

# Notification Appliances

**SET – Speakers and Speaker Strobes**

**Application: Indoor / Outdoor**



**SET-MC-CW**  
Speaker Strobe



**SET-CW**  
Speaker



**SET-MC-R**  
Speaker Strobe



**SET-W**  
Speaker

## Product Overview

- Fast installation with In / Out screw terminals using #12 to #18 AWG wires
- High-efficiency design for maximum output at minimum wattage across a frequency range of 400 to 4000Hz
- Field-selectable taps for 25 or 70 VRMS operation from 1/8 Watt to 8 Watts
- Strobes can be synchronized using the Siemens DSC sync modules; the Siemens 50-point, 252-point and 504-point fire alarm control panels (FACPs), as well as with:
  - FireFinder® XLS and MXL® FACPs
  - PAD-3 or PAD-4L NAC Extenders with built-in sync protocol
- Ceiling-mount models are available with field-selectable Candela settings of 15/30/75/95cd or 115/177cd
- Wall-mount models are available with field-selectable Candela settings of 15/30/75/110cd or 135/185cd (multi-Candela models)
- Weatherproof (single-candela) models are available with the following ratings:
  - 30/180cd (ceiling or wall mount), per UL 1971
  - 115cd (ceiling or wall mount), per UL 1638
  - 177cd (ceiling-only mount) per UL 1971
  - 75cd (ceiling-only mount), per UL 1638
  - 185cd (wall-only mount), per UL 1971
  - 90cd (wall-only mount), per UL 1638
- UL Listed;
  - FM, CSFM and NYCFD Approved
  - CSFM (#7125-0067:0254 -> Fire Alarm Devices For The Hearing Impaired)
  - CSFM (#7125-0067:0255 -> Speakers)
- ADA / NFPA compliant

## Specifications

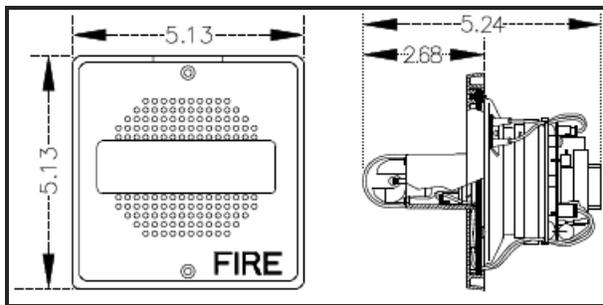
- Speaker appliances are Siemens Series 'SET' Speakers and speaker / strobe appliances are Siemens Series 'SET' Speaker Strobes or approved equals
  - speakers are UL Listed under Standard 1480 for Fire Protective Service
  - speaker-strobes are UL Listed under Standard 1971 for Emergency Devices for the Hearing-Impaired
  - speaker-strobes are UL Listed under Standard 1638 for Weatherproof Devices
- Selector switch for selecting the candela is tamper-resistant

'SET' Series Strobes and Strobe Plates **2581**

## Specifications – (continued)

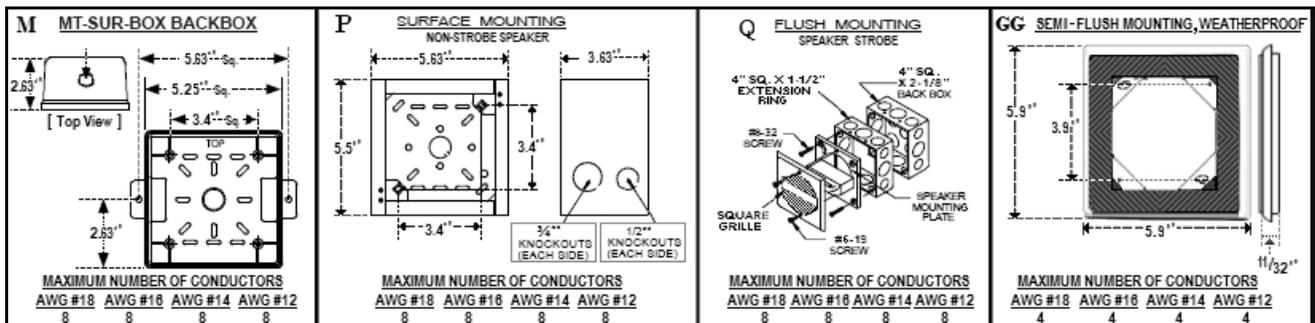
- Strobe portion of each appliance produces a flash rate of one (1) flash per second, and has a Xenon flashtube enclosed in a rugged Lexan® lens
- Strobes are of low-current design
- The strobes do not drift out of synchronization at any time during operation
- Speaker and speaker / strobe appliances are designed for indoor and outdoor surface or flush mount
- Weatherproof (single-candela) models are available with the following ratings:
  - 30/180cd (ceiling or wall mount), per @UL 1971  
115cd (ceiling or wall mount), per @UL 1638
  - 177cd (ceiling-only mount) per @UL 1971  
75cd (ceiling-only mount), per @UL 1638
  - 185cd (wall-only mount), per @UL 1971  
90cd (wall-only mount), per @UL 1638
- Ceiling-mount models are available with field-selectable Candela settings of 15/30/75/95cd or 115/177cd
- Wall-mount models are available with field-selectable Candela settings of 15/30/75/110cd or 135/185cd
- All speaker models have a listed sound output of up to 93dB at 10 feet, and a listed frequency response of 400 to 4000Hz
- All inputs employ terminals that accept #12 to #18 AWG wire sizes
- Speaker and speaker / strobe incorporate a speaker-mounting plate with a grille cover, which is secured with two screws for a level finish
  - Grille cover mounts to standard electrical hardware requiring no additional trim plate or adapter
- The finish of the Series SET speakers and speakers strobes is available in either white or red
- All speaker and speaker / strobe appliances are listed for Special Applications:
  - Strobes are designed to flash at 1-flash-per-second minimum over their "Regulated Input Voltage Range"
    - **Note:** NFPA-72 specifies a flash rate of 1-to-2 flashes per second, and ADA Guidelines specify a flash rate of 1-to-3 flashes per second
  - All candela ratings represent minimum-effective Strobe intensity, based on @UL Standard 1971

## Mounting Diagram



(Shown In Inches)

## Mounting Options



# Technical Data

## SET-MC and SET-HMC Series Strobes: Wall Mount

| Current Ratings (AMPs) |                 |       |       |       |       |       |       |
|------------------------|-----------------|-------|-------|-------|-------|-------|-------|
| MAXIMUM RMS Current    |                 |       |       |       |       |       |       |
| Input Voltage          |                 | 15cd  | 30cd  | 75cd  | 110cd | 135cd | 185cd |
| DC                     | 16.0 – 33.0VDC  | 0.064 | 0.098 | 0.175 | 0.233 | 0.318 | 0.445 |
| FWR                    | 16.0 – 33.0VRMS | 0.108 | 0.164 | 0.268 | 0.368 | 0.482 | 0.684 |

## SET-MC-C and SET-HMC-C Series Strobes: Ceiling

| Current Ratings (AMPs) |                 |       |       |       |       |       |       |
|------------------------|-----------------|-------|-------|-------|-------|-------|-------|
| MAXIMUM RMS Current    |                 |       |       |       |       |       |       |
| Input Voltage          |                 | 15cd  | 30cd  | 75cd  | 95cd  | 115cd | 177cd |
| DC                     | 16.0 – 33.0VDC  | 0.069 | 0.111 | 0.200 | 0.264 | 0.318 | 0.445 |
| FWR                    | 16.0 – 33.0VRMS | 0.117 | 0.180 | 0.297 | 0.398 | 0.482 | 0.684 |

## SET-177, SET-185 Series Strobes: Weatherproof

| Operating Voltage (Special Application) |                 |                  |                  |                  |                  |
|---|-----------------|------------------|------------------|------------------|------------------|
| Input Voltage                           |                 | 75cd             | 177cd            | 90cd             | 185cd            |
|   |                 | (Per<br>®UL1638) | (Per<br>®UL1971) | (Per<br>®UL1638) | (Per<br>®UL1971) |
| DC                                      | 16.0 – 33.0VDC  | 0.445            |                  | 0.445            |                  |
| FWR                                     | 16.0 – 33.0VRMS | 0.684            |                  | 0.684            |                  |

## SET-S17 Series Strobes: Weatherproof

| Operating Voltage (Special Application) |                 |               |               |
|---|-----------------|---------------|---------------|
| Input Voltage                           |                 | 115cd         | 30/180cd      |
|   |                 | (Per ®UL1638) | (Per ®UL1971) |
| DC                                      | 16.0 – 33.0VDC  | 0.146         |               |
| FWR                                     | 16.0 – 33.0VRMS | 0.235         |               |

## SET Series Strobes, Weatherproof

| ®UL Models and Ratings |   |                               |             |
|------------------------|---|-------------------------------|-------------|
| Model                  | Operating Voltage<br>(Special Application)<br>Per ®UL1971<br>(VDC / VRMS) | ®UL Rated Strobe Candela (cd) |             |
|                        |   | At -40°C,<br>per ®UL1638      | ®UL1971     |
| SET-S17-CW-WP*         | 16.0 – 33.0   | 115                           | 30 / 180 ** |
| SET-S17-WP*            | 16.0 – 33.0   | 115                           | 30 / 180 ** |
| SET-177-C-WP*          | 16.0 – 33.0   | 75                            | 177         |
| SET-185-WP*            | 16.0 – 33.0   | 90                            | 185         |

\* Available in red or white.

180cd is on Axis only \*\*

## SET | SET-MC | SET-HMC Series: Speaker Output

| ®UL Listed Models and Ratings |                             |                                 |     |     |    |    |    |    |
|-------------------------------|-----------------------------|---------------------------------|-----|-----|----|----|----|----|
| Model*                        | Operating Voltage<br>(VRMS) | dBA at 10 feet<br>(Rated Watts) |     |     |    |    |    |    |
|                               |                             | 1/8                             | 1/4 | 1/2 | 1  | 2  | 4  | 8  |
| SET                           | 25/70                       | 75                              | 78  | 81  | 84 | 87 | 90 | 93 |
| SET-C                         | 25/70                       | 75                              | 78  | 81  | 84 | 87 | 90 | 93 |
| SET-HMC                       | 25/70                       | 75                              | 78  | 81  | 84 | 87 | 90 | 93 |

\* All models available in red or white.

## SET Series: Speaker Output, Weatherproof

| ®UL Listed Models and Ratings |                             |                                 |     |     |    |    |    |    |
|-------------------------------|-----------------------------|---------------------------------|-----|-----|----|----|----|----|
| Model*                        | Operating Voltage<br>(VRMS) | dBA at 10 feet<br>(Rated Watts) |     |     |    |    |    |    |
|                               |                             | 1/8                             | 1/4 | 1/2 | 1  | 2  | 4  | 8  |
| SET-S17-CW-WP*                | 25/70                       | 77                              | 80  | 83  | 86 | 88 | 91 | 93 |
| SET-S17-WP*                   | 25/70                       | 77                              | 80  | 83  | 86 | 88 | 91 | 93 |
| SET-177-C-WP*                 | 25/70                       | 77                              | 80  | 83  | 86 | 88 | 91 | 93 |
| SET-185-WP*                   | 25/70                       | 77                              | 80  | 83  | 86 | 88 | 91 | 93 |

\* All models available in red or white.

**Notes:** 1. Models are ®UL Listed for indoor use with a temperature range of +32°F to +120°F (0°C to +49°C) and maximum humidity of 85% RH. The effect of shipping and storage temperatures will not adversely affect the performance of the appliance when it is stored in the original cartons and is not subjected to misuse or abuse

2. The maximum supervision voltage is 33 Volts DC

3. Frequency range of speakers is 400 – 4000Hz

The effect of shipping and storage temperatures will not adversely affect the performance of the appliance when it is stored in the original cartons, and is not subjected to either misuse or improper handling of shipment.

### Speaker Voltage & Wattage Connection Chart

| Position | 25V  | 70V |
|----------|------|-----|
| A        | 8    | --- |
| B        | 4    | --- |
| C        | 2    | --- |
| D        | 1    | 8   |
| E        | 1/2  | 4   |
| F        | 1/4  | 2   |
| G        | 1/8  | 1   |
| H        | ---- | 1/2 |
| G        | ---- | 1/4 |
| H        | ---- | 1/8 |

## Details for Ordering — (Including Mounting Options & Agency Approvals)

Agency Approvals

| Model         | Part Number | Description  | Mounting Options*  | UL | FM | CSFM |
|---------------|-------------|--|--------------------|----|----|------|
| SET-MC-R      | 500-636051  | SET Series: Multi-Candela, Red                       | L,P,Q,U,Y          | ✓  | ✓  | ✓    |
| SET-MC-W      | 500-636052  | SET Series: Multi-Candela, White                     | L,P,Q,U,Y          | ✓  | ✓  | ✓    |
| SET-MC-CW     | 500-636063  | SET Series: Multi-Candela Ceiling, White             | Q,U,Y              | ✓  | ✓  | ✓    |
| SET-MC-CR     | 500-636062  | SET Series: Multi-Candela Ceiling, Red               | Q,U,Y              | ✓  | ✓  | ✓    |
| SET-HMC-R     | 500-636053  | SET Series: Hi Multi-Candela, Red                    | L,P,Q,U,Y          | ✓  | ✓  | ✓    |
| SET-HMC-W     | 500-636054  | SET Series: Hi Multi-Candela, White                  | L,P,Q,U,Y          | ✓  | ✓  | ✓    |
| SET-HMC-CW    | 500-636065  | SET Series: Hi Multi-Candela Ceiling, White          | Q,U,Y              | ✓  | ✓  | ✓    |
| SET-HMC-CR    | 500-636064  | SET Series: Hi Multi-Candela Ceiling, Red            | Q,U,Y              | ✓  | ✓  | ✓    |
| SET-R         | 500-636055  | SET Series: Speaker, Red                             | P,Q,U,Y            | ✓  | ✓  | ✓    |
| SET-W         | 500-636056  | SET Series: Speaker, White                           | P,Q,U,Y            | ✓  | ✓  | ✓    |
| SET-CW        | 500-636067  | SET Series: Ceiling Speaker, White                   | Q,U                | ✓  | ✓  | ✓    |
| SET-S17-R-WP  | 500-636058  | SET Series: 15/75 Strobe Weatherproof, Red           | M   M+WPS-KIT   GG | ✓  |    | ✓    |
| SET-S17-W-WP  | 500-636059  | SET Series: 15/75 Strobe Wall Weatherproof, White    | M   M+WPS-KIT   GG | ✓  |    | ✓    |
| SET-S17-CW-WP | 500-636057  | SET Series: 15/75 Strobe Ceiling Weatherproof, White | M   M+WPS-KIT   GG | ✓  |    | ✓    |
| SET-177-CR-WP | 500-636189  | SET Series: Hi Candela Ceiling Weatherproof, Red     | M   M+WPS-KIT   GG | ✓  |    | ✓    |
| SET-177-CW-WP | 500-636190  | SET Series: Hi Candela Ceiling Weatherproof, White   | M   M+WPS-KIT   GG | ✓  |    | ✓    |
| SET-185-R-WP  | 500-636191  | SET Series: Hi Candela Wall Weatherproof, Red        | M   M+WPS-KIT   GG | ✓  |    | ✓    |
| SET-185-W-WP  | 500-636192  | SET Series: Hi Candela Wall Weatherproof, White      | M   M+WPS-KIT   GG | ✓  |    | ✓    |

**Note:** A Siemens WPS-KIT is comprised of one (1) hardware package; two (2) red plugs; two (2) white plugs, and one (1) gasket.

✓: Agency Listed / approved

\*: Refer to data sheet #2585 for detailed mounting options

**Notice:** This marketing data sheet is not intended to be used for system design or installation purposes. For the most up-to-date information, refer to each product's installation instructions.