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SILENT
KNIGHT

by Honeywell

Audio/Visual Devices

The SpectrAlert® Advance

Field Selectable
Mass Notification Devices

General

SpectrAlert® Advance mass notification devices and accessories combine application versatility with all the time- and money-saving benefits of the SpectrAlert Advance line.

SpectrAlert Advance, the broadest and most versatile line of notification devices available, includes a wide range of devices to meet mass notification application requirements.

ALERT-printed on white housings, SW-ALERT, SWH-ALERT and SPSW-ALERT amber lens strobes and speaker strobes provide visual signaling for mass notification in compliance with ANSI/UL 1638 Standard for General Signaling Visible Appliances. Other ALERT-printed models provide clear lenses for use with color lens strobe attachments (amber, blue, green, and red) that easily attach to strobe and speaker strobe devices without a candela derating.

In addition, SpectrAlert Advance mass notification devices include plain (non-printed) strobes, horn strobes and speaker strobes. These devices, along with ALERT-printed devices and SpectrAlert Advance accessories, can meet a wide range of requirements for indoor and outdoor applications, including mass notification, general signaling, severe weather and emergency response.

All SpectrAlert Advance mass notification and general signaling devices are compatible with the entire SpectrAlert Advance and include all the same time- and money-saving innovations. For example, plug-in designs simplify installation and reduce costly ground faults; universal mounting plates with onboard shorting springs test wiring continuity to speed installation and protect devices from damage; and field selectable settings provide versatility and enable installers to quickly set each device to meet application requirements

Mass Notification Features:

- Plain or ALERT-printed white housings
- Amber lens strobes and speaker strobes
- Color lens attachments for use with clear lens wall or ceiling strobes
- Meets DOD specification requirements

SpectrAlert Advance Features:

- Plug-in design for simplified installation and troubleshooting
- Mounting plate shorting spring easily tests wiring continuity
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Field-selectable candela settings of 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185
- Rated from 32°F to 120°F (indoor devices); -40°F to 151°F (NEMA 4X, IP56 weatherproof devices)
- Optional tamper-resistant Torx head screw
- Compatible with System Sensor synchronization protocol

Agency Listings



MEA
approved
452-05-E



SpectrAlert® Advance Specifications ARCHITECTURAL / ENGINEERING SPECIFICATIONS

GENERAL

SpectrAlert Advance strobes and horn strobes shall mount to a standard 4" x 4" x 1.5" back box, 4-inch octagon back box or double-gang back box. Two-wire products shall also mount to a single-gang 2" x 4" x 1 7/8" (5.08 x 10.16 x 4.76 cm) back box. SpectrAlert Advance speaker strobes shall mount to a 4 x 4 x 2 1/8-inch (10.16 x 10.16 x 5.40 cm) back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring and amplifier wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync•Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync•Circuit Module, 12-volt-rated notification appliance circuit outputs shall operate between 9 and 17.5 volts; 24-volt rated notification appliance circuit outputs shall operate between 17 and 33 volts. Indoor SpectrAlert Advance products shall operate between 32°F and 120°F (0°C and 49°C) from a regulated DC or full-wave rectified unfiltered power supply. Strobes, horn strobes and speaker strobes shall have field-selectable candela settings, including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177 and 185.

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STROBE

The strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 (clear lens strobes) and shall be approved for fire protective service or shall be approved for fire protective service as listed in ANSI/UL 1638 (amber lens strobes). The strobe shall be wired as a primary signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

HORN STROBE COMBINATION

The horn strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and UL 464 and shall be approved for fire protective service. The horn strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The horn shall have three audibility options and an option to switch between a temporal three-pattern and a non-temporal (continuous) pattern. These options shall be set by a multiple position switch. The horn and horn strobe models shall operate on a coded or non-coded power supply.

SPEAKER STROBE COMBINATION

The speaker strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1480 and UL 1971 and be approved for fire protective signaling systems. Speaker shall be capable of operating at 25.0 or 70.7 nominal Vrms selected via rotary switch, and shall have a frequency range of 400 to 4000 Hz. Speaker shall have power taps that are selected by rotary switch. The strobe shall comply with the NFPA 72 requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

OUTDOOR PRODUCTS

SpectrAlert Advance outdoor strobes, horn strobes and speaker strobes shall be listed for outdoor use by UL and shall operate between -40°F and 151°F (-40°C and 66°C). The products shall be listed for use with a System Sensor outdoor/weatherproof back box with ½ and ¾ " conduit entries.

SYNCHRONIZATION MODULE

The module shall be a System Sensor Sync•Circuit model MDL3R or MDL3W listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1 Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn strobe models over a single pair of wires. The module shall mount to a 4 11/16 x 4 11/16 x 2 1/8-inch (11.90 x 11.90 x 5.40 cm) back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining Two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

COLOR LENS STROBE ATTACHMENT

The System Sensor SpectrAlert Advance color lens attachments shall be approved for fire protective service as listed in UL 1638. The lens attachments shall only be used with (plain non-fire-printed) System Sensor strobe devices. They shall mount to any wall or ceiling strobe and be rated from -35°F to 151°F (-37°C to 66°C).

Specifications

Physical

| | |
|---------------------------------|--|
| Standard Operating Temperature: | 32°F to 120°F (0°C to 49°C) |
| K Series Operating Temperature: | -40°F to 151°F (-40°C to 66°C) |
| Humidity Range: | 10 to 93% non-condensing (indoor models) |

Dimensions:

| | |
|---|--------------------------|
| Wall-Mount Strobe and Horn Strobe (including lens): | 5.6" L x 4.7" W x 2.5" D |
| SPS Speaker Strobe (including lens and speaker): | 6.0" L x 5.0" W x 4.7" D |
| Ceiling-Mount Strobe (including lens): | 6.8" diameter x 2.5" D |

Electrical

| | |
|---|---|
| Nominal Voltage (strobes and horn strobes): | Regulated 12 DC/FWR or regulated 24 DC/FWR |
| Nominal Voltage (speakers): | 25 V or 70.7 V (nominal) |
| Maximum Supervisory Voltage (speakers): | 50 VDC |
| Operating Voltage Range: | 8 to 17.5 V (12 V nominal) or 17 to 33 V (24 V nominal) |
| Strobe Flash Rate: | 1 flash per second |
| Speaker Frequency Range: | 400 to 4000 Hz |
| Speaker Power: | ¼, ½, 1, 2 watts |

SPEAKER SOUND OUTPUT

| UL Reverberant (dBA @ 10 ft) | 2W | 1W | ½W | ¼W |
|------------------------------|----|----|----|----|
| Wall-Mount SPS Series | 85 | 82 | 79 | 76 |
| Wall-Mount SPV Series | 90 | 87 | 84 | 81 |
| Ceiling-Mount SPC Series | 86 | 83 | 80 | 77 |
| Ceiling-Mount SPCV Series | 90 | 87 | 84 | 81 |

UL Current Draw Data

| UL Max. Strobe Current Draw (mA RMS) | | | | | |
|--------------------------------------|---------|--------------|-----|-------------|-----|
| | Candela | 8-17.5 Volts | | 16-33 Volts | |
| | | DC | FWR | DC | FWR |
| Standard Candela Range | 15* | 123 | 128 | 66 | 71 |
| | 15/75* | 142 | 148 | 77 | 81 |
| | 30* | NA | NA | 94 | 96 |
| | 75* | NA | NA | 158 | 153 |
| | 95* | NA | NA | 181 | 176 |
| | 110 | NA | NA | 202 | 195 |
| | 115 | NA | NA | 210 | 205 |
| High Candela Range | 135 | NA | NA | 228 | 207 |
| | 150 | NA | NA | 246 | 220 |
| | 177 | NA | NA | 281 | 251 |
| | 185 | NA | NA | 286 | 258 |

Candela Derating/Outdoor Devices Strobe Output (cd)

| Listed Candela | Candela rating at -40°F (-40°C) |
|----------------|---------------------------------|
| 15 | Do not use below 32° F (0°C) |
| 15/75 | |
| 30 | |
| 75 | 44 |
| 95 | 70 |
| 110 | 110 |
| 115 | 115 |
| 135 | 135 |
| 150 | 150 |
| 177 | 177 |
| 185 | 185 |

NOTE: For K series product used at low temperatures, listed candela ratings must be reduced in accordance with this table

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, Standard Candela Range (15-115cd)

| | 8-17.5 Volts | | 16-33 Volts | | 30 | 75 | 95 | 110 | 115 |
|---------------------|--------------|-------|-------------|-------|-----|-----|-----|-----|-----|
| | 15 | 15/75 | 15 | 15/75 | | | | | |
| DC Input | | | | | | | | | |
| Temporal High | 137 | 147 | 79 | 90 | 107 | 176 | 194 | 212 | 218 |
| Temporal Medium | 132 | 144 | 69 | 80 | 97 | 157 | 182 | 201 | 210 |
| Temporal Low | 132 | 143 | 66 | 77 | 93 | 154 | 179 | 198 | 207 |
| Non-Temporal High | 141 | 152 | 91 | 100 | 116 | 176 | 201 | 221 | 229 |
| Non-Temporal Medium | 133 | 145 | 75 | 85 | 102 | 163 | 187 | 207 | 216 |
| Non-Temporal Low | 131 | 144 | 68 | 79 | 96 | 156 | 182 | 201 | 210 |
| FWR Input | | | | | | | | | |
| Temporal High | 136 | 155 | 88 | 97 | 112 | 168 | 190 | 210 | 218 |
| Temporal Medium | 129 | 152 | 78 | 88 | 103 | 160 | 184 | 202 | 206 |
| Temporal Low | 129 | 151 | 76 | 86 | 101 | 160 | 184 | 194 | 201 |
| Non-Temporal High | 142 | 161 | 103 | 112 | 126 | 181 | 203 | 221 | 229 |
| Non-Temporal Medium | 134 | 155 | 85 | 95 | 95 | 166 | 189 | 208 | 216 |
| Non-Temporal Low | 132 | 154 | 80 | 90 | 90 | 161 | 184 | 202 | 211 |

UL Max Current Draw (mA RMS), 2-Wire Horn Strobe, High Candela Range (135-185 cd)

| | 16-33 Volts | | | |
|---------------------|-------------|-----|-----|-----|
| | 135 | 150 | 177 | 185 |
| DC Input | | | | |
| Temporal High | 245 | 259 | 290 | 297 |
| Temporal Medium | 235 | 253 | 288 | 297 |
| Temporal Low | 232 | 251 | 282 | 292 |
| Non-Temporal High | 255 | 270 | 303 | 309 |
| Non-Temporal Medium | 242 | 259 | 293 | 299 |
| Non-Temporal Low | 238 | 254 | 291 | 295 |

| | 16-33 Volts | | | |
|---------------------|-------------|-----|-----|-----|
| | 135 | 150 | 177 | 185 |
| FWR Input | | | | |
| Temporal High | 215 | 231 | 258 | 265 |
| Temporal Medium | 209 | 224 | 250 | 258 |
| Temporal Low | 207 | 221 | 248 | 256 |
| Non-Temporal High | 233 | 248 | 275 | 281 |
| Non-Temporal Medium | 219 | 232 | 262 | 267 |
| Non-Temporal Low | 214 | 229 | 256 | 262 |

Horn Tones and Sound Output Data

| Switch Position | Sound Pattern | dB | 8-17.5 Volts | | 16-33 Volts | | Reverberant | | Anechoic | |
|-----------------|---------------|--------|--------------|-----|-------------|-----|-------------|-----|----------|-----|
| | | | DC | FWR | DC | FWR | DC | FWR | DC | FWR |
| 1 | Temporal | High | 78 | 78 | 84 | 84 | 88 | 88 | 99 | 98 |
| 2 | Temporal | Medium | 74 | 74 | 80 | 80 | 86 | 86 | 96 | 96 |
| 3 | Temporal | Low | 71 | 73 | 76 | 76 | 83 | 80 | 94 | 89 |
| 4 | Non-Temporal | High | 82 | 82 | 88 | 88 | 93 | 92 | 100 | 100 |
| 5 | Non-Temporal | Medium | 78 | 78 | 85 | 85 | 90 | 90 | 98 | 98 |
| 6 | Non-Temporal | Low | 75 | 75 | 81 | 81 | 88 | 84 | 96 | 92 |
| 7† | Coded | High | 82 | 82 | 88 | 88 | 93 | 92 | 101 | 101 |
| 8† | Coded | Medium | 78 | 78 | 85 | 85 | 90 | 90 | 97 | 98 |
| 9† | Coded | Low | 75 | 75 | 81 | 81 | 88 | 85 | 96 | 92 |

†Settings 7,8,and 9 are not available on 2-wire horn strobe.

Ordering Information

Alert Devices

SW-ALERT: Strobe, Standard cd, White, Amber Lens

SWH-ALERT: Strobe, High cd, White, Amber Lens

SW-CLR-ALERT: Strobe, Standard cd, White, Clear Lens

SCW-CLR-ALERT: Strobe, Standard cd, White, Clear Lens

SPSW-ALERT: Speaker Strobe, Standard cd, White, Amber Lens

SPSCW-CLR-ALERT: Speaker Strobe, Standard cd, White, Clear Lens

SPSW-CLR-ALERT: Speaker Strobe, Standard cd, White, Clear Lens

PLAIN WALL STROBES

SR-P: Strobe, Standard cd, Red, Clear Lens

SRH-P: Strobe, High cd, Red, Clear Lens

SW-P: Strobe, Standard cd, White, Clear Lens

SWH-P: Strobe, High cd, White, Clear Lens

SRK-P: Strobe, Standard cd, Red, Clear Lens, Outdoor

SRHK-P: Strobe, High cd, Red, Clear Lens, Outdoor

SWK-P: Strobe, Standard cd, White, Clear Lens, Outdoor

SWHK-P: Strobe, High cd, White, Clear Lens, Outdoor

PLAIN CEILING STROBES

SCW-P: Strobe, Standard cd, White, Clear Lens

PLAIN WALL HORN STROBES

P2R-P: Horn Strobe, Standard cd, Red, Clear Lens

P2W-P: Horn Strobe, Standard cd, White, Clear Lens

P2WH-P: Horn Strobe, High cd, White, Clear Lens

P2RK-P: Horn Strobe, Standard cd, Red, Clear Lens, Outdoor

P2RHK-P: Horn Strobe, High cd, Red, Clear Lens, Outdoor

P2WK-P: Horn Strobe, Standard cd, White, Clear Lens,

Outdoor

P2WHK-P: Horn Strobe, High cd, White, Clear Lens, Outdoor

PLAIN CEILING HORN STROBE

PC2R-P: Horn Strobe, Standard cd, Red, Clear Lens

PC2W-P: Horn Strobe, Standard cd, White, Clear Lens

PC2WH-P: Horn Strobe, High cd, White, Clear Lens

PLAIN WALL SPEAKER STROBE

SPSW-P: Speaker Strobe, Standard cd, White, Clear Lens

SPSR-P: Speaker Strobe, Standard cd, Red, Clear Lens

SPSWH-P: Speaker Strobe, High cd, White, Clear Lens

SPSRH-P: Speaker Strobe, High cd, Red, Clear Lens

SPSWV-P: Speaker Strobe, Standard cd, White, High

Volume, Clear Lens

SPSRV-P: Speaker Strobe, Standard cd, Red, High Volume, Clear Lens

SPSWK-P: Speaker Strobe, Standard cd, White, Clear Lens, Outdoor

SPSRK-P: Speaker Strobe, Standard cd, Red, Clear Lens,

Outdoor

PLAIN CEILING SPEAKER STROBE

SPSCW-P: Speaker Strobe, Standard cd, White, Clear Lens

SPSCWH-P: Speaker Strobe, High cd, White, Clear Lens

SPSCWV-P: Speaker Strobe, White, High Volume, Clear

Lens

SPSCWVH-P: Speaker Strobe, White, High cd, High Volume, Clear Lens

NOTE: All -P models have a plain housing (no "FIRE" marking on cover). All outdoor units with a "K" designation in the part number include a weatherproof back box. All "ALERT" models are printed as such.



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