



▶ PA640 | Siren

FEATURES

- Full-featured electronic siren with light control, PA and Air Horn.
- 100-watt output and 80-amp total switching capacity.
- Advanced crystal controlled microprocessor technology.
- Meets Class A and SAE J1849 sound output requirements.
- Internally programmable tones, switch functions and relay outputs.
- Reversed polarity and “dynamic” short circuit protection.
- Horn Ring Transfer (HRT) and two built-in flashers included.
- Three-year warranty.

APPROVALS

- SAE J1849/ July '02 compliant
- CCR (CAC) Title 13 Class A

Experience Counts

Years of design and manufacturing experience are incorporated into the PA640 making it the most desired siren. Advanced electronics are built into this affordable and compact siren package. PA640 sirens provide 100-watt output and meet Class A and SAE J1849 requirements for sound when paired with any Federal Signal high output speaker.

Built to last

This compact siren (6.8"W x 3"H x 7.75"D) is packed with standard features, built-in versatility and product reliability that simply can't be matched by similar competitive products. Nine on-board relays are used to deliver 80 amperes of total switching capacity and can control primary, secondary, take down, alley, and auxiliary lighting circuits. The PA640 siren has two built-in flasher circuits available, provides advanced short circuit protection and allows the installer to easily change switch functions via internal programming.

Fully featured

Wail, Yelp, Priority or Hi-Lo, Manual Peak-and-Hold, and Air Horn, are all standard tones and can be enabled by a heavy-duty five position rotary switch. There are six backlit rubber membrane auxiliary relay push button switches, a user-friendly four position high current slide switch, separate push buttons for Air Horn and Manual activation, and a rotary PA/Volume control knob – all smartly located on the face-plate.

Park-Siren Deactivation is built into the PA640 PC board. It is automatically activated once the vehicle transmission is shifted into Park. The Horn Ring Transfer (HRT) function allows siren and light step-through control and delivers effective traffic management, using the steering wheel horn ring.

Complete package

Every siren comes with its own mounting bracket, hard-wired microphone and is electronically short circuit and reverse polarity protected. The PA640 can operate from any 12-volt negative ground electrical system and be powered through a Federal Signal Power Distribution Center or directly from the vehicle's battery.



Versatile

Unmatched versatility is achieved through internal programming built into the PA640 siren. Any of the six auxiliary push buttons can be changed from a standard on/off switch into a momentary, flasher, or eight second timer.

In addition, auxiliary relays, standard tones and even HRT functions can be programmed to operate off of any slide switch position desired.

Reliable

Advanced electronic technology that features the use of crystal-controlled microprocessors dramatically enhances the reliability of the PA640 siren. This type of microprocessor continuously monitors current flow between the output transistors and the speaker. This "dynamic" style of short circuit protection between the output transistors and the amplifier delivers a quicker, more effective way to protect your siren warning system.

HOW TO ORDER

Specify the model

640000 Siren, 100-watt, light control, 80-amp switch capacity, internally programmable, standard tones and HRT (Horn Ring Transfer)

Selector Switch Functions

- RADIO Incoming radio messages are amplified by the siren and rebroadcast over the outside speaker
- MANUAL Allows siren operation via the Air Horn or Manual push button switches or through the vehicles horn ring if the HRT function is enabled
- WAIL Produces continuous "wailing" sound
- YELP Produces a continuous and rapid "warbled" tone
- PRIORITY Produces a continuous and extremely rapid "warbled" tone

Vehicle Horn Ring Switch

Horn Ring Transfer (HRT)

(Horn Ring and siren tones are factory set to be dependent on the slide switch position)

Slide switch positions Off 1 and 2. HRT is not transferred (Horn Ring operates the vehicle horn).

Slide Switch position 3 HRT is transferred and will scroll through tones starting with tone chosen on selector switch.

SPECIFICATIONS

Specifications

Input Voltage	11-16 VDC
Standby Current	0mA (ignition off) 150mA (ignition on)
Operating Current	9.25A @ 13.6V with 11-ohm load, amplifier in wail
Operating Temperature	-30° C to +65° C
Voltage Output (approx.)	64V peak-to-peak
Total Current Rating for Relays	80A Combined Total – all relays
Slide Switch Outputs	Mode 1 (30A) Mode 2 (30A) Mode 3 (30A), (40A combined total)
Push button Switch Outputs	20A each

Physical Specifications

Height	3.0 in (7.6 cm)
Depth	7.75 in (19.7 cm)
Width	6.8 in (17.3 cm)

Ship Weight

6 lbs (2.7 kg)



Warning: Sirens and Speakers may produce LOUD sounds necessary to request the right-of-way. Sirens and Speakers may cause hearing damage. Wear hearing protection.

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