

WPA Series Sirens & Controls

WATER-RESISTANT 100 WATT ELECTRONIC SIRENS WITH PA



WPA Series sirens and control heads are built water-resistant for rugged use and environmental exposures typical of motorcycle and marine applications.

FEATURES

- Four tone siren wail, yelp, piercer plus public address & radio repeat.
- PA override in all functions.
- Manual override.
- Emergency light switches.
- 100 watt, 12 VDC, remote amplifier.
- Compact, fully encapsulated control heads feature sealed water-resistant toggle & rotary switches, and PA volume control.
- Hands-Free capability. Cycle through three siren tones using the horn button, manual control or auxiliary switch.
- Flexibility; WPA remote amplifier works with WPA1, WPA2, and WPA3BM control heads (sold separately) or customer supplied switching.
- WPA112 and WS321 have weathertight extruded aluminum amplifier housings for use in rugged outdoor environments.
- Easy to install with pre-wired waterproof connector and 8" wiring pigtail. Water-resistant in-line fuse/holder provided.

- Three position, center-off, toggle switch on WPA1 & WPA2 enables the control for siren only functions or combined siren and light operation.
- Designed for motorcycle or marine applications.
- 24 month factory direct warranty.
- Removable noise cancelling microphone included.

MODELS

AMPLIFIERS

WPA112: 100 watt remote amplifier, for a single 100 watt speaker.

WS321: Harley-Davidson® police package 100 watt siren for single 100 watt speaker, includes Harley-Davidson mating harness.

CONTROL HEADS

WPA1: Control head with three position toggle switch enables control for siren only functions or combined light and siren operation. Includes handlebar mounting bracket, 7-1/2' cable and connectors.

WPA2: Full function control head only, weather resistant for marine flush/surface mount applications, with optional flush mounting bracket, 20' cable and connectors.

WPA3BM: Full function control head with waterproof switches, microphone jack and bail mount. Includes removable microphone and 20' cable. Suitable for marine applications.

OPTIONS

WSMIC321: Microphone for WS321.

WS321B9: New WS321 mounting bracket for 2008-2009 Harley-Davidson Road King and Electra-Glide police motorcycles.

BETA2BKT: Flush/surface mounting bracket for WPA1 and WPA2 only.



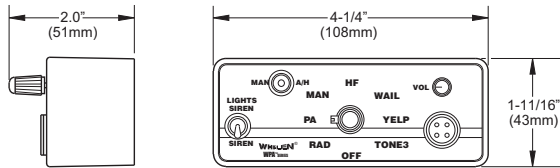
Whelen products are proudly designed and manufactured in the U.S.A.

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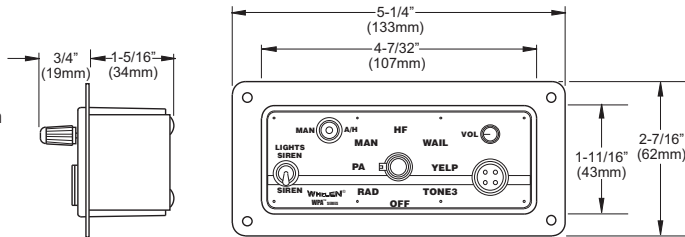
WHELEN®
Engineers for the Emergency Warning Industry

WPA SERIES DIMENSIONS

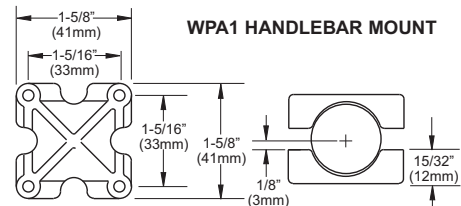
WPA1



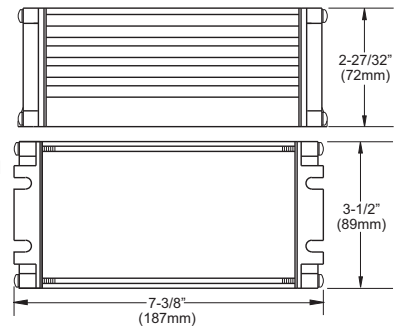
WPA2 with Removable Flush Mount Bracket



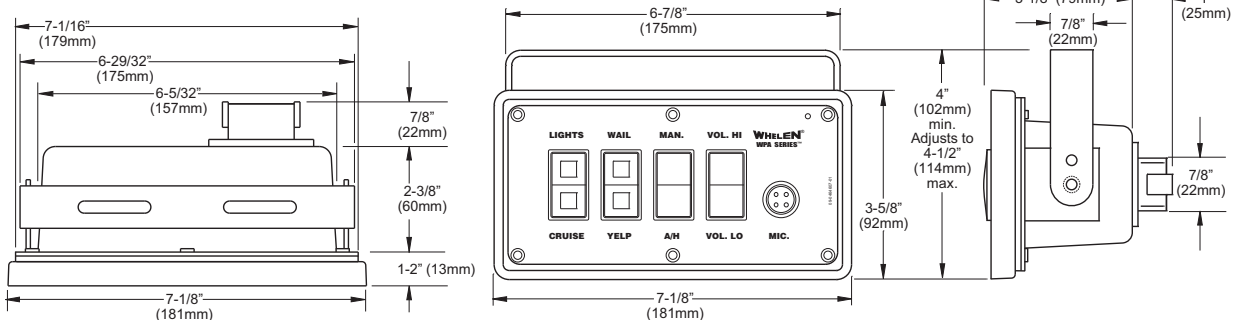
WPA1 HANDLEBAR MOUNT



WPA112 & WS321



WPA3BM with Flush Mount



WPA AMPLIFIER & CONTROL HEAD SPECIFICATIONS

Remote Amplifier	Input Voltage	Input Current: Off / Standby / Siren	Output Voltage	Speaker Impedance	Output Power @15VDC	Control Voltage / Current	Horn Ring Control Voltage / Current	Output Short Protection	Input Fuse (Customer Supplied) / Mounting	Storage / Operating Temperature	Operating Humidity	Connector	Weight
WPA112	12.8 VDC +/-20%	0 mA / 10 mA (typ) / 8 Amps (max.)	34V RMS (Max.)	(1) 11 ohm	105 Watts (Max.)	Input Voltage / 125mA (typ.)	Input Voltage 12.8VDC +/-20% or ground / 15mA (typ.)	500 mA auto reset	10 amps auto fuse / spade type, covered in-line connector	-40° C. to +70° C. / -30° C. to +60° C.	95% non condensing	1-15 pin AMP with 8" wiring pigtail	2.9 lbs. (1.32kg)
WS321	12.5 VDC +/-20%	0 mA / — / 8 Amps (max.)				—		—			99% non condensing		
Control Heads	Input Voltage	Input Current (OFF)	Input Current (Max.)	Output Voltage	Output Current	Operating Temp	Operating Humidity	Operating Short Protection	Weight				
WPA1	10 to 32 VDC	0 mA	500mA (Max.)	1.4V Lower than the Input Voltage	500 mA (Max.)	-30° C. to +60° C.	100% Non Condensing	500mA POLY FUSE	1.25 lbs. (.5kg)				
WPA2													
WPA3BM	10 to 16 VDC												

SIREN TONES

Tone Frequency Sweep Rate
 Wail 500Hz - 1500Hz . . 12 Cycles / Minute
 Yelp 500Hz - 1500Hz . . 180 Cycles / Minute
 Piercer* . . . 500Hz - 1500Hz . . 800 Cycles / Minute
 Hi/Low* . . . 500Hz - 1500Hz . . 50 Cycles / Minute
 Air Horn . . . 500Hz - 1000Hz . . Constant

* Hi/Low tone may be substituted for Piercer tone, if required.
 Specify on ordering.

WPA1 & WPA2 OPERATION

3 siren tone Hands-Free cycle
 Tone 3 is Piercer
 Manual siren stop
 Piercer overrides Yelp
 Wail with Yelp override (toggle)

WPA3BM OPERATION

Pressing **LIGHTS** will engage the lights
 Pressing **AUX** will engage the auxiliary function
 Pressing **WAIL** will activate the siren WAIL tone
 Pressing **YELP** will activate the siren YELP tone
 Pressing **OVERRIDE** will change the WAIL tone to YELP or change the YELP tone to PIERCER
 Pressing **A/H** will activate your air horn.
 Pressing **MICROPHONE VOLUME** volume can be adjusted to High, Medium or Low volume.
 This switch will only function if a siren tone is activated.



WPA1 with handlebar mount



WPA1 installed in a vehicle.



WPA1 installed in a boat.

WHELEN[®]
 ENGINEERING COMPANY, INC.

Some back-up alarms are custom made for Whelen in Canada.

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