watts @ 10ft per horn
- Omni-directional sound
- Strobe has 100cd at 60 double flashes per minute
- Prefabricated to a 10" x 10" x 6" steel enclosure
- Approvals: UL Standard 1480

STH Cluster with MAX Strobe



| | |
|----------|------------|
| | Order Code |
| STH-4MSR | 8157 |
| STH-3MSR | 8156 |
| STH-2MSR | 8155 |

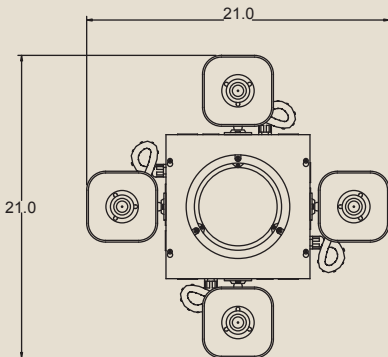
Speaker/Visual systems supplied with STH-15S horns and one DC-MAX-C Strobe mounted to a steel enclosure.

STH Cluster Speaker

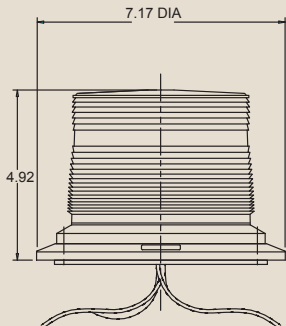
| | |
|--------|------------|
| | Order Code |
| STH-4R | 8186 |
| STH-3R | 9753 |
| STH-2R | 9752 |
| STH-2G | 0101 |

Speaker/Visual systems supplied with STH-15S horns mounted to a steel enclosure.

Series STH Horn



Series MAX Strobe



Note: Not intended for wash down areas or outdoor applications (See weatherproof series).

The Series Cluster Speakers with MAX strobes are not intended for UL required Fire Life Safety applications.

*The Series Cluster Speakers are a special order.

STH Weatherproof Cluster



STH-4M30WC

Order Code
9762

Speaker/Visual systems supplied with four STH-30 horns and one DC-MAX-C Strobe mounted to a fiberglass enclosure.

Designed for high ambient noise and outdoor environments. Provides high intelligibility voice reproduction and available high intensity visual alerting for emergency alarm and protective signaling.

Available features and options:

Color: Gray

Mounting: Wall, Ceiling or Roof

Deliver up to 125 dB @30 watts, 1 meter

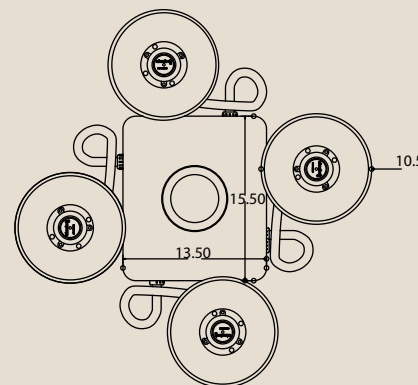
Omni-directional sound

Strobe has 100cd at 60 double flashes per minute

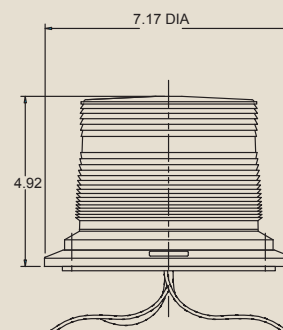
Prefabricated to a 13.5" x 10.5" x 6.25" fiberglass enclosure

Approvals: UL Standard 1638

Series STH Horn



Series MAX Strobe



*The Series Cluster Speakers are a special order.

Series STH Cluster Speakers with RSS-24MCCH Strobe and
Series STH Cluster Speakers with Three Strobes

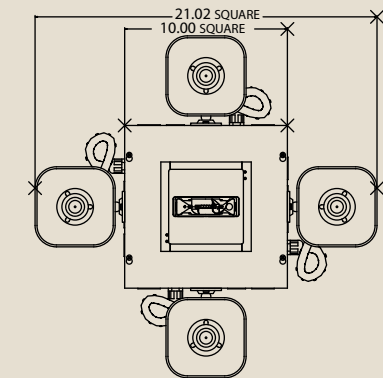


Designed for indoor ceiling mounting in high ambient noise environments and UL required Life Safety applications.

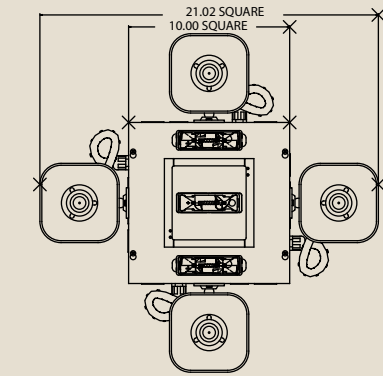
Available features and options:

- Color: Red
- Mounting: Ceiling
- Deliver up to 102 dB @15 watts @ 10ft per horn
- Omni-directional sound
- Selectable 115/177 candela
- Prefabricated to a 10" x 10" x 6" steel enclosure
- Strobe Synchronization
- Approvals: UL Standard 1480 (horns), UL Standard 1971 (RSS strobes), UL Standard 1638 (Colored lens strobes)

Series STH Cluster with RSS Strobe



Series STH Cluster with 3 Strobes



STH Cluster with RSS-24MCCH Strobe



| | | | | |
|-----------------|----------------|--|------------|--|
| 4 Horns | | | Order Code | |
| STH-4R24MCCH-FR | Red | | 3090 | |
| STH-4R24MCCH-NR | Red (no let) | | 3089 | |
| STH-4R24MCCH-FW | White | | 0235 | |
| STH-4R24MCCH-NW | White (no let) | | 0239 | |
| 3 Horns | | | | |
| STH-3R24MCCH-FR | Red | | 3145 | |
| STH-3R24MCCH-NR | Red (no let) | | 3144 | |
| STH-3R24MCCH-FW | White | | 0234 | |
| STH-3R24MCCH-NW | White (no let) | | 0238 | |
| 2 Horns | | | | |
| STH-2R24MCCH-FR | Red | | 3143 | |
| STH-2R24MCCH-NR | Red (no let) | | 3146 | |

Supervised Speaker Strobe supplied with 2, 3, or 4 STH-15SR horns and one RSS-24MCCH ceiling strobe (red, white, no lettering) mounted to a NEMA 1 steel enclosure.

| | | |
|-----------------|-------|-------|
| UL Max. Current | 115cd | 177cd |
| 24 VDC | 0.300 | 0.420 |

| | | |
|---------------------------------|------------|--|
| | Order Code | |
| STH-90-4R24MCCH-FR Red | 0522 | |
| STH-90-4R24MCCH-NR Red (no let) | 3227 | |

Supervised Speaker Strobe supplied with 2 STH-15SR horns mounted adjacent to each other, designed for a corner mount configuration and one RSS-24MCCH ceiling strobe (red, white, no lettering) mounted to a NEMA 1 steel enclosure.

STH Cluster with Three Strobes



| | | |
|-------------------------|------------|--|
| | Order Code | |
| STH-4R24MCCH110R-FR Red | 3810 | |
| STH-4R24MCCH110R-FB Red | 3827 | |
| STH-4R24MCCH110R-FG Red | 3826 | |
| STH-4R24MCCH110R-FA Red | 3829 | |

Supervised Speaker Strobe with four STH-15SR horns and one RSS-24MCCH ceiling strobe, no lettering, red plate and two RSS strobes with either amber, blue, green or red lens mounted to NEMA 1 steel enclosure

Refer to page 5-7 for more information on the colored lens strobes.
*The Series Cluster Speakers are a special order.

Synchronization Modules



| | | |
|------------|-----|-----------------|
| SM-12/24-R | Red | Order Code 6369 |
| SM-12/24-R | Red | 6374 |

| | UL Max. Current | | 1575cd |
|-----------|-----------------|--------|--------|
| | 24 VDC | 12 VDC | |
| SM-12/24 | 0.038 | 0.023 | |
| DSM-12/24 | 0.055 | 0.026 | |

Mounting Options: W

Sync Capability (With SM, DSM, PS-24-8MC)

| Model | Audible | Strobe | Model | Audible | Strobe |
|--------------------|---------|--------|--------------|---------|--------|
| AH-12 | Yes | - | ET90-24MCC | - | Yes |
| AH-24 | Yes | - | ET90-24MCCH | - | Yes |
| AH-12WP | Yes | - | HS-24 | Yes | - |
| AH-24WP | Yes | - | HS4-241575W | Yes | Yes |
| AMT-241575W | No | Yes | HS4-24MCW | Yes | Yes |
| AMT-241575W-FR-NYC | No | Yes | HS4-24MCWH | Yes | Yes |
| AMT-24MCW | No | Yes | MIZ-24S | Yes | - |
| AS-241575W | Yes | Yes | MT-121575W | No | Yes |
| AS-24MCC | Yes | Yes | MT-241575W | No | Yes |
| AS-24MCCH | Yes | Yes | MT-24MCW | No | Yes |
| AS-24MCW | Yes | Yes | MTWP-2475W | No | Yes |
| AS-24MCWH | Yes | Yes | NH-12/24 | Yes | - |
| ASWP-2475W | Yes | Yes | NH-12/24R | Yes | - |
| CH70-241575W | No | Yes | NS-121575W | Yes | Yes |
| CH7024MCW | No | Yes | NS-241575W | Yes | Yes |
| CH7024MCWH | No | Yes | NS-24MCW | Yes | Yes |
| CH90-24MCC | No | Yes | NS-24MCC | Yes | Yes |
| CH90-24MCCH | No | Yes | NS-24MCCH | Yes | Yes |
| E50-24MCW | - | Yes | RSS-241575W | - | Yes |
| E50-25MCWH | - | Yes | RSS-121575W | - | Yes |
| E50-241575W | - | Yes | RSS-24MCC | - | Yes |
| E60-24MCC | - | Yes | RSS-24MCCH | - | Yes |
| E60-24MCCH | - | Yes | RSS-24MCCHR | - | Yes |
| E70-241575W | - | Yes | RSS-24MCCR | - | Yes |
| E70-24MCW | - | Yes | RSS-24MCW | - | Yes |
| E70-24MCWH | - | Yes | RSS-24MCWH | - | Yes |
| E90-24MCC | - | Yes | RSSP-121575W | - | Yes |
| E90-24MCCH | - | Yes | RSSP-241575W | - | Yes |
| ET70-241575W | - | Yes | RSSP-24MCW | - | Yes |
| ET70-24MCW | - | Yes | RSSP-24MCWH | - | Yes |
| ET70-24MCWH | - | Yes | RSSWP-2475W | - | Yes |
| ET70WP-2475W | - | Yes | S8-24MCC | - | Yes |
| ET80-241575W | - | Yes | S8-24MCCH | - | Yes |
| ET80-24MCW | - | Yes | SA-S70-24MCW | - | Yes |
| ET80-24MCWH | - | Yes | SA-S90-24MCC | - | Yes |
| ET90-24MCW | - | Yes | SA-S90-24MCW | - | Yes |
| ET90-24MCWH | - | Yes | STH-MCCH | - | Yes |

Provides the ability to synchronize the strobe flashes and the code 3 temporal evacuation alarm produced by Cooper Wheelock Notification appliances. Also provides the ability to silence the audible alarm while maintaining the strobe flashes over a single pair of wires.

Available features and options:

Color: Red

Mounting: Wall

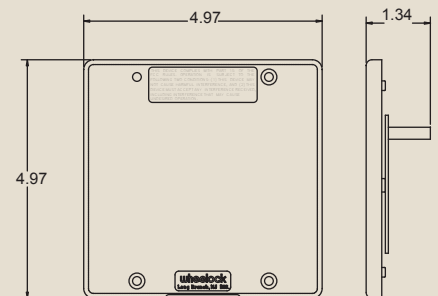
Square

Low operating current draw

3 ampere per circuit at 12 or 24 VDC

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

Series SM/DSM



Wall Mount Horn Strobes



SPST

MPS-100
MPS-200

| | Order Code | Mounting |
|-----|------------|-----------------|
| Red | 8400 | MPS-ISB, MPS-WP |
| Red | 8401 | MPS-ISB, MPS-WP |

DPST

MPS-300

| | | |
|-----|------|-----------------|
| Red | 8402 | MPS-ISB, MPS-WP |
|-----|------|-----------------|

Exlosion Proof

MPS-400X

| | | |
|-----|------|------------------|
| Red | 8403 | Backbox provided |
|-----|------|------------------|

Backboxes

MPS-ISB
MPS-WP

| | |
|-----|------|
| Red | 8404 |
| Red | 8405 |

Breakrods

MPS-RODS

| |
|------|
| 8406 |
|------|

Constructed of high quality, die-cast metal for long lasting performance and may be mounted on a single gang backbox.

Available features and options:

Color: Red enamel finish

Mounting: Wall

Single or dual action

Terminal Strip Connections

Key Reset

Corrosion resistant

Single gang backbox

Approvals: UL, FM, CSFM, MEA

MPS-100/MPS-200 Dimensions
4-3/4" H x 3-1/4" W x 1.1" D

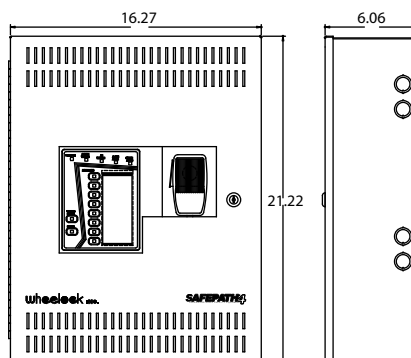
MPS-400 Dimensions
6-5/16" H x 3-1/4" W x 3-7/8" D

SP40S



| 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 |
| BAT-1212 | 7390 | 12 volt, 12-ampere hour battery |
| SP40S-PMK | 9936 | SP40S 8 Message Programmed Message Kit |
| AM-SP40S-SMK | 9937 | SP40S After Market 8 Message Standard Message Kit |
| AM-SP40S-PMK | 9938 | SP40S After Market 8 Message Programmed Message Kit |
| AM-SP40S-NBT | 9939 | Sp40S After Market Narrow Band Signal Tone Kit |
| SP-COA | 9908 | C.O. Port Adapter for the SP40S - Recommended 24 VDC Power Supply is Wheelock RPS-2406 (Order Code 3770) |

See back of this page for message scripts.



The SP40S is a Multi-Function Supervised Paging, Messaging, Background Music delivery and Emergency Voice Evacuation System with 24 VDC battery backup. It comes standard with an on-board digital voice messaging system with 8 standard messages, a hand-held microphone, power supply/battery charger and numerous additional features. The SAFEPATH4 system is expandable to 5280 watts utilizing the SPB-80/4 (80 watts and 4 amps of strobe power), the SPB-160 (160 watts) or SPB-320 (320 watts) supervised audio power boosters.

Available features and options:

40 watts supervised audio power
Speaker Outputs: 25V or 70.7V power limited

Approvals: UL Standard 864, 9th edition, UL Standard 1711, California State Fire Marshal (CSFM), New York City (MEA), FCC Part 15

OSHA 1910.165 and ADA compliant

Contact closure message activation

Dimensions: 21"H x 16" W x 6" D

Weight: 36lbs. (without batteries)

Finish: Red or black enclosure

Door Lock: Key lock

Compatible with all Wheelock power supply, speakers, strobes, clusters

Multi-use applications - The system can function as an evacuation system, an emergency messaging system, a paging system, an employee notification system and a background music system per NFPA 72 (2002), section 6.8.4 Combination Systems

Fire Code applications - The system is listed under UL Standard 864, 9th edition delivering supervised audio and voice messaging with strobes and notification appliance circuits (NAC) for visual alerting

Economic OSHA applications - The system is OSHA 1910.165 compliant; this means that it does not require reliability inspections every two months, or the required spare parts inventory

| Message and Priority # | Type of Message | Voice Type | Message Script |
|------------------------|--------------------------------|------------|---|
| 1 | Fire (do not use elevators) | Male | Three (3) rounds of code 3 horn (followed by): "May I have your attention please! A fire emergency has been reported in the building. While this is being verified, please leave the building by the nearest exit. Do not use the elevators." |
| 2 | Fire (do not use elevators) | Female | Three (3) rounds of code 3 horn (followed by): "May I have your attention please! A fire emergency has been reported in the building. While this is being verified, please leave the building by the nearest exit. Do not use the elevators." |
| 3 | Fire | Male | Three (3) rounds of code 3 horn (followed by): "May I have your attention please! A fire emergency has been reported in the building. While this is being verified, please leave the building by the nearest exit." |
| 4 | Emergency | Female | Three (3) rounds of code 3 horn (followed by): "May I have your attention please! A fire emergency has been reported in the building. While this is being verified, please leave the building by the nearest exit." |
| 5 | Emergency | Male | Three (3) rounds of code 3 horn (followed by): "May I have your attention please! A fire emergency has been reported in the building. While this is being verified, please leave the building and report to the designated assembly area for your group." |
| 6 | Weather | Male | Five (5) seconds of 1kHz tone (followed by): "May I have your attention please! The National Weather Service has issued a severe weather warning for our area." |
| 7 | All Clear | Male | Five (5) seconds of 1kHz tone (followed by): "May I have your attention please! The building emergency has ended. An all clear has been given. Please resume normal activities." |
| 8 | Test | Male | "May I have your attention please! This is a test of the Wheelock evacuation system, repeat, this is only a test." (5) seconds of 1kHz tone. |

SP4Z-A/B



| Model | 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.

Supervised 2-Zone Class A or 4-Zone Class B Speaker Audio Splitter for the SP40S, SP40/2 or Audio Boosters. 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.

Available features and options:

Approvals: UL Standard 864, 9th edition, and California State Fire Marshal (CSFM), New York City (MEA)

2 class A or 4 Class B

Removable wiring terminals for quick connect/disconnect accepting 12–22 AWG

All output circuitry is Power Limited

Space provided to allow for naming of the zones

Standby and Alarm current at 24VDC is 15mA

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 even during BGM. The SPB-80/4 also provides 4 Amps of 24 VDC Supervised and Synchronized Strobe Power.

The SPB-320, SPB-160 and the SPB-80/4 easily connects to the Wheelock SP40S or SP40/2. Multiple SPB-320, SPB-160 and SPB-80/4 Audio Boosters can be inter-connected to accommodate large installations with supervised audio power and also supervised and synchronized strobe power requirements.

Available features and options:

Approvals: UL Standard 864, 9th edition, and California State Fire Marshal (CSFM), New York City (MEA)

OSHA 1910.165, ADA and UFC compliant

70V or 25V input from the SP40S or SP40/2

1 Volt input from SP4-RMX

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)

70V or 25V field selectable supervised audio speaker outputs

Technical Specifications:

120VAC, 3.8A, 50 – 60 Hz input

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 +/- 3 dB
BGM 275 Hz - 15 kHz +/- 3 dB

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%

SPB-320, SPB-160 and SPB-80/4

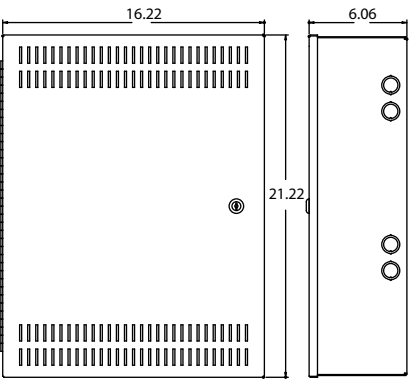


| Model | Order Code | Description |
|------------|------------|--|
| SPB-320 | 9918 | 320 Watt Supervised Audio Power Booster (Four 80 watt circuits) |
| SPB-160 | 8989 | 160 Watt Supervised Audio Power Booster (Two 80 watt circuits), red enclosure |
| SPB-160-B | 9930 | 160 Watt Supervised Audio Power Booster (Two 80 watt circuits), black enclosure |
| SPB-80/4 | 8988 | 80 Watt Supervised Audio Power Booster with 4 Amps of Supervised and Synchronized Strobe Power (Two 2 Amp circuits), red enclosure |
| SPB-80/4-B | 9931 | 80 Watt Supervised Audio Power Booster with 4 Amps of Supervised and Synchronized Strobe Power (Two 2 Amp circuits), black enclosure |
| SPMB4Z | 9907 | Speaker Splitter Mounting Bracket for SPB-320, SPB-160 or SPB-80/4 |

SPB-80/4 and SPB-160

Dimensions: 21"H x 16" W x 6" D

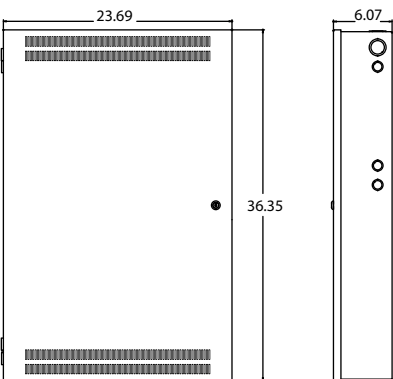
Weight: 36 lbs. (without batteries)



SPB-320

Dimensions: 36"H x 24" W x 6" D

Weight: 80 lbs. (without batteries)



SP4-APS and SP4-TZC



| Model | Order Code | Description |
|----------|------------|-----------------------------|
| SP4Z-APS | 9920 | Addressable Paging Splitter |
| SP4-TZC | 9921 | Telephone Zone Controller |
| TZC-USB | 9923 | SP4-TZC Programming Cable |

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 or SP40/2 via the BGM input

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

Designed for the ability to access individual or multiple speaker zones throughout the SP40S or SP40/2 system via the telephone

Available features and options

SP4-TZC Telephone Zone Controller:

Connects to the SP40S or SP40/2

Custom user programmable (for logical zones)

All call or selected zone(s) telephone paging

Background music (BGM) zone(s) selectable

Telephone input and background music (BGM) input

Enclosure for the SP4-TZC (controller):

Dimensions: 13"H x 7.6"W x 2.15"D

Color: Black

Wall mountable

Requires 24 VDC, model RPS-2406

SP4-APS Addressable Paging Splitter:

Addressable speaker zone splitter

For SP40S, SP40/2, SPB-80/4, SPB-160 or SPB-320

Handles 40 watts of supervised audio per zone

UL Standard 864, 9th edition listed

Allows manual volume setting for telephone paging and background music for a specific speaker or speaker zone

Available features and options:

Supervised volume control for use with UL Listed Life Safety Applications

Can handle up to 35 watts of 70.7 volt audio power input

Adjustment settings: 0 – 10, in 3dB increments

Operates in Class B or Class A wiring (for Class A, the SP4-APS is required)

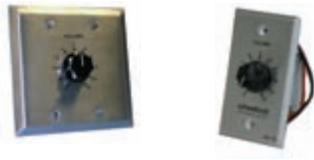
Mounts to a double gang, 3½” deep back box or 4” square and 1-1/2” deep box with a 1-1/2” extension ring and a double gang mud ring

Stainless steel mounting plate with a black knob

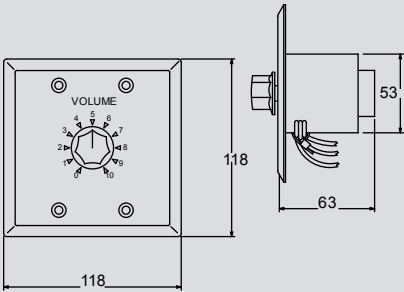
UL Standard 864 and California State Fire Marshal (CSFM) listed for use with the SP40S, SP40/2 or SPB Audio Boosters

OSHA 1910.165 and ADA compliant

SP-SVC



| Model | Order Code | Description |
|--------|------------|--|
| SP-SVC | 9926 | Supervised Volume Control for use with the SAFEPATH®4 system |



SPRM Remote Microphone



| Model | 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 |

Remote Microphone for use with the SAFEPATH®4 Facility Communications System - SP40S, SP40/2 or SP4-RMX. Provides for an additional microphone in a remote location. Can be mounted up to 2,000 feet away from the SP40S or SP40/2.

Available features and options:

Approvals: UL Standard 864, 9th edition and California State Fire Marshal (CSFM)

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

Input current: Standby: 26mA
Alarm: 38mA

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

AC and DC MAX Strobes



**120 VAC
Double Flash**

| | | Order Code |
|----------|-------|------------|
| AC-MAX-A | Amber | 8120 |
| AC-MAX-B | Blue | 8121 |
| AC-MAX-C | Clear | 8122 |
| AC-MAX-R | Red | 8124 |

**Double Flash w/
two 7 watt lamps**

| | | |
|-----------|-------|------|
| AC-MAXS-A | Amber | 8125 |
| AC-MAXS-B | Blue | 8126 |
| AC-MAXS-C | Clear | 8127 |
| AC-MAXS-R | Red | 8129 |

**10.5 - 31.0 VDC
Double Flash**

| | | Order Code |
|----------|-------|------------|
| DC-MAX-A | Amber | 8130 |
| DC-MAX-B | Blue | 8131 |
| DC-MAX-C | Clear | 8132 |
| DC-MAX-R | Red | 8134 |

**Double Flash w/
two 7 watt lamps**

| | | |
|-----------|-------|------|
| DC-MAXS-A | Amber | 8135 |
| DC-MAXS-B | Blue | 8136 |
| DC-MAXS-C | Clear | 8137 |
| DC-MAXS-R | Red | 8139 |

| AC-MAX and AC-MAXS | | |
|--------------------|------------------------|----------------|
| Color | Effective Candela (cd) | Current Draw |
| Amber | 80cd | 0.20 @ 120 VAC |
| Blue | 12cd | |
| Clear | 100cd | |
| Red | 20cd | |
| Steady Light Lamps | | 120 mA |

| DC-MAX and DC-MAXS | | |
|--------------------|------------------------|---|
| Color | Effective Candela (cd) | Current Draw |
| Amber | 80cd | 1227 mA @ 10.5 VDC |
| Blue | 12cd | 1010 mA @ 12 VDC |
| Clear | 100cd | 470 mA @ 24 VDC |
| Red | 20cd | 344 mA @ 31 VDC |
| Steady Light Lamps | | 655 mA |
| DC Inrush | | 5A Max @ 12 V 10A Max @ 24 V 12A Max @ 31 V |

Designed for high intensity, weather resistant visible warning signals for stationary or mobile use such as industrial signaling, strobe beacons, area identification and hazard warnings/alerting.

Available features and options:

Color: Amber, Blue, Clear, Red

Mounting: 1/2" pipe, surface mount, flange mount, standard 4" square backbox or the Wheelock WBB weather resistant backbox

Powerful double flash light burst

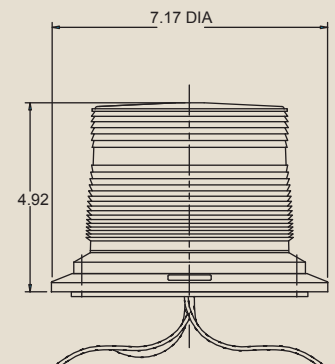
60 double flashes per minute

Durable Lexan® lens construction

AC and DC applications

Approvals: UL Standard 1638 for indoor and outdoor use

Series MAX



Note: Series MAX Strobes are not intended for wash down areas.

AC and DC MAX Strobes



**120 VAC
Double Flash**

| | | Order Code |
|----------|-------|------------|
| AC-MAX-A | Amber | 8120 |
| AC-MAX-B | Blue | 8121 |
| AC-MAX-C | Clear | 8122 |
| AC-MAX-R | Red | 8124 |

**Double Flash w/
two 7 watt lamps**

| | | |
|-----------|-------|------|
| AC-MAXS-A | Amber | 8125 |
| AC-MAXS-B | Blue | 8126 |
| AC-MAXS-C | Clear | 8127 |
| AC-MAXS-R | Red | 8129 |

**10.5 - 31.0 VDC
Double Flash**

| | | Order Code |
|----------|-------|------------|
| DC-MAX-A | Amber | 8130 |
| DC-MAX-B | Blue | 8131 |
| DC-MAX-C | Clear | 8132 |
| DC-MAX-R | Red | 8134 |

**Double Flash w/
two 7 watt lamps**

| | | |
|-----------|-------|------|
| DC-MAXS-A | Amber | 8135 |
| DC-MAXS-B | Blue | 8136 |
| DC-MAXS-C | Clear | 8137 |
| DC-MAXS-R | Red | 8139 |

| AC-MAX and AC-MAXS | | |
|--------------------|------------------------|----------------|
| Color | Effective Candela (cd) | Current Draw |
| Amber | 80cd | 0.20 @ 120 VAC |
| Blue | 12cd | |
| Clear | 100cd | |
| Red | 20cd | |
| Steady Light Lamps | | 120 mA |

| DC-MAX and DC-MAXS | | |
|--------------------|------------------------|---|
| Color | Effective Candela (cd) | Current Draw |
| Amber | 80cd | 1227 mA @ 10.5 VDC |
| Blue | 12cd | 1010 mA @ 12 VDC |
| Clear | 100cd | 470 mA @ 24 VDC |
| Red | 20cd | 344 mA @ 31 VDC |
| Steady Light Lamps | | 655 mA |
| DC Inrush | | 5A Max @ 12 V 10A Max @ 24 V 12A Max @ 31 V |

Designed for high intensity, weather resistant visible warning signals for stationary or mobile use such as industrial signaling, strobe beacons, area identification and hazard warnings/alerting.

Available features and options:

Color: Amber, Blue, Clear, Red

Mounting: 1/2" pipe, surface mount, flange mount, standard 4" square backbox or the Wheelock WBB weather resistant backbox

Powerful double flash light burst

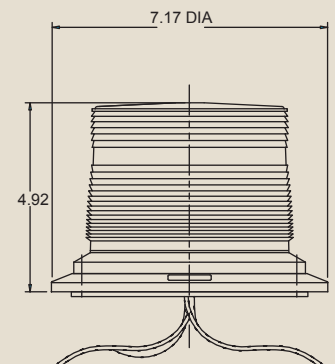
60 double flashes per minute

Durable Lexan® lens construction

AC and DC applications

Approvals: UL Standard 1638 for indoor and outdoor use

Series MAX



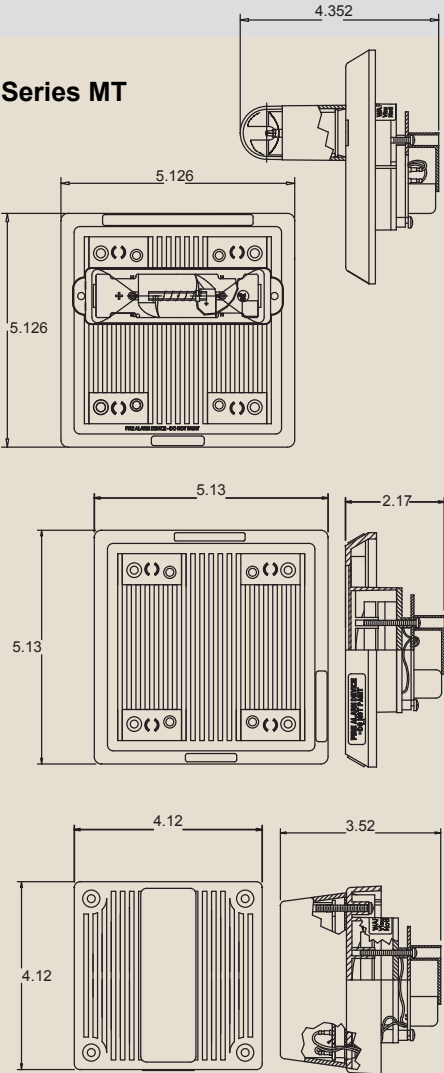
Note: Series MAX Strobes are not intended for wash down areas.

Offer of choice of eight alerting sounds: Horn, Bell, March Time Horn, Code-3 Tone, Code-3 Horn, Slow Whoop, Siren or Hi/Lo Tone. One alarm appliance can provide superior sound penetration for various ambient and room conditions with two field selectable sound output levels.

Available features and options:

- Color: Red, White
- Mounting: Wall, Ceiling
- Multi-Candela
- 12, 24 VDC and 120 VAC
- Standard Backboxes
- Approvals: UL, ULC, FM, CSFM, MEA, BFP

Series MT



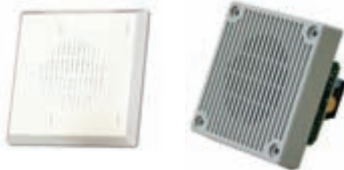
Wall Mount Multitone Strobes



| | | |
|-------------------------|-------|------------|
| 15/30/75/110cd | | Order Code |
| MT-24MCW-NW | White | 3305 |
| 75cd (WithProof) | | |
| MTWP-2475W-NW | White | 9744 |
| 1575cd | | |
| MT-121575W-NW | White | 9747 |
| 15cd | | |
| MT4-115-WH-VNS | Gray | 6143 |

Mounting Options: D,E,F,J,L,M,N,O,P,R (MT)
D,E,J,K,N,O,R (MT4)

Wall or Ceiling Mount Multitones



| | |
|-------------|-------------|
| | Order Code |
| MT-12/24-W | White 5024 |
| MT4-12/24-S | Silver 7997 |
| MT4-115-S | Silver 6142 |

Mounting Options: D,E,F,J,L,M,N,O,P,R (MT)
D,E,J,K,N,O,R (MT4)

Strobe Ratings

| UL Max. Current | 15cd | 30cd | 75cd | 110cd |
|-----------------|-------|-------|-------|-------|
| 24 VDC | 0.060 | 0.092 | 0.165 | 0.220 |

| UL Max. Current | 1575cd |
|-----------------|--------|
| 24 VDC | 12 VDC |
| 0.090 | 0.255 |

Audible Ratings

| UL Max. Current | 24 VDC | | 12 VDC | | 120 VAC | |
|-----------------|--------|---------|--------|---------|---------|---------|
| | HI Out | STD Out | HI Out | STD Out | HI Out | STD Out |
| Horn | 0.108 | 0.044 | 0.177 | 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 | 0.050 |
| Siren | 0.104 | 0.036 | 0.152 | 0.030 | 0.045 | 0.045 |
| Hi/Lo | 0.057 | 0.025 | 0.114 | 0.026 | 0.042 | 0.042 |

| | dBA @ 10 ft. (UL Reverberant) | | dBA @ 10 ft. (anechoic) | | dBA @ 10 ft. (UL Reverberant) | |
|-----------------|-------------------------------|---------|-------------------------|---------|-------------------------------|---------|
| dBA | 24 VDC | 12 VDC | 12 and 24 | 120 VAC | | |
| | HI Out | STD Out | HI Out | STD Out | HI Out | STD Out |
| Horn | 92 | 87 | 90 | 77 | 99 | 93 |
| Bell | 86 | 80 | 85 | 69 | 92 | 87 |
| March Time Horn | 89 | 84 | 89 | 74 | 99 | 93 |
| Code-3 Horn | 88 | 83 | 88 | 73 | 99 | 93 |
| Code-3 Tone | 85 | 80 | 84 | 70 | 95 | 90 |
| Slow Whoop | 90 | 89 | 89 | 75 | 99 | 94 |
| Siren | 89 | 84 | 89 | 75 | 98 | 93 |
| Hi/Lo | 86 | 81 | 86 | 71 | 93 | 88 |

Please reference the back of this catalog for more information on mounting options.

WH Remote Strobes



115 VAC

WH1T-115-NS
WH3T-115-NS

Order Code
Gray 3515
Gray 3563

| Voltage | Strobe Candela | Current Draw |
|---------|----------------|--------------|
| 115 VAC | 15 | 0.06 |

Mounting Options: B (WH1T)
K,N (WH3T)

Wall or Ceiling Mount Horns



MTH-24

Order Code
Gray 3801

| Voltage | Current @ 24 VDC | dBA @ 1 meter |
|---------|------------------|---------------|
| 24 VDC | 600mA | 117 |

WH Strobes deliver a high intensity flash and can be used to provide visual alerts for personnel or visitors in the workplace.

MTH-24 is a loud, weather resistant, attention getting alert designed for use in noisy or large locations.

Available features and options:

Color: Beige

Mounting: Wall

115 VAC (WH)

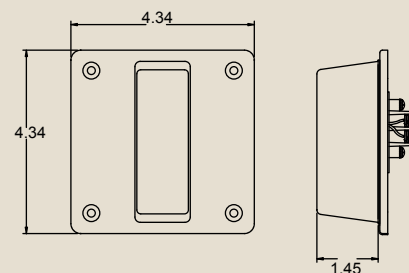
117 dBA @ 1 meter (MTH)

Built in 10 watt amplifier (MTH)

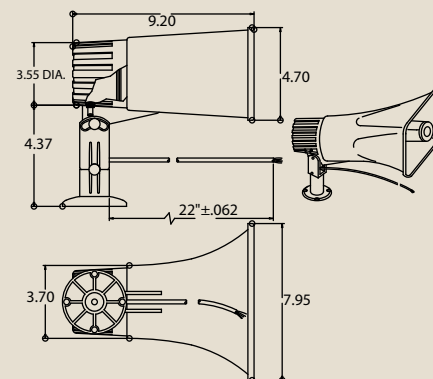
Telephone extension alert (MTH)

Auxiliary alert (MTH)

Series WH3T



Series MTH-24



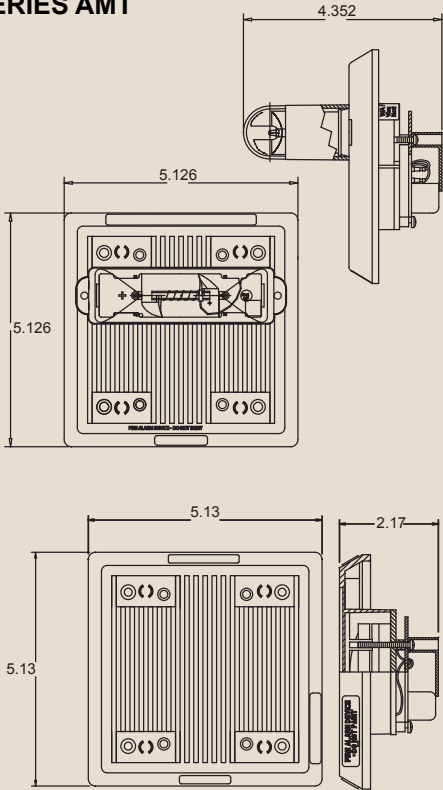
Please reference the back of this catalog for more information on mounting options.

Ideal for 4 wire designs that require a choice of 8 selectable alerting sound for various ambient and wall conditions and two selectable sound outputs.

Available features and options:

- Color: Red, White
- Mounting: Wall
- Multi-Candela
- Square
- Replaceable Grills
- Standard Backboxes
- Strobe Synchronization
- Approvals: UL, ULC, FM, CSFM, MEA, BFP

SERIES AMT



Please reference the back of this catalog for more information on mounting options.

Wall Mount Multitone Strobes



15/30/75/110cd
AMT-241575W-NW White 3047

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

| | |
|-----------------|--------|
| UL Max. Current | 1575cd |
| | 24 VDC |
| | 0.090 |

Wall or Ceiling Mount Multitones



AMT-12/24-W White 5893

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

Audible Ratings

| Current Ratings for AMT Multitone Audible Signals | | | | | | AMT dBA Ratings | | AMT w/ Strobe | |
|---|---|------------------------------|---------|------------------------------|---------|---|-----|---|-----|
| Tone | Tone Description | Rated Average Current (AMPS) | | Rated Average Current (AMPS) | | Typical Anechoic dBA @ 10 Feet at Nominal | | Typical Anechoic dBA @ 10 Feet at Nominal | |
| | | 24 VDC | | 12 VDC | | Input Voltage | | Input Voltage | |
| | | HI dBA | STD dBA | HI dBA | STD dBA | HI | STD | HI | STD |
| Horn | Broadcast Horn (Continuous) | 0.108 | 0.043 | 0.210 | 0.058 | 98 | 92 | 97 | 91 |
| Bell | 1560 Hz Modulated (0.07 Sec. ON/Repeat) | 0.057 | 0.026 | 0.117 | 0.031 | 91 | 86 | 89 | 84 |
| March Time Horn | Horn (0.25 Sec. ON/0.25 Sec. OFF/Repeat) | 0.108 | 0.035 | 0.210 | 0.059 | 98 | 91 | 97 | 91 |
| Code-3 Horn | Horn (ANSI S3.41 Temporal Pattern) | 0.108 | 0.043 | 0.210 | 0.057 | 98 | 92 | 97 | 91 |
| Code-3 Tone | 500Hz (ANSI S3.41 Temporal Pattern) | 0.060 | 0.030 | 0.168 | 0.052 | 94 | 89 | 93 | 88 |
| Slow Whoop | 500-1200Hz Sweep (4.0 Sec. ON/0.05 Sec. OFF/Repeat) | 0.112 | 0.044 | 0.182 | 0.056 | 98 | 93 | 97 | 92 |
| Siren | 600-1200Hz Sweep (1.0 Sec. ON/Repeat) | 0.102 | 0.038 | 0.177 | 0.055 | 97 | 92 | 96 | 91 |
| Hi/Lo | 1000-800Hz (0.25 Sec. ON/Alternate) | 0.064 | 0.030 | 0.131 | 0.028 | 92 | 87 | 91 | 86 |
| Vibrating Chime | 700Hz (1.0 Sec Delay/Repeat) | 0.041 | 0.020 | 0.090 | 0.028 | 88 | 82 | 87 | 81 |

Ceiling and Wall Mount



| Strobes 15/30/75/95cd | Lens Color | Order Code |
|--|-------------------|-------------------|
| RSSA-24MCC-NW | Amber | 0202 |
| RSSB-24MCC-NW | Blue | 0203 |
| RSSG-24MCC-NW | Green | 0204 |
| RSSR-24MCC-NW | Red | 3111 |

| Strobe Plates 15/30/75/95cd | | |
|--|-------|------|
| RSSPA-24MCC-NW | Amber | 3308 |

| Wthproof Strobe 75cd | | |
|---------------------------------------|-------|------|
| RSSWPA-2475W-NW | Amber | 0240 |

| Speaker Strobes 15/30/75/95cd | | |
|--|-------|------|
| E70A-24MCC-NW | Amber | 0209 |
| E70B-24MCC-NW | Blue | 0210 |
| E90A-24MCC-NW | Amber | 0213 |
| E90B-24MCC-NW | Blue | 0214 |

| Multitones | | |
|-------------------|-------|------|
| MTWPA-2475W-NW | Amber | 1649 |
| MTWPB-2475W-NW | Blue | 1652 |

| UL Max. Current | 15cd | 30cd | 75cd | 95cd |
|-----------------|-------|-------|-------|-------|
| 24 VDC | 0.045 | 0.070 | 0.119 | 0.159 |

Candela is measured on axis per UL 1638. Models with MCC strobes have 4 field selectable candela settings. MCC settings are rated for clear lens - derate approximately 25% for amber, 55% for green and 70% for blue lenses.

Designed for effective alerting of employees or personnel in industrial, military or government applications.

Available features and options:

Color: White

Mounting: Wall, Ceiling

Wide operating voltage range

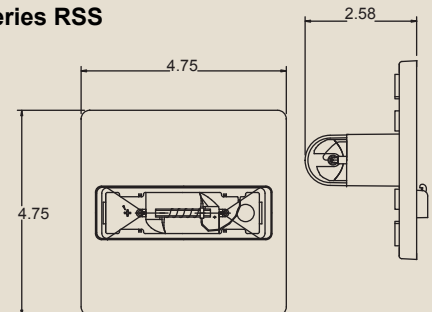
Round, Square

Strobe Color: Amber, Blue, Green and Red

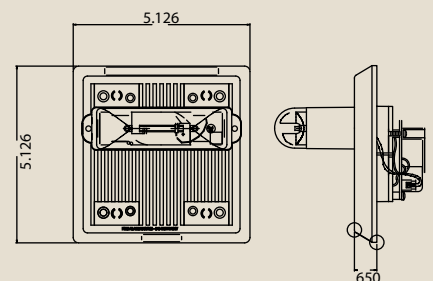
Mount to standard electrical back-boxes

Combination speaker/strobes

Series RSS



Series MTWP



Please see page 2-2 for E70 and E90 product dimensions.

Please reference the back of this catalog for more information on mounting options.

Audible and Audible Strobe

| Model Number | Order Code | Description |
|--------------|------------|-----------------------------------|
| ASR-DC | 4072 | Audible only, 24VDC |
| ASR-AC | 4073 | Audible only, 115/230VAC |
| ASRS-A-DC | 4074 | Audible Strobe, 24VDC, Amber lens |
| ASRS-R-DC | 4075 | Audible Strobe, 24VDC, Red lens |
| ASRS-B-DC | 4076 | Audible Strobe, 24VDC, Blue lens |

| | |
|--|-----------------------|
| Nominal Voltage: | 24VDC, 115/230VAC |
| Current Consumption (tone dependant): | Between 190mA - 460mA |
| Sound Output (tone dependant): | Between 88dB - 120dB |
| Alarm Tones: | 44 |
| IP Rating: | IP66 |
| Lens Color: | Red |
| Flash Rate: | 60 per min |
| Color: | Off White |
| Strobe Type: | U-Tube |

Provide a range of warning alarms and strobes designed to cope with harsh environments providing weatherproof protection.

Available features and options:

120dB(A) Output

Three stage alarm

More light where required with asymmetric lens

Easy access for installation with shallow base format

44 Tones

Weatherproof

Versatile and rugged alarm designed for industrial environments or areas where there is a requirement for a physically robust and well-protected unit.

Available features and options:

- 110dBA Output
- Weatherproof
- Simple First & Second Installation
- Fully Integrated High Efficiency Strobe
- 32 Alarm Tones
- Two Stage Alarm

Audible and Audible Strobe



| Model Number | Order Code | Description |
|--------------|------------|--|
| MID-DC | 4079 | Audible only, 9 – 60VDC |
| MID-AC | 4080 | Audible only, 115/230VAC |
| MIDS-A-DC | 4081 | Audible strobe, 9 – 60VDC, Amber lens |
| MIDS-A-AC | 4082 | Audible strobe, 115/230VAC, Amber lens |
| MIDS-R-DC | 4082 | Audible strobe, 9 – 60VDC, Red lens |
| MIDS-R-AC | 5230 | Audible strobe, 115/230VAC, Red lens |
| MIDS-B-DC | 4083 | Audible strobe, 9 – 60VDC, Blue lens |
| MIDS-B-AC | 5232 | Audible strobe, 115/230VAC, Blue lens |

| | |
|--|------------------------|
| Nominal Voltage: | 9 to 60VDC, 115/230VAC |
| Current Consumption (tone dependant): | 320mA, 40mA |
| Sound Output (tone dependant): | 110dB(A) |
| Alarm Tones: | 32 |
| IP Rating: | IP66 |
| Color: | Off White |
| Flash Rate: | 1 Hz |
| Strobe Type: | Xenon |

Voice Alarm



| Model Number | Order Code | Description |
|--------------|------------|----------------|
| CLR-DC | 4071 | Audible, 24VDC |

| | |
|--|-----------|
| Nominal Voltage: | 24VDC |
| Current Consumption (tone dependant): | 20mA |
| Sound Output (tone dependant): | 102dB |
| Alarm Tones: | 1 |
| IP Rating: | IP65 |
| Color: | Off White |
| Messages per sounder: | 1 |

Can be used in many applications where normal tone alarms are simply unable to convey sufficient information. The simplicity of these single message units allows them to operate in multiples on regular alarm circuits without the need for separate synchronizing units.

Available features and options:

Alarm tone and voice message

102dBA Output

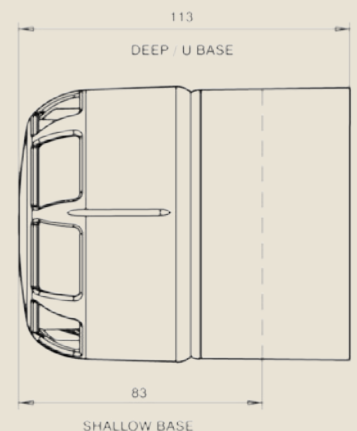
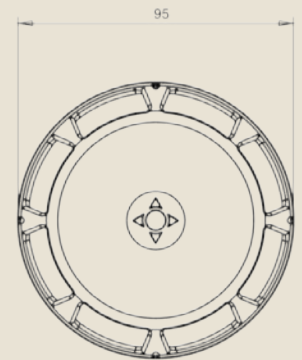
20mA @ 24VDC

Synchronized voice messages

Volume control

Standard message library (other messages available on request)

Base compatible with the series ROS, FLS and SLS



Combines a high output audible alarm with a strobe that makes it the perfect choice for many applications including security and process alarms.

Available features and options:

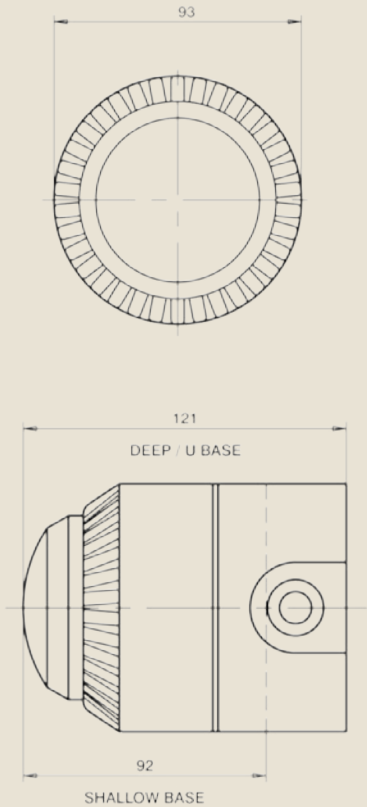
- High sound output
- 24VDC
- Automatic synchronization
- Choice of lens and alarm color combinations
- Base compatible with the Series ROS and CLR
- Weatherproof

Audible Strobe



| Model Number | Order Code | Description |
|--------------|------------|-------------|
| FLS-R-DC | 4068 | Red Lens |
| FLS-A-DC | 4069 | Amber Lens |
| FLS-B-DC | 4070 | Blue Lens |

| | |
|---------------------------------------|------------|
| Nominal Voltage: | 24VDC |
| Current Consumption (tone dependant): | 68mA |
| Sound Output (tone dependant): | 101dB |
| Alarm Tones: | 32 |
| IP Rating: | IP65 |
| Color: | Off White |
| Flash Rate: | 60 per min |
| Strobe Type: | U-Tube |



Multitone Audible Alarm



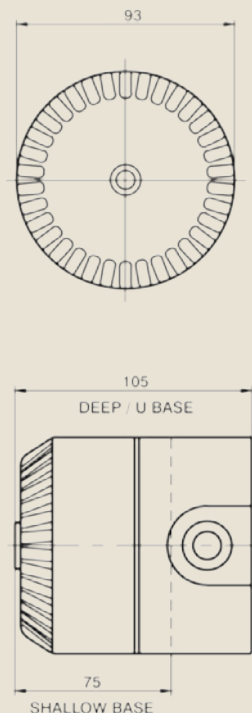
| Model Number | Order Code | Description |
|--------------|------------|---------------|
| ROS-DC | 4064 | Audible Alarm |

| | |
|--|----------------------|
| Nominal Voltage: | 12/24Vdc |
| Current Consumption (tone dependant): | Between 6 - 33mA |
| Sound Output (tone dependant): | Between 64dB - 111dB |
| Alarm Tones: | 32 |
| IP Rating: | IP65 |
| Color: | Off White |
| Mounting: | Wall |

Can be used in applications such as security, general signaling and process alarms. The wide operating voltage and range of tones available makes this product adaptable to many uses.

Available features and options:

- High Sound Output
- Low Current Consumption
- 32 Tones User Selectable
- Automatic Synchronization
- Volume Control
- Base Compatible with the Series CLR and FLS
- Weatherproof



Has a wide operating voltage range and automatic synchronization which makes it a universal solution for all types of applications. The Series SLS can be mounted outdoors when used with a DB backbox.

Available features and options:

- Wide operating voltage up to 60VDC
- Current surge suppression
- Automatic synchronization
- High efficiency
- Constant base performance over voltage range
- Strobe can be locked onto base
- Tamper switch for security applications
- Weatherproof when used with deep base (DB)

Strobe



| Model Number | Order Code | Description |
|--------------|------------|-------------|
| SLS-A-DC | 4087 | Amber Lens |
| SLS-R-DC | 4088 | Red Lens |
| SLS-B-DC | 4089 | Blue Lens |

| | |
|-----------------------------|---|
| Voltage: | 10-60 VDC |
| Current: | 220mA at 24VDC (includes current surge suppression) |
| Light Source: | Xenon |
| Light Output: | 15 CD (based on red lens) |
| IP Rating: | IP65 when used with deep base |
| Color: | Off White |
| Flash Rate: | 1 Hz |
| Synchronization: | 1ms over 30 min |
| Anti-tamper (where fitted): | Normally closed contacts. Contacts open when strobe removed from base |

Multitone Audible Alarm



| Model Number | Order Code | Description |
|--------------|------------|----------------------|
| SQA-DC | 4067 | Audible Alarm, 12/24 |

| | |
|--|-----------------------|
| Nominal Voltage: | 12/24Vdc |
| Current Consumption (tone dependant): | Between 3 - 10mA |
| Sound Output (tone dependant): | Between 83dB - 97dB |
| Alarm Tones: | 4 |
| IP Rating: | IP42 |
| Color: | Off White |
| Sounder Type: | Platform/base sounder |
| Approvals: | UL |

Extremely efficient base sounder that offers ultra-low power operation. Its low current draw and reduced installation costs make it appropriate for many applications.

Available features and options:

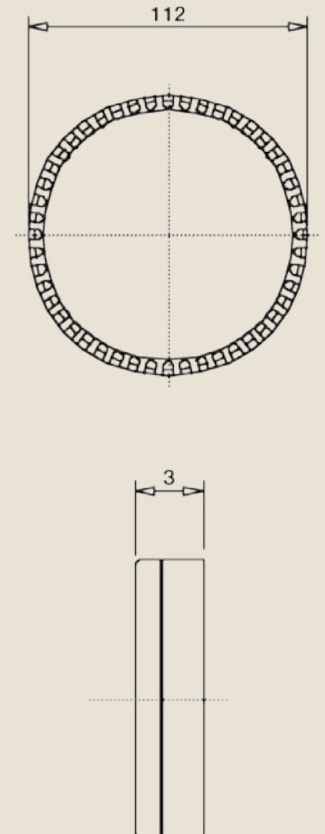
Low Current Consumption

Blank cover for use as a stand alone alarm

Reduced installation costs

Color matched to leading manufacturers detectors

Fixing platform for detector bases



Constructed in a weatherproof housing allowing use in external locations or environments where both high noise levels and moisture are present.

Available features and options:

Ultra high 120dBA output

32 tones

Low current to reduce power supply requirements

Synchronized start

Double entry backbox for simplified installation

Weatherproof

Multitone Audible Alarm



| | | |
|---------------------------------------|---------------------------|-------------|
| Model Number | Order Code | Description |
| SYM-DC | 4087 | Amber Lens |
| | | |
| Nominal Voltage: | 12/24Vdc | |
| Current Consumption (tone dependant): | Between 190 - 260mA | |
| Sound Output (tone dependant): | Between 88dB - 120dB | |
| Alarm Tones: | 32 | |
| IP Rating: | IP66 | |
| Color: | Off White | |
| Sounder Type: | Weatherproof wall sounder | |

Deep Base



| Model Number | Order Code | Description |
|--|--------------------|--------------------------|
| DB | 4090 | Deep base |
| DB-AC | 4091 | Deep base + Mains module |
| Voltage: 110/230VAC (100 mA max) | | |
| Color: | Off White | |
| Current Consumption (tone dependant): | (2) 1/2" knockouts | |

Designed for surface wiring of all types and provides weatherproof protection.

Available features and options:

- Locking capability
- Weatherproof
- FR ABS material
- Used with Series ROS, FLS, CLR, SLS

Universal Telephone Alert



| | | 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

| | | |
|-----------------|-----------|---|
| Horn | 82-109 dB | Broadband Horn |
| Bell | 76-104 dB | 1560 Hz Modulated (0.07 Sec. ON/Repeat) |
| Vibrating Chime | 68-94 dB | 700 Hz (1.0 Sec. Decay/Repeat) |
| Single Chime | 68-94 dB | 700 Hz (1.0 Sec. Decay) |

| Model Number | Tones | dB @ 3 Feet (1 meter) | | | | Ring Voltage | | | REN |
|---------------|-----------------|-----------------------|--------|--------|---------------|--------------|--------|--------|--------|
| | | 48 VDC | 24 VDC | 24 VAC | 90 VRMS 20 Hz | 48 VDC | 24 VDC | 24 VAC | |
| UTA-1 | Horn | 107 | 108 | 105 | 104 | 26 | 30 | 46 | 1.6 |
| | Bell | 100 | 100 | 102 | 100 | 10 | 9 | 39 | 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 | .6 |
| | Bell | 104 | 104 | 104 | 104 | 3 | 2.5 | 4 | .6 |
| | Vibrating Chime | 94 | 94 | 94 | 94 | 3 | 2.5 | 4 | .6 |
| | Single Chime | 94 | 94 | 94 | 94 | 3 | 2.5 | 4 | .6 |
| Voltage Range | | | | | | 36-60 | 20-30 | 20-30 | 40-130 |

Loud, attention getting electronic ringers designed for use in noisy locations or for wide area coverage. Operates off the telephone ringer voltage.

Available features and options:

Color: Gray

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

High output 109 dB piezo speaker

Tamper resistant volume control

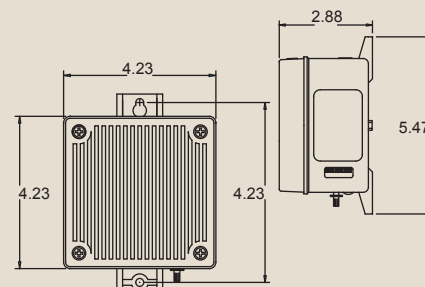
Dip switch selectable

Low current draw and REN

Approvals: UL Standard 1950

Multiple voltage activation

Series UTA



Note: Not intended for wash down areas.

PS Telestrobes emit a high intensity flashing light when the telephone rings. Designed for alerting the hearing impaired, for use in high ambient noise environments, quiet hospital zones, libraries and broadcast studios.

Available features and options:

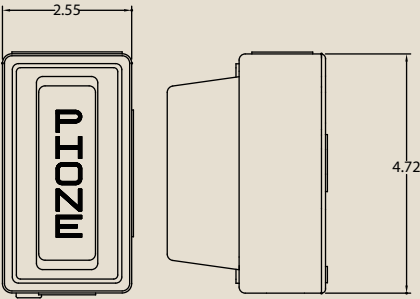
- Single line phones
- RJ-11C modular plug-in connection
- Long life, low power consumption
- Easily mounts to interior surfaces
- Approvals: UL Standard 1459

Telestrobes



| | | Order Code | Input Voltage | REN | Peak Candlepower |
|-----------------------------|---------------------------|------------|-----------------------------|-----|---------------------|
| Single Analog Phone Line | PS-11A-WPA | Gray 3858 | 40-130 V, 16-68 Hz, 115 VAC | 3 | 70,000 |
| | PS-15A-WPW | Gray 3413 | 50-130 V, 20-30 hZ | 1.5 | 8,000 |
| | Low Voltage PS-33A-WPA | Gray 3209 | 18-30 VAC or VDC | N/A | 25,000 |

Series PS



Telephone Alerts



**Chime
Up to 1000 sq. ft.**

CH-AT1-W
CH-AT2-W

| Order Code | Nominal Input Current or Voltage | Input Current or Voltage Range | dBa @ 1 meter | REN |
|------------|----------------------------------|--------------------------------|---------------|-----|
| Gray 3198 | 90 VRMS, 20-30 Hz | 50-130 VRMS, 20-30 Hz | 80 | 0.4 |
| Gray 3199 | 0.02 | 18-30 VAC or VDC | 80 | N/A |

**Chime
1000-5000 sq. ft.**

CH-BT1
CH-BT2
CH-BT4

| | | | | |
|-----------|-------------------|-----------------------|----|-----|
| Gray 3823 | 90 VRMS, 20-30 Hz | 40-130 VRMS, 20-30 Hz | 90 | 0.4 |
| Gray 4077 | 0.02 Amps | 18-30 VAC or VDC | 90 | N/A |
| Gray 4078 | 0.01 Amps | 38-60 VDC | 90 | N/A |

**Warble
1000-5000 sq. ft.**

WR-AT1-W

| | | | | |
|-----------|-------------------|-----------------------|----|-----|
| Gray 3862 | 90 VRMS, 20-30 Hz | 50-130 VRMS, 20-30 Hz | 90 | 0.8 |
|-----------|-------------------|-----------------------|----|-----|

CH-AT1-W, WR-AT1-W and CH-BT1 can be used on the Public Telephone Network or behind PBX with interrupted ring voltages from 40-130 V, 20-30 Hz.

High quality, compact signaling devices. Easily connects to phone systems. Enables any moderately noisy environments to have a loud telephone alert.

Available features and options:

Color: Gray

Connects with standard RJ-11C Phone jack

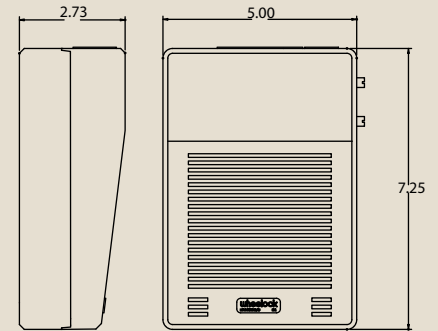
Adjustable tone and volume

Indoor use, surface mountable

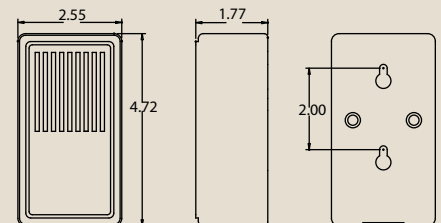
Analog, AC and DC models

UL 1459 Listed, FCC part 68 approved and DOC certified

Series CH-BT



Series CH-AT



CA Common Audible Control Units monitor multiple analog telephone lines (tip and ring) to provide all call signaling, zoned signaling or night bell connection. These control units also enable connection for operation of external audible or visual alerts to be operated directly off the telephone ring voltage output.

Available features and options:
(Common Audible)

- UL Listed
- Enables key systems to have a dry contact closure to trigger other devices
- Easy connection to Wheelock dry contact interface
- Choice of two outputs for alert signal connections: standard ringing voltage or contact closure

See below for TB Bell available features and options

CA Common Audible Control Unit



CA-312-1
CA-622-1

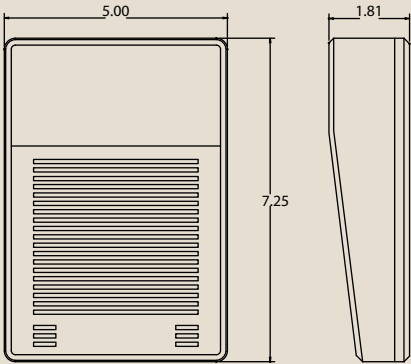
Black
Black

Order Code
3780
3779

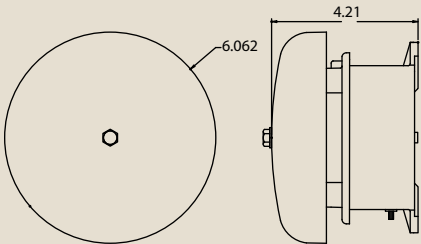
Application
Monitor up to 3 Tip and Ring Lines, 1 Zone
Monitor up to 6 Tip and Ring Lines, 2 zones

| Input Voltage | Output | REN |
|-----------------------|---|-----|
| 55-130 V, 20-30 Hz | Ringing Voltage or Dry Contact Closure | 1 |

Series CA



Series TB



Series TB - Telbells



Available Features and options:

- Aluminum bell housing
- Shell Size: 6"
- Integral RFI suppression
- Screw terminal connections and RJ-11 plug
- Approvals Include: TB-593 is UL Listed
- Motor Driven
- Tamper resistant volume control
- Applications: Telephone Ringers
- Weatherproof backbox for indoor/outdoor mounting included

| | | |
|--------|------|------|
| TB-591 | Gray | 4102 |
| TB-592 | Gray | 4101 |
| TB-593 | Gray | 4103 |

| Input Voltage | Input Current | dBA @10 ft. |
|--------------------|---------------|-------------|
| 38-60 VDC | 0.025 | 100 |
| 18-30 VAC/DC | 0.025/0.030 | 100 |
| 55-130 V, 20-30 Hz | N/A | 95 |

TB-592 for phone systems with a programmed contact closure, DCI-24-24 power supply required.
TB-593: REN: 1.6. For installation in Canada, a 7 ft. modular line cord w/CA-11 connector is required.

Telephone Relays



Weatherproof AC/DC
CRT-T-40

Order Code
0049

Explosion Proof AC/DC
XRT-T-40

0221

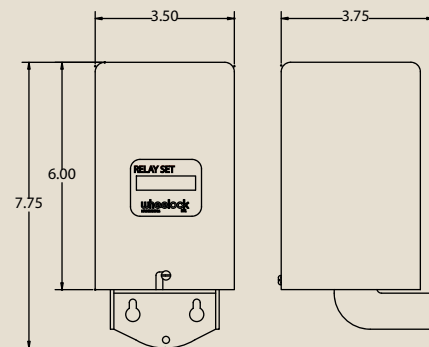
| | Input Voltage | AC Contact Ratings | | DC Contact Ratings | REN |
|----------|--------------------|--------------------|-----------|--------------------|-----|
| | | 115 volts | 230 volts | 115 volts | |
| CRT-T-40 | 39-150 V, 20-30 Hz | 5 | 230 | 500mA | 0.6 |
| XRT-T-40 | 39-150 V, 20-30 Hz | Amps | Amps | | |

Wheelock telephone relays activate various appliances when a telephone ring voltage is detected. Two models are available to accommodate different voltage requirements, environments and applications.

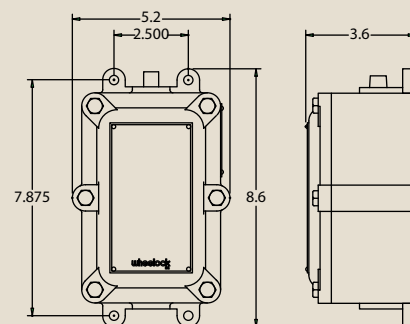
Available features and options:

- Indoor, outdoor
- Explosion proof - (XRT-T-40)
- UL Listed, FCC registered
- Accepts RJ-11 phone plug
- AC/DC Relay

Series CRT



Series XRT



Available features and options:

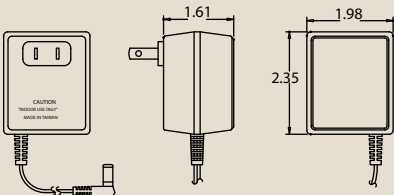
- EPS-1205
 - 12 VDC, 500 mA, filtered, plugs into an AC outlet
 - Includes DC output cord with polarized plug
- EPS-2401
 - 24 VDC, 100 mA, filtered, plugs into an AC outlet
 - Powers 24 VDC alert signals and tone generators

- RPS-2406
 - 24 VDC, 600 mA, wall mounted with 6 ft. AC power cord
 - Current limited, short circuit and overload protected with auto shutdown and reset

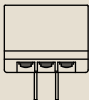
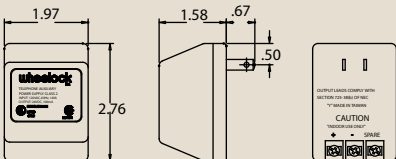
- RPS-2440-A
 - Either two 2 amp or one 4 amp
 - Fully regulated and filtered
 - Each output with independent power on LED
 - Current limited overload and short circuit protection
 - Auto shutdown and reset, AC circuit breaker for input protection

- DCI-24-24
 - Delivers 24 VDC at 300 mA via a dry contact closure
 - Quick connect input/output terminals require no special tools for hookup
 - One DCI-24-24 can activate another DCI-24-24 to power additional products
 - Compatible products: PS-33A, CH-AT2-W, CH-BT2, TB-592, UTA Series and MT-12/24

Series EPS-1205



Series EPS-2401



Filtered Power Supplies



| | Order Code | Output Current | Ripple and Noise |
|--------------------|------------|----------------|------------------|
| 12 VDC EPS-1205 | 4892 | 500mA | 2.5 VP-P |
| 24 VDC EPS-2401 | 3545 | 100mA | 10mVRMS |

Regulated and Filtered Power Supplies



| | Order Code | Output Current | Ripple and Noise | Regulation |
|-------------------------------------|------------|----------------|------------------|------------|
| 24 VDC RPS-2406 | 3770 | 600mA | 10mVRMS | +/- 5% |
| 24 VDC Dual Output RPS-2440-A | 4839 | 4 Amps | 10mVRMS | +/- 5% |

Dry Contact Interface



DCI-24-24

Input
Dry Contact Closure

Output
24 VDC (300 mA)

Zone Controller and Modules



Controller

MZC-144

| Order Code | Description |
|------------|--|
| 7550 | Programmable Modular Zone Control System |

Modules

MZEM-3

7552 3 Zone Expansion Modules (Audio)

TBM

7551 Talk back module

MZC-RM

7555 Relay Module

Expansion options

MZC-CAB

7553 Expansion cable

MZC-BOOSTER

7556 For use when more than 72 zones are required

RPS-2406 recommended

Available features and options:

3 zones expandable to 12 zones per unit

144 total zones per complete system

Provides one way communication or talk back

DTMF tone access with 3 digit dialing

All call and/or programmed zone paging

Separate music sources can be inserted

Field programmable for fixed or logical zones

Music muting by zone

Tone and paging volume control

Page alert tone

Night ringer with contact closure activation

Wall mountable

Operates on 24 VDC, regulated and filtered power supply

Provides clear, audible output for voice paging, background music and tone alerting.

Available features and options:

- 4", 8"
- Flush mount, surface mount
- Weatherproof horns
- Grilles: Metal, plastic
- Color: White, beige

Paging Speakers



| | | |
|--------------------------------|-------|------------|
| 4", surface mount | | Order Code |
| ST-B4 | White | 4116 |
| 8", flush mount | | |
| ST-C8 | White | 4114 |
| ST-C8M (metal) | White | 8474 |
| 8", flush mount | | |
| Recessed volume control | | |
| ST-C8V | White | 4871 |
| ST-C8MV (metal) | White | 8475 |

| | dBA @ 1 meter | Frequency Response |
|----|---------------|--------------------|
| 4" | 93 | 200 Hz, 10 KHz |
| 8" | 95 | 80 Hz, 14 KHz |

Transformer taps in watts: 1/8, 1/4, 1/2, 1, 2, 4
Sound output measured at 1W @ 2KHz for ST-B4, ST-C8, ST-C8V, ST-C8MV.

Paging Horns



| | | |
|----------------------|-------|------------|
| 8" D, 15 Watt | | Order Code |
| ST-H15-B | Beige | 5147 |
| 10", 30 Watt | | |
| ST-H30 | Beige | 5148 |

| | dBA @ 1 meter | Frequency Response |
|---------|---------------|--------------------|
| 15 Watt | 122 | 275 Hz, 10 KHz |
| 30 Watt | 125 | 275 Hz, 10 KHz |

Full rated power for ST-H15-B and ST-H30.

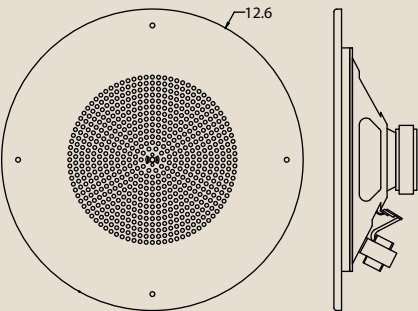
ST-H30 Wattage Selector Switch Positions

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------|-----|-----|------|------|------|-----|------|
| 70V | 2.0 | 3.8 | 7.5 | 15.0 | 30.0 | - | - |
| 25V | 0.3 | 0.5 | 0.9 | 1.9 | 3.7 | 6.9 | 13.9 |
| 100V | 4.0 | 7.7 | 15.0 | 30.0 | - | - | - |

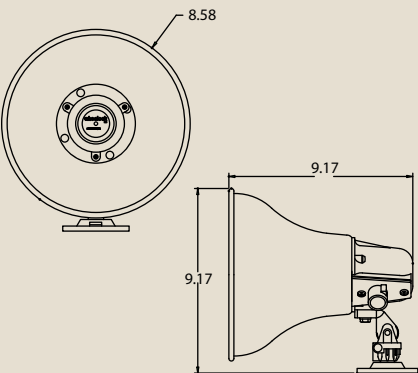
ST-H15-B Wattage Selector Switch Positions

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------|-----|-----|------|------|------|-----|------|
| 70V | 1.0 | 2.0 | 3.8 | 7.5 | 15.0 | - | - |
| 25V | - | - | 0.48 | 0.94 | 1.9 | 7.5 | 15.0 |
| 100V | 2.0 | 3.8 | 7.5 | 15.0 | - | - | - |

Series ST



Series ST-H15-B



Self Amplified Paging Horns



8", 5 Watt
SA-H5B

Order Code
Beige 5145

8", 15 Watt
SA-H15B

Beige 5146

| | dBa @ 1 meter | Frequency Response | Power Output @ 1000 Hz/Nominal Current |
|---------|------------------|-----------------------|---|
| 5 Watt | 118 | 275 Hz, 10 KHz | 5 watts/325 mA |
| 15 Watt | 122 | 275 Hz, 10 KHz | 15 watts/1.4 Amps 7.5 watts/900mA |

SA Series speakers have barrier, clamp type screw terminals, impedance: 600 Ohms/operating voltage: 18-28 VDC Sound output (dBa @ 1 meter) measured at rated power output at 100 Hz.

Volume Control



Single Gang
10 watts
VC-10

Order Code
5159

Double Gang
35 watts
VC-35

5160

| Frequency Response | Insertion Loss |
|--------------------|----------------|
| Better than 17 kHz | Less than .5dB |

Available features and options:

Paging Horn

Universal, fully adjustable mounting base with banding slots for beams and pillars. Conduit interface adapter with clear plastic shield

Weatherproof

Volume Control

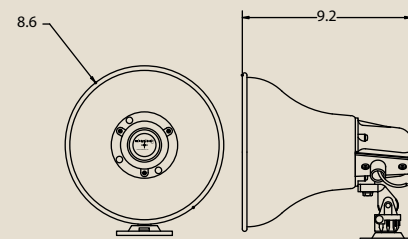
25 V or 70V

Auto-transformer design

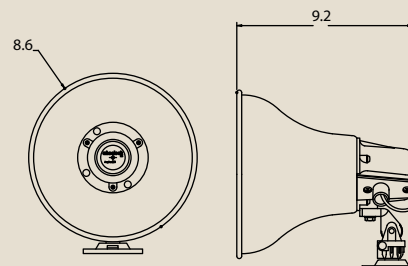
Stainless steel wall plate

Rotary switch that attenuates in 3dB stops to a completely off position

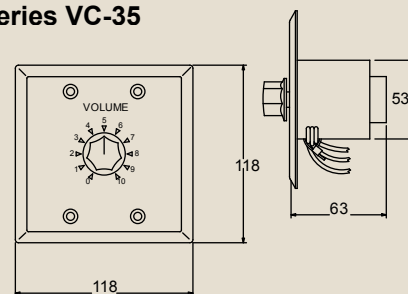
Series SA-H5B



Series SA-H15B



Series VC-35



Available features and options:

Boosts the audio signal from 600 ohm CO and audio page ports to a level capable of driving a maximum of 150 self-amplified speakers

Compensates for audio signal loss on long cable run

One way paging CO port interface

Contains volume control

24 VDC/25mA

In/Out impedance: 600 ohms/4 ohms

Input level: -15dBm to +10dB

Max audio output level: 0.8 VRMS

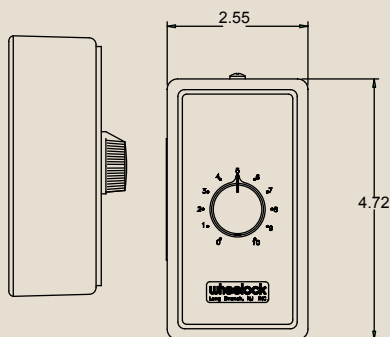
PRM-150 Line Level Pre-Amplifier



Surface mount
PRM-150

Order Code
3793

Series PRM-150



Strobe, 29 Candela, Explosion Proof SM87



Description:

These certified strobes have been designed for use in harsh environmental conditions. The marine grade alloy enclosures are suitable for use offshore or onshore, where light weight combined with corrosion resistance and strength is required. Units can be painted to customer specification and fitted with identification labels.

A high temperature unit is available.

Features*:

- ★ UL Listed for USA and Canada:
 - Class I, Div. 1, Groups C & D
 - Class I, Zone 1 AExd IIB
 - ★ CSA Certified
 - ★ CUL Listed
 - ★ ATEX Approved
 - ★ NEMA 4x & 6, IP66 and IP67
 - ★ Certified temperature -67°F to $+158^{\circ}\text{F}$ (-55°C to $+70^{\circ}\text{C}$)
 - ★ High temperature unit (up to $185^{\circ}\text{F}/85^{\circ}\text{C}$) available
 - ★ Various lens colors
 - ★ Optional lens guard
 - ★ 4 wire monitored connection
 - ★ 24 & 48 VDC
 - ★ 110, 120, 240 & 254 VAC
- *Depending on version

Architects and Engineers Specifications

Explosion-proof strobes shall be UL and cUL Listed for Class I, Division 1, Groups C&D, and Class I, Zone 1 hazardous locations. The strobes shall be constructed of marine grade alloy with an epoxy paint finish and shall meet NEMA 4x, NEMA 6, IP 66 and IP 67 environmental requirements over a temperature range of -67°F to 158°F (-55°C to 70°C) in hazardous and harsh environments.

The strobe shall be rated to flash at 1 Hz with 29 candela per flash. Rated current draw shall not exceed 320 mA at 24 vdc. The strobe shall be capable of direct surface mounting in any direction.

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

Strobe, 355 Candela, Explosion Proof XB4



Description:

These high output (355 candela) strobes have been designed for use in potentially explosive atmospheres and harsh environmental conditions. The marine grade alloy or stainless steel enclosures are suitable for use offshore or onshore, where light weight combined with corrosion resistance and strength is required. Units can be painted to customer specification and fitted with identification labels.

Features*:

- ★ UL Listed for USA and Canada
 - Hazardous locations:
 - Class I, Div 1, Groups C & D
 - Class I, Zone 1, AExd IIB T4
 - Ordinary locations: Visual-Signal Device
- ★ ATEX approved
- ★ Certified temperature –67°F to +158°F (–55°C to +70°C)
- ★ NEMA 4x & 6, IP67 and IP66
- ★ Various lens colors
- ★ Twin replaceable tubes
- ★ Tapered spigot flamepath.
- ★ 4 wire monitored connection
- ★ Optional lens guard
- ★ 24 VDC
- ★ 110 & 240 VAC
- ★ Xenon

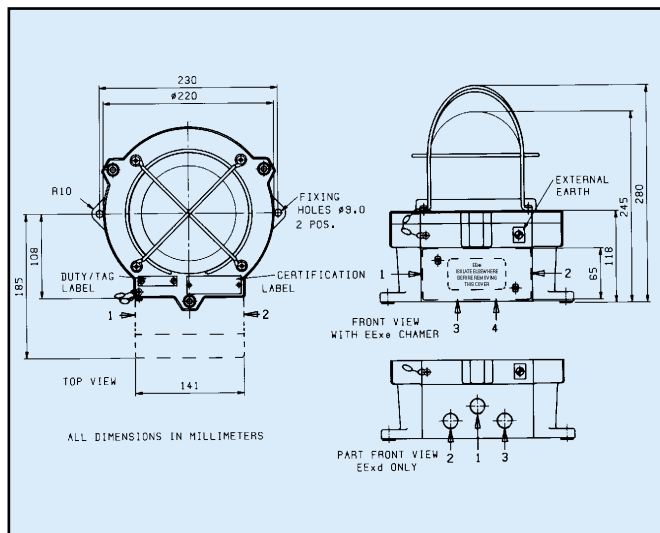
*Depending on version.

Architects and Engineers Specifications

Explosion-proof strobes shall be UL and cUL Listed for Class I, Division 1, Groups C&D, and Class I, Zone 1, AExd IIB T4 hazardous locations and shall be listed under UL Standard 1638 for Indoor/Outdoor use. The strobes shall be constructed of marine grade alloy with an epoxy paint finish and shall meet NEMA 4x, NEMA6, IP 66 and IP 67 environmental requirements over a temperature range of -67°F to 158°F (-55°C to 70°C) in hazardous and harsh environments.

The strobe shall be rated to flash at 1 Hz with 355 candela per flash. Rated current draw shall not exceed 1400 mA at 24 vdc. The strobe shall be capable of direct surface mounting in any direction.

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



Specification

| Voltage | AC 50/60 Hz | | | |
|-------------------------------|-------------|--------|--------|--------|
| | 24 | 110 | 240 | 254 |
| Tube Energy (Joules) | 21 | 21 | 21 | 21 |
| Peak Current Consumption (mA) | 1400 | 350 | 185 | 210 |
| Effective Intensity (Cd) | 355 | 355 | 355 | 355 |
| Peak Intensity (Cd) | 123691 | 123691 | 123691 | 123691 |

NOTE: The above figures (Cd) are for a clear lens @ 1Hz flash rate.

The photometric data has been verified by BSI. A report is available if required.

FOR COLORED LENSES

| Color | Red | Blue | Amber | Green | Yellow |
|----------------------------------|------|------|-------|-------|--------|
| Multiplying Factor (Approximate) | 0.15 | 0.12 | 0.51 | 0.49 | 0.86 |

| | |
|------------|--|
| Terminals: | 8 off suitable for up to 8 AWG conductor size |
| Entries: | Up to 3 x 1/2" or 3/4" NPT |
| Materials: | LM25TF Marine Grade Alloy body. Grade 316 ANC4B Stainless Steel body. Toughened Wellglass. |
| Weights: | LM25: 14.5lb./6.6kg. Stainless Steel: Add 18.5lb./8.5kg. |
| Finish: | Red epoxy paint finish as standard or to customer's specification. |

Certification: **UL Listed for USA and Canada**

– Hazardous locations:

Class I, Div 1 Groups C-D

Class I, Zone 1.

Listing No. E187894.

– Ordinary locations: Visual-Signal Device.

Listing No. S8128.

Refer to UL data sheet at rear of catalogue for complete information.

ATEX approved: EExd IIC T5

Cert. No. Baseffa 02ATEX0224X

Certified Temperature:

–67°F to +158°F (–55°C to +70°C)

Ingress Protection: NEMA 4x & 6, IP66 & 67

Configuration Options:

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

| Type | Certification | Voltage | Terminals | Cable Entries | Flash Rate | Other Options | Lens Guard | Lens Color | Tag/Duty Label | Material | Finish | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------|--|-----------|------------------|------------|-------------------------|------------|--|----------------|---|--------|---------|------|----------|----|----------|----|---|--|------------|------|------|---|------|---|--|--|---|------|-------|------|------|---|-------------------|---|--|---|----------|------|-----------------|---|-------|---|---|--|--------|------|-----|---|------|---|--------|---|------|---|-------|---|-----------------|---|
| XB4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Voltage</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>24VDC</td> <td>B</td> </tr> <tr> <td>110VAC</td> <td>E</td> </tr> <tr> <td>240VAC</td> <td>H</td> </tr> </tbody> </table> | | Voltage | Code | 24VDC | B | 110VAC | E | 240VAC | H | <table border="1"> <thead> <tr> <th>Entries</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>1/2" NPT</td> <td>*D</td> </tr> <tr> <td>3/4" NPT</td> <td>*E</td> </tr> </tbody> </table> <p>*prefix entry size (see diagram above) with entry position code e.g. 1D2D.</p> | | Entries | Code | 1/2" NPT | *D | 3/4" NPT | *E | <table border="1"> <thead> <tr> <th>Options</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>A</td> </tr> <tr> <td>Yes*</td> <td>Y</td> </tr> <tr> <td colspan="2">*Please specify</td> </tr> </tbody> </table> | | Options | Code | None | A | Yes* | Y | *Please specify | | <table border="1"> <thead> <tr> <th>Color</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>R</td> </tr> <tr> <td>Blue</td> <td>B</td> </tr> <tr> <td>Green</td> <td>G</td> </tr> <tr> <td>Yellow</td> <td>Y</td> </tr> <tr> <td>Amber</td> <td>A</td> </tr> <tr> <td>Clear</td> <td>C</td> </tr> </tbody> </table> | | Color | Code | Red | R | Blue | B | Green | G | Yellow | Y | Amber | A | Clear | C | <table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>R</td> </tr> <tr> <td>Blue</td> <td>B</td> </tr> <tr> <td>Yellow</td> <td>Y</td> </tr> <tr> <td>Grey</td> <td>G</td> </tr> <tr> <td>White</td> <td>W</td> </tr> <tr> <td>Other – specify</td> <td>S</td> </tr> </tbody> </table> | | Finish | Code | Red | R | Blue | B | Yellow | Y | Grey | G | White | W | Other – specify | S |
| Voltage | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24VDC | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 110VAC | E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240VAC | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Entries | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/2" NPT | *D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3/4" NPT | *E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Options | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| None | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yes* | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Please specify | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Color | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red | R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blue | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Green | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yellow | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amber | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finish | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red | R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blue | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yellow | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grey | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other – specify | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Certification</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>UL</td> <td>UL</td> </tr> <tr> <td>UL (ordinary locations)</td> <td>UW</td> </tr> </tbody> </table> | | Certification | Code | UL | UL | UL (ordinary locations) | UW | <table border="1"> <thead> <tr> <th>Flash Rate</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>60/min.</td> <td>06</td> </tr> <tr> <td>120/min.</td> <td>12</td> </tr> <tr> <td>240/min.</td> <td>24</td> </tr> </tbody> </table> | | Flash Rate | Code | 60/min. | 06 | 120/min. | 12 | 240/min. | 24 | <table border="1"> <thead> <tr> <th>Lens Guard</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>N</td> </tr> <tr> <td>Yes</td> <td>Y</td> </tr> </tbody> </table> | | Lens Guard | Code | None | N | Yes | Y | <table border="1"> <thead> <tr> <th>Duty Label</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>N</td> </tr> <tr> <td>Yes*</td> <td>Y</td> </tr> <tr> <td colspan="2">*(Please specify)</td> </tr> </tbody> </table> | | Duty Label | Code | None | N | Yes* | Y | *(Please specify) | | <table border="1"> <thead> <tr> <th>Material</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Stainless steel</td> <td>0</td> </tr> <tr> <td>Alloy</td> <td>1</td> </tr> </tbody> </table> | | Material | Code | Stainless steel | 0 | Alloy | 1 | | | | | | | | | | | | | | | | |
| Certification | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UL | UL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UL (ordinary locations) | UW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flash Rate | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60/min. | 06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120/min. | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240/min. | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lens Guard | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| None | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yes | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duty Label | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| None | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yes* | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *(Please specify) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Material | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stainless steel | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alloy | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>Terminals & Type</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>8 x 8 AWG</td> <td>8D</td> </tr> </tbody> </table> | | Terminals & Type | Code | 8 x 8 AWG | 8D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminals & Type | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 x 8 AWG | 8D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Standard Models

| Series | Model Number | Order Code | Description |
|--------|----------------------|------------|---|
| XB4 | XB4ULB8D2E3E06ANRN1R | 109205-001 | Strobe, Red Lens, 355 candela, 24 VDC, Red finish |
| XB4 | XB4ULB8D2E3E06ANCN1R | 109205-001 | Strobe, Clear Lens, 355 candela, 24 VDC, Red finish |

COOPER Wheelock

273 Branchport Avenue
Long Branch, NJ 07740
Phone: (800) 631-2148
Fax: (732) 222-2588
www.cooperwheelock.com



WE ENCOURAGE AND SUPPORT NICET CERTIFICATION
3 YEAR WARRANTY
Made in USA

Horn - 103dB, Explosion Proof, High Output DB1



Description:

This range of light weight, flameproof horns has been designed with a high weatherproof rating to cope with the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

New electronic circuitry allows the DB1P and DB1HP to be switched between two selectable tones by either reversing the supply polarity, or connecting a second voltage supply.

The higher output are particularly suitable for noisy environments.

Features*:

- ★ UL Listed – Class I, Div 1. Groups C & D
- ★ Class I, Zone 1 and Zone 2 use
- ★ ATEX approved
- ★ NEMA 4x, IP66
- ★ Certified temperature -13°F to +158°F (-25°C to +70°C)
- ★ NFPA 72 compliant
- ★ 4 wire diode monitored connection for operation in supervisory mode
- ★ Up to 103 dBA output @ 10 feet
- ★ Marine grade alloy
- ★ Up to 27 output tones, user selectable
- ★ 12V, 24V & 48 VDC, 110 VAC
- ★ Tones can be selected remotely
- ★ Any two tones may be switched via the external voltage supply

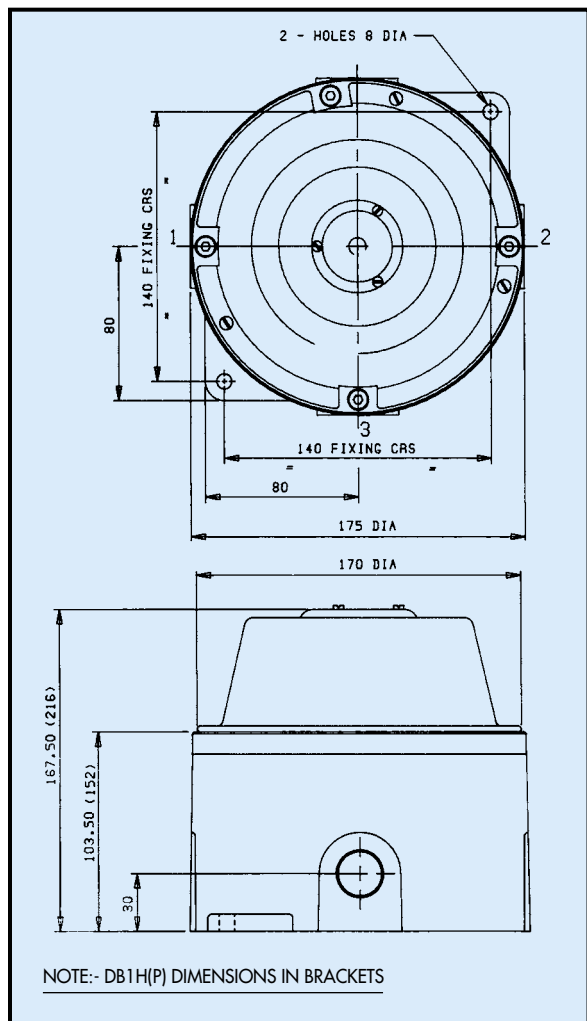
*Depends on version

Architects and Engineers Specifications

Explosion-proof horns shall be UL Listed for Class I, Division 1, Groups C&D, and Class I, Zone 1 hazardous locations. The horns shall be constructed of marine grade alloy with an epoxy paint finish and shall meet NEMA 4x and IP 66 environmental requirements over a temperature range of -13°F to 158°F (-25°C to 70°C) in hazardous and harsh environments.

The horns shall have 27 user selectable output tones. Multiple horns shall be able to operate in synchronization. Rated current draw at 24 vdc shall not exceed 250 mA for rated sound output of 93 dBA at 10 feet or 700 mA for rated sound output of 100 dBA at 10 feet. The horns shall be capable of direct surface mounting.

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



Specification

| | |
|------------------------|--|
| Certification: | UL Listing: Class I, Div I, Groups C & D. Listing No. E187688. ATEX approved: EExd, IIB T3 Cert No. Baseeta 02ETEX0207 for DB(1P) Cert No. Baseeta 02ETEX0209 for DBH(P) |
| Material: | LM25 corrosion resistant alloy or ANC4B stainless steel with stainless steel cover screws. ABS flare. |
| Finish: | Epoxy paint finish as standard or to customer's specification. |
| 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. |
| Weight: | DB1P 7.7lb./3.5 Kg approx. DB1HP 12.3lb./5.6 Kg approx. |
| Certified Temperature: | -13°F to +158°F (-25°C to +70°C) |
| Ingress Protection: | NEMA 4x, IP66. |
| Tone Selection: | 27 User Selectable 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 | | |

Current Consumption:

| | DB1(P) | DB1H(P) |
|------|--------|---------|
| 12V | 125mA | 900mA |
| 24V | 250mA | 700mA |
| 48V | 250mA | - |
| 110V | 60mA | 200mA |

| | |
|------------|---|
| 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 |

Single Stage - 4 wire diode monitored connection - on board diode allows unit to be operated in supervisory mode when monitoring line in reverse polarity

Two Stage - Switchable unit available in DC versions only either by:

- (i) Reversing the polarity of the supply, or,
- (ii) By a 3 wire common +ve system, switching between the -ve lines

Configuration Options:

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

| Unit Type | Voltage | Cable Entries | Duty Labels | Tag Label | Features | Finish | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---------------|-------------|-----------|----------|----------|-----|----------------------|-----|-----------|-----|-----------|-----|--|---------|------|----------|---|----------|---|-----|---|-----|---|--------|---|---|-------------|------|------|---|-----------|---|---|-----|-------|------|---|----------|---|---|----------|------|--------------|---|------|---|--|--------|------|-----|---|------|---|---------|---|
| <input type="text"/> DB1P ULA DB1HP ULA | <input type="text"/> <table border="1"> <thead> <tr> <th>Voltage</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>12V d.c.</td> <td>012</td> </tr> <tr> <td>24V d.c.</td> <td>024</td> </tr> <tr> <td>48V d.c. DB1(P) only</td> <td>048</td> </tr> <tr> <td>110V a.c.</td> <td>110</td> </tr> <tr> <td>240V a.c.</td> <td>240</td> </tr> </tbody> </table> | Voltage | Code | 12V d.c. | 012 | 24V d.c. | 024 | 48V d.c. DB1(P) only | 048 | 110V a.c. | 110 | 240V a.c. | 240 | <input type="text"/> <table border="1"> <thead> <tr> <th>Entries</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>1/2" NPT</td> <td>C</td> </tr> <tr> <td>3/4" NPT</td> <td>D</td> </tr> <tr> <td>LHS</td> <td>1</td> </tr> <tr> <td>RHS</td> <td>2</td> </tr> <tr> <td>Bottom</td> <td>3</td> </tr> </tbody> </table> <p>*Prefix position with entry size code e.g. C1C3 = 20mm left and bottom entries.</p> | Entries | Code | 1/2" NPT | C | 3/4" NPT | D | LHS | 1 | RHS | 2 | Bottom | 3 | <input type="text"/> <table border="1"> <thead> <tr> <th>Duty Labels</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>N</td> </tr> <tr> <td>Required*</td> <td>D</td> </tr> </tbody> </table> <p>*(Please specify)</p> | Duty Labels | Code | None | N | Required* | D | <input type="text"/> <table border="1"> <thead> <tr> <th>Tag</th> <th>Label</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>N</td> </tr> <tr> <td>Required</td> <td>T</td> </tr> </tbody> </table> <p>*Please specify</p> | Tag | Label | None | N | Required | T | <input type="text"/> <table border="1"> <thead> <tr> <th>Features</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Not required</td> <td>N</td> </tr> <tr> <td>Yes*</td> <td>Y</td> </tr> </tbody> </table> <p>*Please specify</p> | Features | Code | Not required | N | Yes* | Y | <input type="text"/> <table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>R</td> </tr> <tr> <td>Grey</td> <td>G</td> </tr> <tr> <td>Special</td> <td>S</td> </tr> </tbody> </table> | Finish | Code | Red | R | Grey | G | Special | S |
| Voltage | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12V d.c. | 012 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24V d.c. | 024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48V d.c. DB1(P) only | 048 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 110V a.c. | 110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240V a.c. | 240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Entries | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/2" NPT | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3/4" NPT | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LHS | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RHS | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bottom | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duty Labels | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| None | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Required* | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tag | Label | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| None | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Required | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Features | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Not required | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yes* | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finish | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red | R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grey | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Standard Models

| Series | Model Number | Order Code | Description |
|--------|---------------------|------------|---|
| DB1 | DB1PULA024D1D2NNNR | 109205-001 | Multitone, 93dB(A), 24 VDC, Red finish |
| DB1 | DB1HPULA024D1D2NNNR | 109205-002 | Multitone, 100dB(A), 24 VDC, Red finish |

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Horns - Up to 108dB(A), Explosionproof, Weatherproof DB3 Range

Sounder/Strobe
Combination Unit



Description:

This range of light weight all GRP, explosionproof horns is intended for use in potentially explosive atmospheres and has been designed with high ingress protection to cope with the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

The flamepaths, flare and the body, are manufactured completely from a UV stable glass reinforced polyester. Stainless steel screws and sinter are incorporated thus ensuring a corrosion free product. A tapered flamepath is used to overcome the problems of assembly of parallel spigot flamepaths.

An optional Exe terminal chamber is available.

Features*:

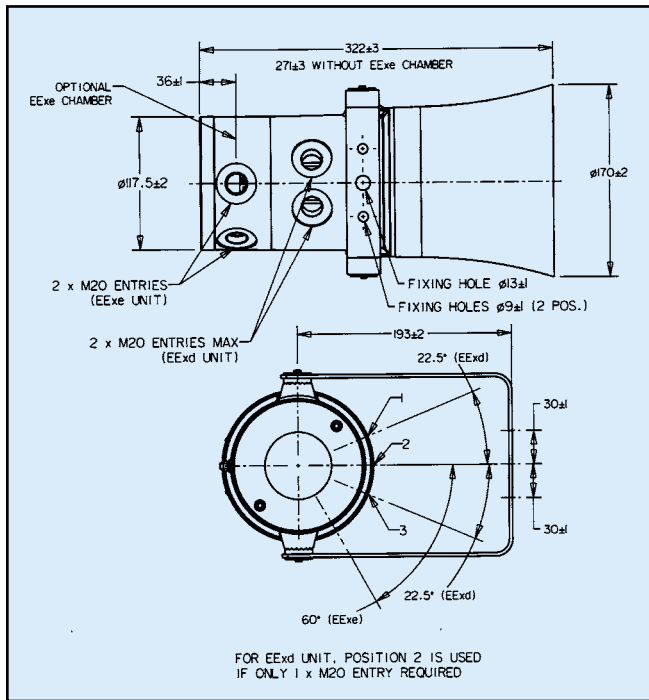
- ★ UL Listed for USA and Canada
 - Hazardous locations:
 - Class I, Div 2, Groups A, B, C & D
 - Class II, Div 2, Groups F & G
 - Class I, Zones 1 & 2, AExd IIC T4
 - Ordinary locations: Audible-Signal Device
 - ★ ATEX approved
 - ★ NEMA 4x & 6, IP66 and IP67
 - ★ Certified temperature -67°F to $+158^{\circ}\text{F}$ (-25°C to $+70^{\circ}\text{C}$)
 - ★ All GRP corrosion free flamepaths
 - ★ Up to 108dBA output at 10 feet
 - ★ Integral volume control
 - ★ 27 tones, user selectable
 - ★ Two tones may be switched via the external voltage supply – now available in AC and DC versions
 - ★ Horn/Strobe Combination Unit available
- *Depends on version

Architects and Engineers Specifications

Horns for hazardous locations and harsh environments shall be UL and cUL listed for Class I, Division 2, Groups A,B,C&D, and Class I, Zones 1&2, AExd IIC T4 applications and shall be listed under UL Standard 1638 for Indoor/Outdoor use. They shall be constructed of lightweight, UV stable glass reinforced polyester, shall be corrosion resistant, and shall meet NEMA 4x, NEMA 6, IP 66 & IP 67 environmental requirements over a temperature range of -67°F to $+158^{\circ}\text{F}$ (-55°C to $+70^{\circ}\text{C}$).

The horns shall have 27 user selectable output tones. Multiple horns shall be able to operate in synchronization. Rated current draw at 24 vdc shall not exceed 380 mA for rated sound output of 105 dBA at 10 feet. The horns shall include an integral volume control and a stainless steel mounting bracket with ratchet facility to direct sound output.

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



Specification

Certification: UL Listed for USA and Canada
 – Hazardous locations:
 Class I, Div 2, Groups A, B, C & D
 Class II, Div 2, Groups F & G.
 Class I Zones 1 & 2, AExd IIC T4.
 UL Listing No: E203310.
 – Ordinary locations: Audible-Signal Device.
 Listing No. S8116.
 ATEX Approved: CENELEC EN50014, 18, 19
 Cert. No. BAS00ATEX2097X, EE_{xd} IIC.
 Cert. No. BAS00ATEX2098X, EE_{xd} IIC.
 Zones 1 and 2.

Material: Body & horn in anti-static, UV stable, glass reinforced polyester.
 Swivel bracket & captive cover screws in stainless steel.

Finish: Body and horn, natural black or epoxy paint coated to client's color requirements

Sound Output: DB3 105 ± 3dB(A) at 10 feet (tone dependent)

| 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 970Hz continuous.

Weight: 13.2lb./6.0kg approx.

Certified

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

Ingress Protection: NEMA 4x & 6, IP66 and IP67

Voltage: Up to 48V d.c. Up to 254V a.c.

Current

Consumption:

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

| | |
|-----------------------------|--|
| Terminals: | 4 x 2.5mm ² (a.c.), 6 x 2.5mm ² (d.c.). |
| Mounting: | Stainless steel bracket with ratchet facility. |
| Labels: | Duty and tag labels optional. |
| Cable Entries: | Up to 2 x 1/2" NPT UL. |
| Tone Selection: | 27 user selectable tones. |
| Horn/Strobe Unit: | The DB3 may be combined with an MEDC strobe to create a combined audio/visual alarm. |
| Two Stage Unit DB3P: | Switchable between two tones: |
| D.C. | (i) Reversing the polarity of the supply, or (ii) by a 3 wire common +ve system, switching between the two -ve lines. |
| A.C. | (iii) Closing/opening connection between 2 terminals e.g. by using a volt free relay contact at the panel. 2 tones must be specified at time of order. |
| 3/4 Tone Unit: | Remote 3 or 4 tone available – contact sales office for details. |

Configuration Options:

The following code is designed to help in selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

| Unit Type | | Certification | | Voltage | | Labels | | Entries | | Other Options | | Finish | | Certified Plugs | |
|-----------|----------------|-------------------------|---|----------------|------|-------------------------|------|----------------------|------|-----------------|------|---|------|-----------------|--|
| Type | Details | Type | Code | Voltage | Code | Label | Code | Features | Code | Colour | Code | Certified Plugs | Code | | |
| DB3 | Standard unit | UL Listed | UL | 12V - 48V d.c. | 048 | Duty | D* | None | N | Natural Black | N | Plugs | *Z | | |
| DB3P | Two stage | UL (Ordinary Locations) | UW | 110V a.c. | 110 | Tag | T* | End of line resistor | E* | Red | R | *must always be indicated with a Z. If no plugs are required omit the "Z" from the order code | | | |
| | | | | 120V a.c. | 120 | None | N | *State value. | | Special | S* | | | | |
| | | | | 220V a.c. | 220 | *Please specify wording | | | | *Please specify | | | | | |
| | | | | 230V a.c. | 230 | | | | | | | | | | |
| | | | | 240V a.c. | 240 | | | | | | | | | | |
| | | | | 254V a.c. | 254 | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Series | Model Number | Order Code | Description | | | | | | | | | | | | |
| DB3 | DB3UL048N2CNRZ | 109208-001 | Multitone, 108 dBA, 24 VDC, Red finish, plugs | | | | | | | | | | | | |

Standard Models

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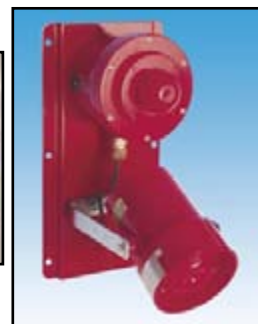
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Strobe/Sounder Combination Units, Heavy Duty Industrial and Marine, Weatherproof



Example of installed combination unit



XB11/DB3

Example shown is for illustration only.
Other combinations are available.

Description:

This range of audio/visual combination units may be assembled from a range of strobes and horns. Mounted on a sturdy, drilled, painted, stainless steel plate, the units are pre-wired as standard such that a single input operates both the sounder and strobe simultaneously.

Units are available for use in potentially explosive atmospheres and dedicated units are now available for use in industrial and marine environments.

Features*:

- ★ Zones 1, 2 and safe area use
- ★ ATEX approved Ex II 2GD
- ★ UL listed Class I, Div. 1 & 2, Groups C & D
- ★ NEMA 4x and 6, IP66 and 67
- ★ Certified temperature -67°F to $+158^{\circ}\text{F}$ (-55°C to $+70^{\circ}\text{C}$)
- ★ Corrosion free GRP strobe/sounder
- ★ Strobe available as xenon, filament, fluorescent or LED
- ★ Xenon: up to 21J
- ★ Filament: up to 100W
- ★ Fluorescent: up to 39W
- ★ LED: up to 192cd
- ★ Sounder: up to 115dBA output at 1 metre
- ★ All stainless steel (316), epoxy painted back plate

*Model dependent.

Architects and Engineers Specifications

Horn/Strobe Combination units

Horns and strobes for hazardous locations and harsh environments shall be factory assembled in combination on a stainless steel mounting plate and shall be factory wired for simultaneous operation of the horn and strobe from a single input.

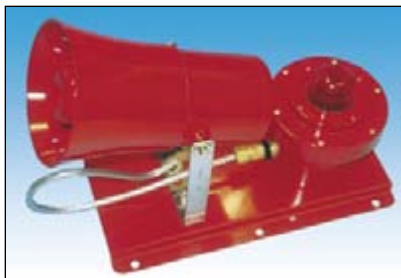
Speaker/Strobe Combination units

Speakers and strobes for hazardous locations and harsh environments shall be factory assembled in combination on a stainless steel mounting plate with separate inputs provided for the speaker and the strobe.

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

Configuration Options:

1. XB11/DB3 or XB11/DB4 – Explosionproof Xenon 5J; Sounder up to 115dB(A), all GRP corrosion free products.



- ★ Certification: ATEX: Ex II 2GD, EExdIIBT5.
UL: Class I, Div. 2, Groups C & D.
- ★ Voltage: 24V d.c., 110V a.c., 240V a.c.
- ★ Strobe: Standard: XB11 (Xenon 5J).
Option: Filament (10W). Fluorescent (≤ 10W).
- ★ Sounder: Standard: DB3 (long flare) ≤ 115dBA at 1 metre.
Option: DB3 (short flare) ≤ 108dBA at 1 metre.
- ★ Dimensions (mm): 420 (height) x 220 (width) x 337 (depth).
- ★ Options: Refer to data sheet. Specify when ordering.

Ordering information – Specify options 1 to 4

| Product | 1. Certification | 2. Voltage | 3. Lens color | 4. Finish |
|-------------------------|------------------|------------|---------------|-------------------|
| XB11+DB3 or XB11+DB4 | ATEX UL | see above | Red Amber | Natural Black Red |

2. SM87HXB/DB1 – Explosionproof Xenon 5J; Sounder up to 110dB(A), LM25 or stainless steel construction, red finish.



- ★ Certification: ATEX: Ex II 2G, EExdIIBT4(T3).
UL: Class I, Div. 1, Groups C & D.
- ★ Voltage: 24V d.c., 110V a.c., 240V a.c.
- ★ Strobe: Standard: SM87 (Xenon 5J).
Option: Filament (10W). Fluorescent (≤ 10W). LED (≤ 192cd)
- ★ Sounder: Standard: DB1 HP ≤ 110dB(A) at 1 metre.
Option: DB1 P ≤ 106dB(A) at 1 metre.
- ★ Dimensions (mm): 351 (height) x 228 (width) x 205 (depth).
- ★ Options: Refer to data sheet. Specify when ordering.

Note: Example only – actual arrangement may vary (contact sales office)

Ordering information – Specify options 1 to 5

| Product | 1. Body Material | 2. Certification | 3. Voltage | 4. Lens color | 5. Finish |
|---------------|----------------------|------------------|------------|---------------|-----------|
| SM87HXB+DB1HP | LM25 stainless steel | ATEX UL | see above | Red Amber | specify |

Ordering information – Specify options 1 to 5

| Product | 1. Body Material | 2. Certification | 3. Voltage | 4. Lens color | 5. Finish |
|-------------|----------------------|------------------|------------|---------------|-----------|
| SM87HXB+DB3 | LM25 stainless steel | ATEX UL | see above | Red Amber | specify |

3. XB13/DB12 or XB13/DB15 – Heavy Duty Industrial & Marine Xenon 10J; Sounder DB12 (DB15) up to 110dB(A) (117 dB(A))



- ★ Applications: Harsh Industrial & Marine Environments.
- ★ Voltage: 12V, 24V d.c., 110V, 240V a.c.
- ★ Strobe: Standard: XB13 (Xenon 10J).
- ★ Sounder: Standard: DB12 ≤ 110dB(A) at 1 metre.
Standard: DB15 ≤ 115dB(A) at 1 metre.
- ★ Dimensions (mm): 300 (height) x 195 (width) x 220 (depth).

Other combinations of strobes and sounders are available – please contact sales office for detailed specifications.

Ordering information – Specify options 1 to 3

| Product | 1. Voltage | 2. Lens color | 3. Finish |
|-----------|------------|---------------|-------------|
| XB13/DB12 | see above | Red Amber | Natural Red |

Standard Models

| Model Number | Description | Order Code |
|-------------------------------|---------------------------------------|------------|
| XB11/DB3 UL 24 clear red | Strobe/Horn Clear Lens, Red finish | 109209-002 |
| XB11/DB3 UL 24 red red | Strobe/Horn Red Lens, Red finish | 109209-003 |
| XB11/DB425 UL X(70) clear red | Strobe/Speaker Clear Lens, Red finish | 109209-001 |
| XB11/DB425 UL X(70) red red | Strobe/Speaker Red Lens, Red finish | 109209-004 |

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Series XRT Explosion Proof Relay



XRT-T-40

Description:

Cooper Wheelock's Explosion Proof Relays are precision built of extremely rugged materials for long, trouble-free life in hazardous and difficult environments. Designed primarily for telephone systems, they sense low voltage AC or DC and switch 115 and 220 volts AC at 60 Hz or 115 volts DC with contact arrangement; single-pole, normally open, double A (double make in parallel). The XRT-T-40 has a 0.45 microfarad blocking capacitor in series with the coil and a one megohm resistor across the capacitor. The XRT-T-40 is FCC registered.

The XRT Explosion Proof Relay is designed to switch high (115 or 220) voltage using low voltage, such as ringing current in telephone systems, as the controlling voltage. These units can switch devices controlled by low current controlling systems. The units are easy to handle and install, and provide convenient access to coil and contact terminals.

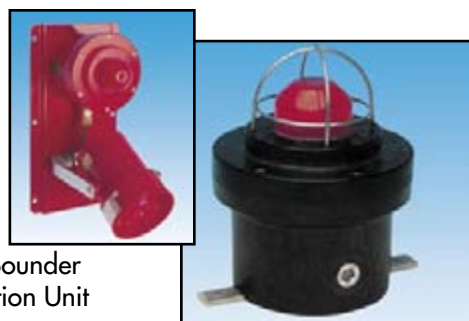
The units are UL listed and CSA approved for the following hazardous atmospheres:

- CLASS I, GROUP C
Atmospheres containing ethyl and ether vapors
- CLASS I, GROUP D
Atmospheres containing gasoline, petroleum, naphtha, alcohols, acetone, benzene, lacquer solvent vapors, and natural gas
- CLASS II, GROUP F
Atmospheres containing carbon black, coal, or coke dust
- CLASS II, GROUP G
Atmospheres containing flour, starch, and grain dusts

Specification and Ordering Information:

| Model Number | Order Code | Operating Voltage |
|--------------|------------|-------------------|
| XRT-T-40 | 0221 | 90V-20 Hz |

Strobe - 29 Candela, Hazardous Location XB11



Strobe/Sounder
Combination Unit

Description:

These certified strobes have been designed for use in potentially explosive gas and dust atmospheres and harsh environmental conditions. The glass reinforced polyester enclosures are suitable for use offshore or onshore, where light weight combined with corrosion resistance is required.

The strobe housing is manufactured completely from a U.V. stable, glass reinforced polyester. Stainless steel screws and mounting bracket are incorporated ensuring a totally corrosion free product.

Units can be painted to customer specification and supplied with identification labels.

Features*:

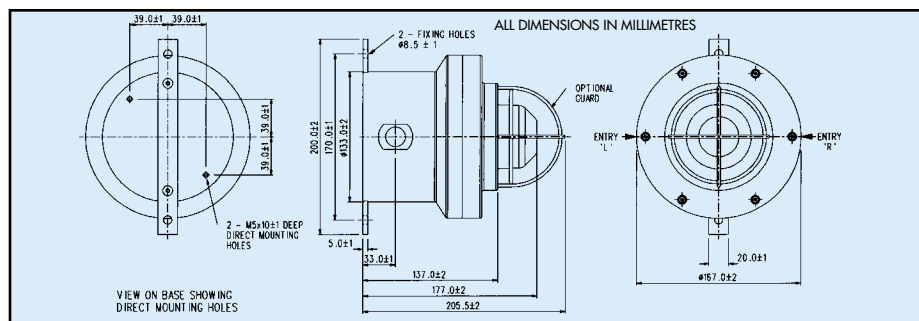
- ★ UL Listed for USA and Canada
 - Hazardous locations:
 - Class I, Div 2, Groups C & D
 - Class I, Zones 1 & 2, AExd IIB T4/T5
 - Ordinary locations: Visual-Signal Device
 - ★ ATEX approved
 - ★ NEMA 4x & 6, IP66 and IP67
 - ★ Certified temperature -67°F to $+158^{\circ}\text{F}$ (-55°C to $+70^{\circ}\text{C}$)
 - ★ Corrosion resistant GRP
 - ★ Optional stainless steel backstrap
 - ★ Various lens colors
 - ★ Optional lens guard
 - ★ 29 candela
 - ★ 4 wire monitored connection
 - ★ Available as a status light
 - ★ Xenon
 - ★ 24 VDC, 110 and 240 VAC
- *Depending on version

Architects and Engineers Specifications

Strobes for hazardous locations and harsh environments shall be UL and cUL listed for Class I, Division 2, Groups C&D, and Class I, Zones 1&2, AExd IIB T5 applications and shall be listed under UL Standard 1638 for Indoor/Outdoor use. The strobe appliances shall be constructed of lightweight, UV stable glass reinforced polyester, shall be corrosion resistant, and shall meet NEMA 4x, NEMA 6, IP 66 & IP 67 environmental requirements over a temperature range of -67°F to 158°F (-55°C to 70°C).

The strobe shall be rated to flash at 1 Hz with 29 candela per flash. Rated current draw shall not exceed 320 mA at 24 vdc. The strobe shall be capable of direct surface mounting in any direction.

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



Specification

Certification: UL Listed for USA and Canada to:
 – Hazardous locations:
 Class I, Div 2 Groups C & D.
 Class I, Zones 1 & 2 AExd IIB T4/T5.
 UL Listing No: E187894.
 – Ordinary locations: Visual-Signal Device.
 UL listing No. S8128.
 ATEX approved: EExd IIB T5/T6
 Cert. No. 99 ATEX 2195X
 CENELEC EN50014 and EN50018

Material: Body: – Glass reinforced polyester (GRP).
 Lens: – Glass.
 Cover Screws + Backstrap: – Stainless steel 316.

Finish: Natural black or painted to customer specification.

Weight: 5-1/2lb./2.5Kg.
Certified Temperature: –67°F to +158°F (–55°C to +70°C) hazardous locations
 –67°F to +131°F (–55°C to +55°C) ordinary locations
Ingress Protection: NEMA 4x & 6, IP66 & IP67.
Terminals: 6 off suitable for up to 14 AWG conductor size
Labels: Duty/Tag Label optional.
Entries: 2 x 1/2" NPT
Strobe/Sounder Unit: The strobe may be combined with an MEDC sounder to create a visual/audible alarm.
 Contact MEDC for price and specification.

| | DC | AC50/60 Hz | |
|-------------------------------|-------|------------|-------|
| Voltage | 24 | 110 | 240 |
| XB11 Tube Energy (Joules) | 5 | 5 | 5 |
| Peak Current Consumption (mA) | 320 | 100 | 60 |
| Effective Intensity (Cd) | 29 | 29 | 29 |
| Peak Intensity (Cd) | 22213 | 22213 | 22213 |
| Power Consumption (Watts) | 8 | 11 | 14.4 |

NOTE: The Cd figures are for a clear lens @ 1Hz flash rate.

FOR COLORED LENSES

| Color | Red | Blue | Amber | Green | Yellow |
|--------------------|------|------|-------|-------|--------|
| Multiplying Factor | 0.15 | 0.12 | 0.51 | 0.49 | 0.86 |

The photometric data has been verified by BSI.
 A report is available if required.

Configuration Options:

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

| Certification | Voltage | Flash Rate | Lens Color | Lens Guard | Unit Fixing | Earth Continuity | Tag/Duty Label | Other Options | Unit Finish | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------|-------------------|-------------------|-------------------|------------------------|-------------------------|---|----------------------|--------------------|----------|-----|-----------|-----|-----------|-----|--|------------|------|--------|----|--|--|--|-------|------|-----|---|------|---|-------|---|-------|---|--------|---|-------|---|---|-------|------|------|---|-----|---|--|-------------|------|-----------------|---|-----------|---|--|------------|------|------|---|--|-------|------|------|---|-----|---|------------------|--|--|--------|------|---------------|---|------|---|---|--------|------|---------------|---|-----|---|------|---|--------|---|------|---|-------|---|----------------|---|
| XB11 | | | | | | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><th>Certification</th><th>Code</th></tr> <tr><td>UL</td><td>UL</td></tr> <tr><td>UL (Ordinary location)</td><td>UW</td></tr> </table> | Certification | Code | UL | UL | UL (Ordinary location) | UW | <table border="1"> <tr><th>Voltage</th><th>Code</th></tr> <tr><td>24V d.c.</td><td>024</td></tr> <tr><td>110V a.c.</td><td>110</td></tr> <tr><td>240V a.c.</td><td>240</td></tr> </table> | Voltage | Code | 24V d.c. | 024 | 110V a.c. | 110 | 240V a.c. | 240 | <table border="1"> <tr><th>Flash Rate</th><th>Code</th></tr> <tr><td>60/min</td><td>06</td></tr> <tr><td colspan="2">Other flash rates available, please specify.</td></tr> </table> | Flash Rate | Code | 60/min | 06 | Other flash rates available, please specify. | | <table border="1"> <tr><th>Color</th><th>Code</th></tr> <tr><td>Red</td><td>R</td></tr> <tr><td>Blue</td><td>B</td></tr> <tr><td>Green</td><td>G</td></tr> <tr><td>Amber</td><td>A</td></tr> <tr><td>Yellow</td><td>Y</td></tr> <tr><td>Clear</td><td>C</td></tr> </table> | Color | Code | Red | R | Blue | B | Green | G | Amber | A | Yellow | Y | Clear | C | <table border="1"> <tr><th>Guard</th><th>Code</th></tr> <tr><td>None</td><td>N</td></tr> <tr><td>Yes</td><td>Y</td></tr> </table> | Guard | Code | None | N | Yes | Y | <table border="1"> <tr><th>Unit Fixing</th><th>Code</th></tr> <tr><td>Direct Mounting</td><td>D</td></tr> <tr><td>Backstrap</td><td>B</td></tr> </table> | Unit Fixing | Code | Direct Mounting | D | Backstrap | B | <table border="1"> <tr><th>Continuity</th><th>Code</th></tr> <tr><td>None</td><td>N</td></tr> </table> | Continuity | Code | None | N | <table border="1"> <tr><th>Label</th><th>Code</th></tr> <tr><td>None</td><td>N</td></tr> <tr><td>Yes</td><td>Y</td></tr> <tr><td colspan="2">(Please specify)</td></tr> </table> | Label | Code | None | N | Yes | Y | (Please specify) | | <table border="1"> <tr><th>Option</th><th>Code</th></tr> <tr><td>Blanking Plug</td><td>P</td></tr> <tr><td>None</td><td>N</td></tr> </table> | Option | Code | Blanking Plug | P | None | N | <table border="1"> <tr><th>Finish</th><th>Code</th></tr> <tr><td>Natural Black</td><td>N</td></tr> <tr><td>Red</td><td>R</td></tr> <tr><td>Blue</td><td>B</td></tr> <tr><td>Yellow</td><td>Y</td></tr> <tr><td>Grey</td><td>G</td></tr> <tr><td>White</td><td>W</td></tr> <tr><td>Special Finish</td><td>S</td></tr> </table> | Finish | Code | Natural Black | N | Red | R | Blue | B | Yellow | Y | Grey | G | White | W | Special Finish | S |
| Certification | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UL | UL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UL (Ordinary location) | UW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Voltage | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24V d.c. | 024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 110V a.c. | 110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240V a.c. | 240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flash Rate | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60/min | 06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other flash rates available, please specify. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Color | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red | R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blue | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Green | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amber | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yellow | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Guard | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| None | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yes | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unit Fixing | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Direct Mounting | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Backstrap | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Continuity | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| None | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Label | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| None | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yes | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Please specify) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Option | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blanking Plug | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| None | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finish | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Natural Black | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red | R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blue | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yellow | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grey | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Finish | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Standard Models

| Series | Model Number | Order Code | Description |
|--------|--------------------|------------|--|
| XB11 | XB11UL02406RNBNNNR | 109201-001 | Strobe, Red lens, 29 candela, 24 VDC, Red Finish |
| XB11 | XB11UL02406CNBNNNR | 109201-002 | Strobe, Clear lens, 29 candela, 24 VDC, Red Finish |
| XB11 | XB11UL02406RNBNNNN | 109201-003 | Strobe, Red lens, 29 candela, 24 VDC, Black Finish |

COOPER Wheelock

273 Branchport Avenue
 Long Branch, NJ 07740
 Phone: (800) 631-2148
 Fax: (732) 222-2588
 www.cooperwheelock.com

WE ENCOURAGE AND SUPPORT NICET CERTIFICATION
 3 YEAR WARRANTY
 Made in USA

XB11 10/06



Strobe - 355 candela, Hazardous Location XB12



Description:

These high output certified strobes have been designed for use in potentially explosive atmospheres and harsh environmental conditions. The enclosures are suitable for use offshore or onshore, where light weight combined with corrosion resistance is required.

The strobe housing is manufactured completely from a U.V. stable, glass reinforced polyester. Stainless steel screws and mounting bracket are incorporated ensuring a totally corrosion free product.

Units can be painted to customer specification and supplied with identification labels.

Features*:

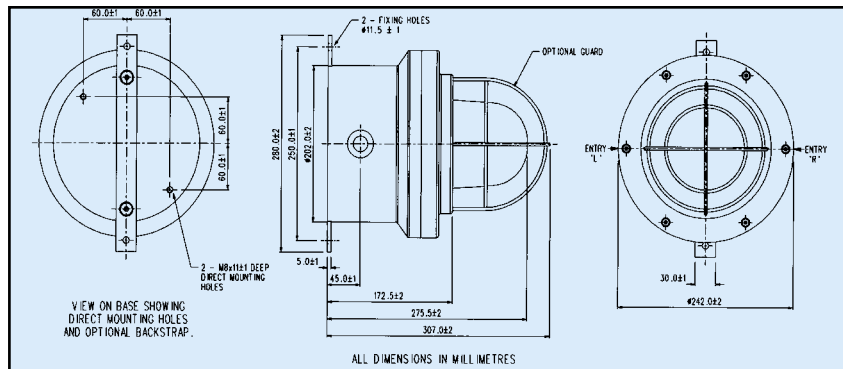
- ★ UL Listed for USA and Canada
 - Hazardous locations:
 - Class I, Div 2, Groups C & D.
 - Class I, Zones 1 & 2, AExd IIB T4 & T5.
 - Ordinary locations: Visual-Signal Device
- ★ ATEX approved
- ★ High Output 355 candela with clear lens
- ★ NEMA 4x & 6, IP66 and IP67
- ★ Certified temperature -67°F to $+158^{\circ}\text{F}$ (-55°C to $+70^{\circ}\text{C}$)
- ★ Corrosion resistant GRP
- ★ Optional stainless steel backstrap
- ★ Various lens colors
- ★ Optional lens guard
- ★ 4 wire monitored connection
- ★ 24 VDC, 110 & 240 VAC
- ★ Xenon
- ★ Twin replaceable tubes

Architects and Engineers Specifications

Strobes for hazardous locations and harsh environments shall be UL and cUL listed for Class I, Division 2, Groups C&D, and Class I, Zones 1&2, AExd IIB T4/T5 applications and shall be listed under UL Standard 1638 for Indoor/Outdoor use. They shall be constructed of lightweight, UV stable glass reinforced polyester, shall be corrosion resistant, and shall meet NEMA 4x, NEMA 6, IP 66 & IP 67 environmental requirements over a temperature range of -67°F to $+158^{\circ}\text{F}$ (-55°C to $+70^{\circ}\text{C}$).

The strobes shall be rated to flash at 1 Hz with 355 candela per flash. Rated current draw shall not exceed 1400 mA at 24 vdc. The strobe shall be capable of direct surface mounting in any direction.

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



Specification

| | |
|------------------------|---|
| Certification: | UL Listed for USA and Canada: – Hazardous locations: Class I, Div 2 Groups C & D. Class I, Zones 1 & 2 AExd IIB T4/T5. UL Listing No: E187894. – Ordinary locations: Visual-Signal Device. UL listing No. S8128. ATEX approved: EExd IIB T4/T5 Cert. No. 99 ATEX 2196 |
| Material: | Body: – Glass reinforced polyester (GRP). Lens: – Toughened Glass. Cover Screws + Backstrap: – Stainless steel 316. |
| Finish: | Natural black or painted to customer specification. |
| Weight: | 15-1/2lb./7.0Kg. |
| Certified Temperature: | –67°F to +158°F (–55°C to +70°C) hazardous locations –67°F to +131°F (–55°C to +55°C) ordinary locations |
| Ingress Protection: | NEMA 4x & 6, IP66 & IP67. |
| Terminals: | 6 off suitable for up to 10 AWG conductor size |
| Labels: | Duty/Tag Label optional. |
| Entries: | 2 x 1/2" NPT |

Configuration Options:

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

| | | | | | | | | | |
|---------------|---------|------------|------------|------------|-------------|------------------|----------------|---------|-------------|
| Certification | Voltage | Flash Rate | Lens Color | Lens Guard | Unit Fixing | Earth Continuity | Tag/Duty Label | Options | Unit Finish |
| XB12 | | | | | | N | | | |

| | |
|-------------------------|------|
| Certification | Code |
| UL | UL |
| UL (ordinary locations) | UW |

| | |
|-----------|------|
| Voltage | Code |
| 24V d.c. | 024 |
| 110V a.c. | 110 |
| 240V a.c. | 240 |

| | |
|--|------|
| Flash Rate | Code |
| 60/min | 06 |
| Other flash rates available, please specify. | |

| | |
|-------|------|
| Guard | Code |
| None | N |
| Yes | Y |

| | |
|--------|------|
| Color | Code |
| Red | R |
| Blue | B |
| Green | G |
| Amber | A |
| Yellow | Y |
| Clear | C |

| | |
|-----------------|------|
| Unit Fixing | Code |
| Direct Mounting | D |
| Backstrap | B |

| | |
|------------|------|
| Continuity | Code |
| None | N |

| | |
|-------------------|------|
| Label | Code |
| None | N |
| Yes | Y* |
| *(Please specify) | |

| | |
|---------------|------|
| Options | Code |
| Blanking Plug | P |
| None | N |

| | |
|----------------|------|
| Finish | Code |
| Natural Black | N |
| Red | R |
| Blue | B |
| Yellow | Y |
| Grey | G |
| White | W |
| Special Finish | S |

Standard Models

| Series | Model Number | Order Code | Description |
|--------|--------------------|------------|---|
| XB12 | XB12UL02406RNBNNNR | 109204-001 | Strobe, Red Lens, 355 candela, 24 VDC, Red finish |
| XB12 | XB12UL02406CNBNNNR | 109204-002 | Strobe, Clear Lens, 355 candela, 24 VDC, Red finish |
| XB12 | XB12UL02406RNBNNNN | 109204-003 | Strobe, Red Lens, 355 candela, 24 VDC, Black finish |

COOPER Wheelock

273 Branchport Avenue
Long Branch, NJ 07740
Phone: (800) 631-2148
Fax: (732) 222-2588
www.cooperwheelock.com

| | DC | AC50/60 Hz | |
|---|--------|------------|--------|
| Voltage | 24 | 110 | 240 |
| XB12 Tube Energy (Joules) | | | |
| Peak Current Consumption (mA) | 1400 | 350 | 185 |
| Effective Intensity (Cd) | 355 | 355 | 355 |
| Peak Intensity (Cd) | 123691 | 123691 | 123691 |
| Power Consumption (Watts) | 33.6 | 38.5 | 44.4 |
| NOTE: The Cd figures are for a clear lens @ 1Hz flash rate. | | | |

For Colored Lenses

| Color | Red | Blue | Amber | Green | Yellow |
|--------------------|------|------|-------|-------|--------|
| Multiplying Factor | 0.15 | 0.12 | 0.51 | 0.49 | 0.86 |

The photometric data has been verified by BSI. A report is available if required.

WE ENCOURAGE AND SUPPORT NICET CERTIFICATION
3 YEAR WARRANTY
Made in USA

Strobe - 330 Candela, Hazardous Location XB15



XB15
Pipe Mount
(with cast guard)

XB15 Direct
Mount (with
wire guard)

Description:

These listed strobes have been designed for use in potentially explosive atmospheres and harsh environmental conditions. The enclosures are suitable for use offshore or onshore, where light weight combined with corrosion resistance is required.

The housings are manufactured completely from a U.V. stable, glass reinforced polyester. Stainless steel screws and mounting bracket are available ensuring a totally corrosion-free product.

The model XB15 contains a supervisory diode and four wire lead connections for fire alarm applications.

Units can be painted to customer specification and supplied with identification labels.

Features*:

- ★ UL listed for USA and Canada
 - Hazardous locations:
 - Class I, Div. 2, Groups A, B, C & D.
 - Class I, Zone 1, AExd IIC T4/T5
 - Ordinary locations: Visual-Signal Device
- ★ ATEX approved
- ★ NEMA 4x & 6, IP66 & 67
- ★ Certified temperature -67°F to $+158^{\circ}\text{F}$ (-55°C to $+70^{\circ}\text{C}$)
- ★ Pipe mount or direct mount enclosure
- ★ Corrosion-free GRP
- ★ Four wires and supervisory diode
- ★ Optional stainless steel backstrap (direct mount version only)
- ★ Various lens colors
- ★ Optional relay
- ★ Optional cast or wire lens guard
- ★ Up to 3 x 3/4" NPT entries
- ★ Filament version available (100W max)

*Depends on version

Architects and Engineers Specifications

Strobes for hazardous locations and harsh environments shall be UL and cUL Listed for Class I, Division 2, Groups A,B,C&D, and Class I, Zones 1, AExd IIC T5/T6 applications and shall be listed under UL Standard 1638 for Indoor/ Outdoor use. They shall be constructed of lightweight, UV stable glass reinforced polyester, shall be corrosion resistant, and shall meet NEMA 4x, NEMA 6, IP 66 & IP 67 environmental requirements over a temperature range of -67°F to $+158^{\circ}\text{F}$ (-55°C to $+70^{\circ}\text{C}$).

The strobes shall be rated to flash at 1 Hz with 330 candela per flash. Rated current draw shall not exceed 780 mA at 24 vdc. The strobes shall be available for direct surface mounting or pipe mounting and shall be able to mount in any direction

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

Strobe - 285 Candela, Hazardous Location XB16



Description:

These listed strobes have been designed for use in potentially explosive atmospheres and harsh environmental conditions. The enclosures are suitable for use offshore or onshore, where light weight combined with corrosion resistance is required.

The housing is manufactured from a U.V. stable, glass reinforced polyester, with the lens manufactured from a U.V. stable polycarbonate. Stainless steel screws are used ensuring a totally corrosion-free product.

The model XB16 contains supervisory diode and four wire leads for fire alarm applications. This strobe is also available UL 1971 (ADA) listed for hearing impaired applications.

Units can be painted to customer specification and supplied with identification labels.

Features*:

- ★ UL listed for USA and Canada
 - Hazardous locations for USA and Canada
 - Class I, Div. 2, Groups A, B, C & D
 - Class II, Div. 2, Groups F & G
 - UL 1971 compliant version available†
 - Ordinary locations: Visual Signal Device
 - 'T' Rating model dependent. Contact sales office for information
- ★ NEMA 4x & 6, IP66 & 67
- ★ Certified temperature -67°F to +158°F (-55°C to +70°C)
- ★ Pipe mount with 3/4" NPT entry
- ★ Corrosion-free GRP enclosure
- ★ 285 candela
- ★ Polycarbonate lens, various colors available†
- ★ 4 wire diode monitored board
- ★ Optional relay initiate
- ★ Optional lens guard

*Depends on version

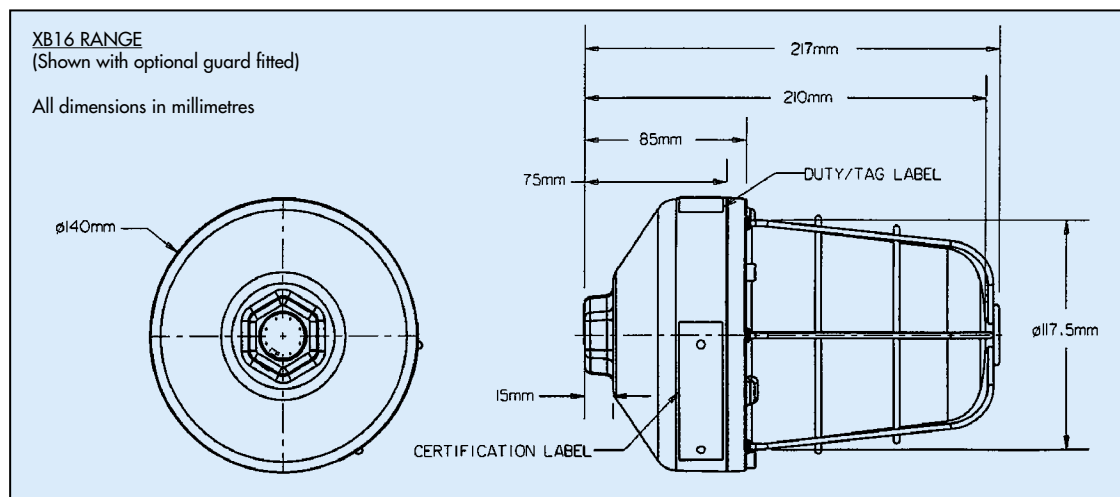
†UL 1971 version available with clear lens only.

Architects and Engineers Specifications

Strobes for hazardous locations and harsh environments shall be UL and cUL listed for Class I, Division 2, Groups A, B, C & D applications and shall be listed under UL Standard 1638 for Indoor/Outdoor use. The strobes shall be available with UL 1971 Listing (Standard for Safety Signaling Devices for Hearing Impaired). They shall be constructed of lightweight, UV stable glass reinforced polyester, shall be corrosion resistant, and shall meet NEMA 4x, NEMA 6, IP 66 and IP 67 environmental requirements over a temperature range of -67°F to 158°F (-55°C to 70°C).

The strobes shall be rated to flash at 1 Hz with 285 candela per flash. Rated current draw shall not exceed 890 mA at 24 vdc. The strobes shall be pipe mounted and shall be capable of mounting in any direction.

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



Specification

| | |
|------------------------|--|
| Certification: | UL Listed for USA and Canada: – Hazardous locations for USA and Canada: UL1604. Class I, Div 2, groups A, B, C & D. Class II, Div. 2, groups F & G UL listing No. E251185. – Ordinary locations: Visual Signal Device: UL1638. UL listing No. E251185. – Hazardous locations for hearing impaired: UL1971. UL listing No. E251185. |
| Material: | Body: Glass reinforced polyester. Lens: U.V. stable polycarbonate. Lens screws: stainless steel 316. |
| Finish: | Natural black or painted to customer specification. |
| Voltage: | 24, 48V d.c. 110, 120, 230, 240, 254V a.c. Conforms to UL regulated voltage output (24Vdc, 120Vac, 240Vac). |
| Certified Temperature: | -67°F to +158°F (-55°C to +70°C) |
| Tube Energy: | 10 Joules. |
| Tube life: | >1 x 10 ⁶ flashes. |
| Weight: | 2.2lb./1.0 Kg. |

| | |
|---------------------|---|
| Ingress Protection: | NEMA 4x & 6, IP66 & IP67. |
| Entries: | Standard 1 x 3/4" NPT pipe mount. (Contact Sales Office if 1/2" NPT is required). |
| Terminals: | 8 x 14AWG |
| Labels: | Tag/Duty label option. |
| Electrical ratings: | |

| | DC | | AC | | | | |
|--|------|------|------|------|------|------|------|
| Voltage | 24 | 48 | 110 | 120 | 230 | 240 | 254 |
| Current | 0.89 | 0.30 | 0.38 | 0.38 | 0.22 | 0.22 | 0.18 |
| Effective candlepower (Cd): 285 at 60 f.p.m. | | | | | | | |
| Peak candlepower: 580,000 (Peak candlepower is the maximum light intensity generated by a flashing light during its light pulse) | | | | | | | |

UL 1971 On-axis output: 15 Cd.

Multiplying factor for colored lenses:

| Red | Blue | Amber | Green | Yellow |
|------|------|-------|-------|--------|
| 0.15 | 0.12 | 0.51 | 0.49 | 0.86 |

Relay Initiate: 24V dc relay initiate only.

Configuration Options:

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

| Model | Certification | Voltage | Flashrate | Lens Color | Guard | Other Options | Finish | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--|----------------------|----------------------|----------------------|----------------------|-------------------------|----------------------|---------|----|--|---------|------|--------|-----|--------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--|-----------|------|--------|----|--------|----|---------|-----|---|-------|------|-----|---|------|---|-------|---|-------|---|--------|---|-------|----|--|-------|------|-----|---|------|---|---|--------|------|-----------|---|------------|---|-----------------|---|------|---|--|--------|------|---------------|---|-----|---|------|---|--------|---|-------|---|-------|---|----------------|---|
| XB16 | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Certification</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>UL</td> <td>UL</td> </tr> <tr> <td>UL (ordinary locations)</td> <td>UW</td> </tr> <tr> <td>UL 1971</td> <td>US</td> </tr> </tbody> </table> | Certification | Code | UL | UL | UL (ordinary locations) | UW | UL 1971 | US | <table border="1"> <thead> <tr> <th>Voltage</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>24 VDC</td> <td>024</td> </tr> <tr> <td>48 VDC</td> <td>048</td> </tr> <tr> <td>110 VAC</td> <td>110</td> </tr> <tr> <td>120 VAC</td> <td>120</td> </tr> <tr> <td>230 VAC</td> <td>230</td> </tr> <tr> <td>240 VAC</td> <td>240</td> </tr> <tr> <td>254 VAC</td> <td>254</td> </tr> </tbody> </table> | Voltage | Code | 24 VDC | 024 | 48 VDC | 048 | 110 VAC | 110 | 120 VAC | 120 | 230 VAC | 230 | 240 VAC | 240 | 254 VAC | 254 | <table border="1"> <thead> <tr> <th>Flashrate</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>60 fpm</td> <td>60</td> </tr> <tr> <td>80 fpm</td> <td>80</td> </tr> <tr> <td>120 fpm</td> <td>120</td> </tr> </tbody> </table> | Flashrate | Code | 60 fpm | 60 | 80 fpm | 80 | 120 fpm | 120 | <table border="1"> <thead> <tr> <th>Color</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>R</td> </tr> <tr> <td>Blue</td> <td>B</td> </tr> <tr> <td>Green</td> <td>G</td> </tr> <tr> <td>Amber</td> <td>A</td> </tr> <tr> <td>Yellow</td> <td>Y</td> </tr> <tr> <td>Clear</td> <td>C*</td> </tr> </tbody> </table> <p>*UL 1971 version available with clear lens only</p> | Color | Code | Red | R | Blue | B | Green | G | Amber | A | Yellow | Y | Clear | C* | <table border="1"> <thead> <tr> <th>Guard</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>Y</td> </tr> <tr> <td>None</td> <td>N</td> </tr> </tbody> </table> | Guard | Code | Yes | Y | None | N | <table border="1"> <thead> <tr> <th>Option</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Tag label</td> <td>T</td> </tr> <tr> <td>Duty label</td> <td>D</td> </tr> <tr> <td>Relay initiate*</td> <td>R</td> </tr> <tr> <td>None</td> <td>N</td> </tr> </tbody> </table> <p>*Suitable for 24V dc supplies only.</p> | Option | Code | Tag label | T | Duty label | D | Relay initiate* | R | None | N | <table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Natural Black</td> <td>N</td> </tr> <tr> <td>Red</td> <td>R</td> </tr> <tr> <td>Blue</td> <td>B</td> </tr> <tr> <td>Yellow</td> <td>Y</td> </tr> <tr> <td>Green</td> <td>G</td> </tr> <tr> <td>White</td> <td>W</td> </tr> <tr> <td>Special Finish</td> <td>S</td> </tr> </tbody> </table> | Finish | Code | Natural Black | N | Red | R | Blue | B | Yellow | Y | Green | G | White | W | Special Finish | S |
| Certification | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UL | UL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UL (ordinary locations) | UW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UL 1971 | US | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Voltage | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 VDC | 024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48 VDC | 048 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 110 VAC | 110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120 VAC | 120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 230 VAC | 230 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240 VAC | 240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 254 VAC | 254 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flashrate | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 fpm | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 fpm | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120 fpm | 120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Color | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red | R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blue | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Green | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amber | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yellow | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear | C* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Guard | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yes | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| None | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Option | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tag label | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duty label | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relay initiate* | R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| None | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finish | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Natural Black | N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red | R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blue | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yellow | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Green | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Finish | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Standard Models

| Series | Model Number | Order Code | Description |
|--------|-----------------|------------|---|
| XB16 | XB16UL02460RYNN | 109202-001 | Strobe, Red lens, 285 candela, 24 VDC, black finish |
| XB16 | XB16US04860CYNR | 109202-002 | Strobe, Clear lens, 285 candela, 24 VDC, black finish |

COOPER Wheelock

273 Branchport Avenue
Long Branch, NJ 07740
Phone: (800) 631-2148
Fax: (732) 222-2588
www.cooperwheelock.com



WE ENCOURAGE AND SUPPORT NICET CERTIFICATION
3 YEAR WARRANTY
Made in USA

XB16 10/06

Speakers - Up to 25 Watts, Hazardous Location, Weatherproof DB4 Range



15W/20W/25W (Long Flare) 8W (Short Flare)

Description:

This range of loudspeakers, intended for use in potentially explosive gas and dust atmospheres, has a power rating of up to 25 watts at 70.7 VRMS and is suitable for use in all gas groups including hydrogen.

The flamepaths, flare and the body, are manufactured completely from a UV stable glass reinforced polyester. Stainless steel screws and sinter are incorporated thus ensuring a corrosion free product. A tapered flamepath is used to overcome the problems of assembly of parallel spigot flamepaths.

This product does not include a blocking capacitor. Contact Cooper Wheelock Technical Support for models with a blocking capacitor.

Features*:

- ★ UL listed for USA and Canada:
 - Class I, Div 2, Groups A-D.
 - Class I, Zones 1 & 2, AExd IIC, T4.
- ★ Zone 1, Zone 2 & non-Ex use
- ★ ATEX approved
- ★ NEMA 4x & 6, IP66 and IP67
- ★ Certified temperature –67°F to +158°F (55°C to +70°C)
- ★ GRP corrosion-free flamepaths
- ★ 109dBA at 25 watts at 10 feet
- ★ 8, 15 and 25 watt versions
- ★ Power tapplings, via integral transformer
- ★ Ratcheted swivel bracket
- ★ Stainless steel sinter
- ★ Stainless steel mounting bracket
- ★ Tapered flamepath

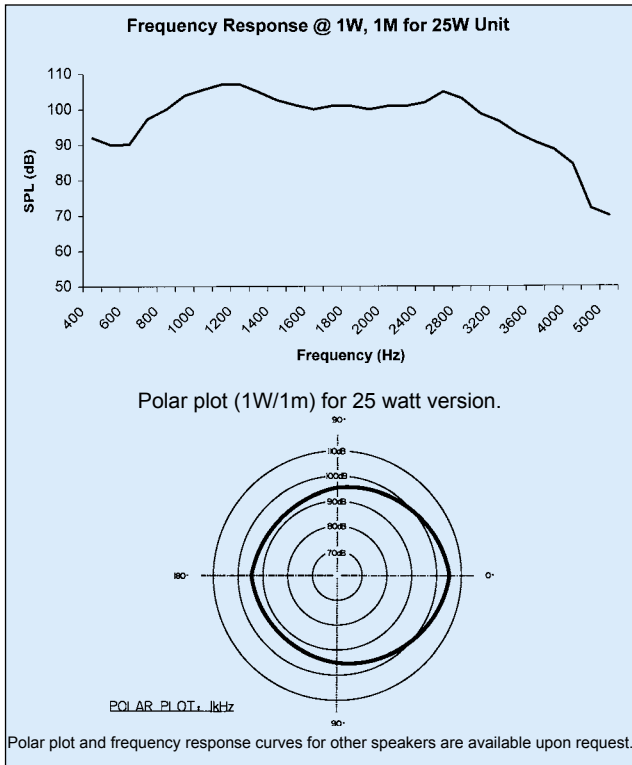
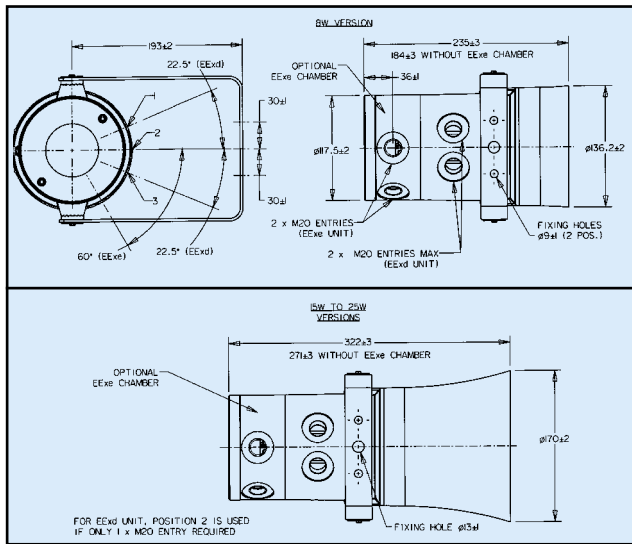
*Depends on version

Architects and Engineers Specifications

Speakers for hazardous locations and harsh environments shall be UL and cUL listed for Class I, Division 2, Groups A,B,C&D, and Class I, Zones 1, AExd IIC T4 applications. They shall be constructed of lightweight, UV stable glass reinforced polyester, shall be corrosion resistant, and shall meet NEMA 4x, NEMA 6, IP 66 & IP 67 environmental requirements over a temperature range of -67°F to +158°F (-55°C to +70°C).

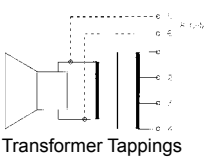
The speakers shall be rated for 70.7 VRMS input with power taps for 1,2,4,6,12.5 or 25 watt operation. Rated sound output shall be up to 109 dBA at 10 feet and rated frequency response shall be 400Hz to 8kHz. The speakers shall include a stainless steel mounting bracket with ratchet facility to direct sound output.

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



Specification

| | |
|------------------------|--|
| Rated Power: | 8, 15 or 25 watts RMS continuous (at 77°F). |
| Certification: | UL listed for USA and Canada: <ul style="list-style-type: none"> Class I, Div 2, Groups A-D. Class I, Zones 1 & 2, AExd IIC T4. ATEX approved: EN50014, 18, 19. No. BAS00ATEX2097X. EExd 11C T41T5 Cert. No. BAS00ATEX2098X. EExd 11C T41T5 Zones 1 & 2 not for use in atmospheres containing carbon disulphide |
| Material: | Body & horn in anti-static, UV stable, glass reinforced polyester. Swivel bracket in stainless steel. Captive cover screws in stainless steel. |
| Finish: | Body and horn, natural black or epoxy paint coated to client's color requirements. |
| Output: | 97 dBA at 1 Watt at 10 feet 109 dBA at 25 Watts at 10 feet Measured in accordance with IEC 268. |
| Weight: | 11lb./5.0kg approx. |
| Certified Temperature: | -67°F to +158°F (55°C to +70°C) |
| Ingress Protection: | NEMA 4x & 6, IP66 & IP67. |
| Fire Retardancy: | GRP is fire retardant to ISO 1210. |
| Frequency Range: | 400Hz to 8kHz. |
| Voice Coil Impedance: | 8 ohms. |
| Transformer: | Used to vary the rated power by selecting different tapings (see table below). |



| Transformer Tappings | Power | | |
|----------------------|-------|------|-----|
| | 25W | 15W | 8W |
| 1:2 | 25.0 | 15.0 | 8.0 |
| 2:3 | 12.5 | 7.5 | 4.0 |
| 3:4 | 6.0 | 5.0 | 2.0 |
| 1:3 | 4.0 | 4.0 | 1.5 |
| 2:4 | 2.0 | 2.0 | 0.7 |
| 1:4 | 1.0 | 0.8 | 0.4 |

Transformer Options:

- Standard Tapping: (4 x 2) terminal tap change (8 terminals).
- Optional Tapping: 4 terminal tap change with 2 terminals (5 & 6), directly connected to driver (8 ohms).

Other tapings & driver impedances available on request.

| | |
|----------------|--------------------------------|
| Terminals: | 8 x 14AWG |
| Mounting: | Bracket with ratchet facility. |
| Labels: | Duty and tag labels optional. |
| Cable Entries: | 2 x 1/2" NPT. |

Configuration Options:

| Max. Rated Power | | Certification | | Transformer | | Labels | | Entries | | Color | |
|------------------|------|---------------|------|--|------|-------------------------|------|---------|--|-----------------|------|
| DB4 | | UL | | | | | | | | | |
| Power | Code | Type | Code | Transformer | Code | Label | Code | | | Color | Code |
| 8 watt | 8 | UL listed | UL | Yes | X* | Duty | D* | | | Natural Black | N |
| 15 watt | 15 | | | None | N | Tag | T* | | | Red | R |
| 25 watt | 25 | | | *Std 100V | | None | N | | | Special | S* |
| | | | | Other values available, specify voltage. | | *Please specify wording | | | | *Please specify | |

Standard Models

| Series | Model Number | Order Code | Description |
|--------|--------------|------------|--|
| DB4 | DB425ULXN2CR | 109208-001 | Speaker, 70.7 VRMS, 1-25 Watts, Red Finish |

| Entries | Code |
|--------------|------|
| 1 x 1/2" NPT | 1C |
| 2 x 1/2" NPT | 2C |

To specify certified plug, suffix appropriate code with 'P'. e.g. 2CP is 2 x 1/2" NPT entries with one certified plug

Fire Alarm Call Points, Hazardous Location BG and PB



Description:

These manual fire alarm call points have been designed for use in hazardous locations and harsh environmental conditions. The GRP enclosures are suitable for use offshore or onshore, where light weight combined with a high level of corrosion resistance is required.

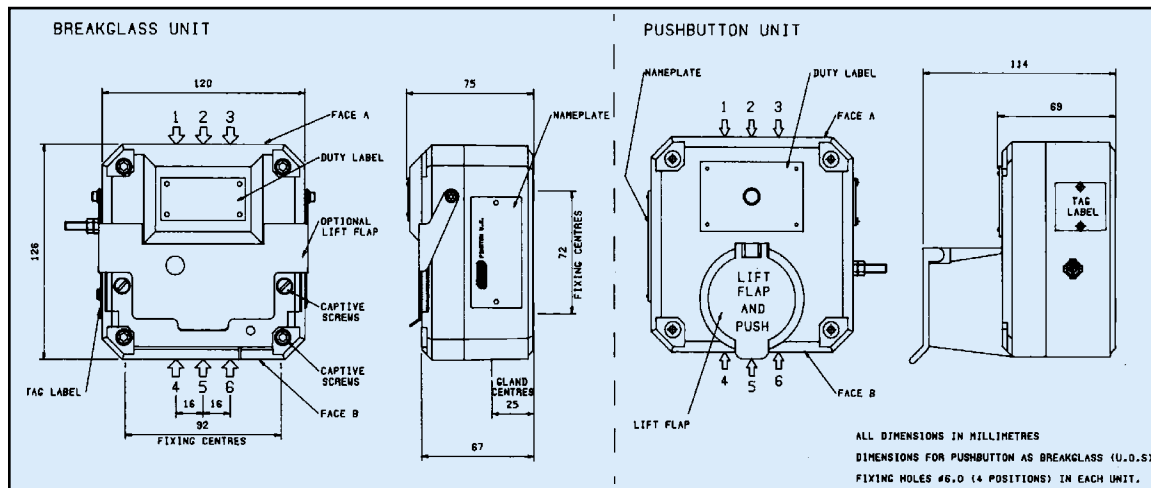
Features:

- ★ ATEX approved
- ★ UL Listed for USA and Canada
 - Hazardous locations:
 - Class I, Div 2, Groups A-D
 - Class II, Div 2, Groups F & G
 - Class I, Zones 1 & 2, AExd IIC T4
 - Ordinary locations: Audible-Signal Device
- ★ CSA Certified
- ★ NEMA 4x & 6, IP66 and IP67
- ★ Certified temperature -13°F to +131°F (-25°C to +55°C)
- ★ Corrosion resistant GRP
- ★ Plastic break glass element available
- ★ Retained stainless steel cover screws
- ★ Optional lift flap
- ★ Key operated test facility on BG

Architects and Engineers Specifications

Fire alarm call points and push buttons for hazardous locations and harsh environments shall be UL Listed for Class I, Division 2, Groups A,B,C&D, and Class I, Zone 1&2 applications. They shall be constructed of lightweight, UV stable glass reinforced polyester, shall be corrosion resistant, and shall meet NEMA 4x, NEMA 6, IP 66 & IP 67 environmental requirements over a temperature range of -13°F to +131°F (-25°C to +55°C).

Actuation of the call point or push button shall require the opening of a flap and depression of an actuator. An actuated unit shall remain latched until reset. A reset operation shall only take place through the use of a key.



Specification

Certification: **UL Listed for USA and Canada**

- Hazardous locations:
 - Class I, Div 2, Groups A-D.
 - Class II, Div 2, Groups F & G.
 - Class I Zones 1 & 2, AExd IIC T4.
 - Listing No: E186629
- Ordinary locations: Audible-Signal Device.
 - Listing No. S8117.

CSA Certified to C22.2 (PB only), Nos. 0-M, 0.4M, 14-M, 25,30-M, 94, 142-M 1987, 157M 1987, 157-92, Enclosure Type 4, 4A, Class 1, Groups A-D, Cert. No. 79120.

ATEX Approved: EN50014, EN50018, EN50019, EN50028. Cert. No. BAS02ATEX2105X (BG & PB), EExed II C T6 (switch only), EExedm IIC T4 (other versions). Zones 1 and 2.

Voltage: Up to 240V.

Certified temp: BGUL: -13°F to +131°F (-25°C to +55°C); PBUL: -13°F to +131°F (-25°C to +55°C). PB (CSA): -58°F to +104°F (-50°C to +40°C).

Ingress Protection: NEMA 4x & 6, IP66 & 67.

Terminals: 6 x 14 AWG standard (BGUL), 7 or 9 x 14 AWG standard.

Switch Rating (1 or 2 changeover switches fitted): Max Rating 240VAC, 3A.

Cable Entries: Up to 4 entries 1/2" NPT.

Weight: 2.6 lb/1.2kg (Varies with model & entries).

Material: Glass reinforced polyester.

Finish: Red epoxy painted finish as standard or to Customer's specification.

Resistors: Various configurations available on versions up to 24V, 470R minimum.

LED Indication: A high intensity red LED can be fitted as an optional extra to indicate operation on versions up to 24V.

Labelling: BG Glass label – reads either
 (1) Fire Break glass – press here.
 (2) Break glass – press here.
 (3) Worded to Client's requirements.

PB & BG Duty label – worded to Client's requirements. Riveted on.

PB & BG Tag label – worded to Client's requirements. Screwed on.

Configuration Options:

Model

Model

BG

PB

Certification

Certification

CSA – Exi (PBI only)

UL – Class I, Div. 2

UL - Ordinary locations

Entries

Entries

1½" NPT

*Prefix entry size (see diagram above) with entry position code e.g. 1A, 2A.

Labels

Labels

None

Glass label (1) reqd.

Glass label (2) reqd.

Glass label (3) reqd.

Duty label reqd.

Tag label reqd.

Specify wording on 3, 4 or 5 as required.

Switches

Switches

Single changeover

Double changeover

*Prefix with voltage

A for A.C. – D for D.C. except for BGL.

Features

Features

None

LED

Lift Flap (BG only)

Resistor Series

Resistor EOL

Break glass

*Specify values

Terminals

Terminals

*6 x 14 AWG (standard)

7 x 14 AWG (standard)

9 x 14 AWG (optional)

*BGUL only

Finish

Finish

Red (Standard)

Natural Black

Blue

Yellow

Grey

Yellow/Black

Stripes

Other – specify

Code

*C

IC

UL

UW

0

1

2

3

4

5

N

A

B

*C

*D

P

*S

*D

Standard Models

| Series | Model Number | Order Code | Description |
|--------|----------------|------------|-------------------------------------|
| PB | PBUL4C6C4DSN7R | 109210-001 | Push button, Fire label, Red finish |

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WE ENCOURAGE AND SUPPORT NICET CERTIFICATION
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BG and PB 08/06