

THE *SA-360* DEFENDER

from

CARSON
SIRENS



“Affordable Console Mount Siren”

The **SA-360 DEFENDER** siren combines simple operation, reliable performance, and rugged durability all in an affordable package. The sleek and tough **DEFENDER** is engineered to meet the application needs of volunteer firefighters, police, and security markets. Easy, flexible installation and customization options make this siren a relatively simple project even for the most inexperienced installer.

The **SA-360 DEFENDER** has several features not usually included on other sirens in it's class. They include many of the following selections:

- **Output Diagnostics Indicator:** Sensors at the speaker lead wire connection on the printed circuit board measure when the siren is creating an output to the speaker and indicates the status on the face using an LED light. This provides the service person with the ability to determine if the problem is internal with the siren or external with the wiring and speaker should the system fail to produce a warning signal.
- **Enable or Instant On Control:** Provide power to the siren through the Enable line connected to an external switch like the vehicle's ignition so that the Auxiliary Input feature may be operational. For a simpler installation, leave the Enable and Auxiliary Input leads unconnected and operate the unit as an Instant On siren.
- **DIP Switch Programmable:** Flexible DIP Switch programming allows the installer to sample different settings before selecting desired functions. Options include disabling Phaser and Air Horn to be California Title 13 compatible, replacing Phaser with Two-Tone/HiLo, selecting Phaser or Horn Ring Cycler 2 operation through the auxiliary input, and setting the auxiliary input polarity. The DIP switch options also allow all of the siren tones except Air Horn to be disabled to create an Air Horn Only siren.
- **Horn Ring Cycler 2:** Allow the operator the capability to run the siren tones from the vehicle horn ring or other external switching for hands free tone selection during pursuit or rescue situations.
- **Compact Extruded Cover with Channel Mounting:** Sleek, stylish, 2" tall extruded cover offers greater heat dissipation and the mounting channels offer greater versatility in mounting depth.

The **SA-360 DEFENDER** always answers the call.

SA-360 DEFENDER



Specifications

| | |
|--------------------------|--|
| Siren | |
| Input Voltage | 9 - 16 VDC (negative ground) |
| Input Current | 8 Amps @ 14 VDC |
| Standby Current | Less than 75 ma |
| Output Power | 105W RMS Max (@ 15 VDC - single 100W speaker) |
| Siren Frequency | 700Hz - 1500Hz (Two-Tone & Air Horn = 435 & 585Hz) |
| Tones/Cycle Rates | Horn = 109 CPS, Wail = 13 CPM, Yelp = 190 CPM, Phaser = 15 CPS, Two-Tone = 60 CPM |
| High Voltage Protection | 16 - 18 VDC output ceases, resumes at normal level |
| Short Circuit Current | 50 Amps Min. from supply circuit |
| Operation Temperature | -15F to 140F |
| Controls | |
| | 3 Position rocker switch for siren tone selection, 3 position momentary rocker switch for Manual/Phaser and Horn override, auxiliary input for +/- Horn, Phaser or HRC2 operation, and 8 position DIP switch option selector |
| Siren Connections | |
| | 6 Lead Wires: positive with in-line fuse, negative, 2 speaker, auxiliary input, and remote enable input |
| General | |
| Size | 6" Wide, 2" High, 6" Deep |
| Shipping Weight | 3 Lbs |
| Ratings Met | Class A Sound Level, California Title 13 |

Features

- Compact 100 watt amplifier
- Three position rocker switch for tone selection with positions for Wail and Yelp
- Three position momentary rocker switch for Manual/Phaser and Air Horn override
- Output indicator light on the face for diagnostics
- Horn Ring Cyclor 2 (HRC2) for hands free siren control for pursuit and rescue situations
- Externally Exposed In-Line fuse to protect the siren
- Flexible DIP switch programmable options
- Enable Input or Instant On option to power up the siren
- Six lead wire connections
- No-hassle 5-year limited warranty

| | SA-360 DEFENDER | Federal Signal MS4000 | Whelen Alpha 12S | Code 3 Compact 3900 | Signal Vehicle Products SS650 | Able 2/Sho-Me 30.3106/9 | Able 2/Sho-Me 30.3104 |
|---|----------------------------|--------------------------|---------------------|------------------------|-------------------------------------|----------------------------|--------------------------|
| Flexible DIP Switch Programmability | Yes | | Yes | | | | |
| Auxiliary Input & Horn Ring Capabilities | Yes | | Yes | | | | |
| 6 or More Different Siren Tones Available | Yes | | Yes | | Yes | | |
| Fused Power Input | Yes | Yes | Yes | | | | |
| Speaker Diagnostics | Yes | | | | | | |
| Compact 2" or Less in Height | Yes | Yes | | Yes | | Yes | Yes |
| 5-Year Warranty | Yes | | | | | | |

WARNING   **Sound Hazard** - Sound level from siren speaker (>120dBA @ 10 feet) may cause hearing damage. Do not operate siren without adequate hearing protection for you and anyone in immediate vicinity. (Ref. OSHA 1910.95 for occupational noise exposure guidelines)

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