OA SERIES

MASS NOTIFICATION WARNING PRODUCTS

Our Mass Notification Products Speak for Themselves

WHELEN

MANUFACTURED IN AMERICA

OA SERIES

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ALL HAZARD HIGH-POWER SIREN SYSTEM

Whelen's OMNI-ALERT™ series provides an economical alternative for powerful omni-directional siren warning without compromising quality.

SYSTEM FEATURES

- **OA1-4** One, two, three, or four omni-directional speaker cells assembled in a vertical column
- Two compartment (Type I) natural finish aluminum cabinet
- Speaker cell includes one, two, three, or four high efficiency 400 watt EZ-Pull™ speaker drivers
- Pole top mounting bracket included
- Battery powered. Minimum of 15 minutes of full power output with batteries of our recommendation
- AC temperature compensated 5 amp battery charger
- 50' (15.24m) cable included
- Local controls or remote controls
- One, two, three or four power amplifiers
- Electronic siren controller
- Tone Generator Timer
- Local control push-buttons
- **SI TEST®**
- Low battery alarm
- Battery tray
- Lightning arrestor
- Six standard warning tones - Wail, Whoop, Alert, Attack, Hi-Lo, Airhorn

SYSTEM OPTIONS

- **Solar option** - 2 each 80 watt panels, with brackets and solar regulator
- **Batteries** - 2 each Whelen approved batteries. Check Whelen's website, www.whelenmassnotification.com, for other recommended batteries
- **VisuAlert™** - Omni-Directional visual warning Model **VALERT*** for OA Series
- **L31H*F4** - Top mount high dome beacon for OA Series, 24 VDC

Type I Electronic Cabinet

Whelen Engineering Company, Inc.

⚠ **WARNING:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

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ACTIVATION CONTROLS

Our VHF and UHF radio narrow-band control packages include the following:

- Radio
- Radio interface
- Tone or digital squelch
- 3-5 dB gain omni-directional antenna with bracket
- 35’ (10.67 m) of RG58 antenna cable
- Polyphaser
- **SI TEST**

Other features are dependent upon one or two-way controls. Whelen equipment can be interfaced with many different types of two-way radio communications products and systems. The following is offered as standard options. Contact factory for special applications.

BOLD BLACK in callout indicates Whelen Model:

ONE-WAY CONTROLS

- **OAUXIN** - Auxilliary board for contact closure activation
- **OD2030LL** - 10 digit DTMF Landline Activation
- **OD203NV** - 10 digit DTMF VHF High-Band Narrow - Band / 138-174 MHz
- **OD230NU** - 10 digit DTMF UHF Narrow-band /450-470 MHz
- **OTT -** Two-tone sequential option

TWO-WAY CONTROLS

- **OAUXCS** - Two-way contact closure activation and status board
- **OC2030LL** - Two-way landline activation
- **OC230NV** - 10 digit DTMF VHF Narrow-Band / 136-174 MHz
- **OC230NU** - 10 digit DTMF UHF Narrow-Band / 450-470 MHz

OPTIONS

- **OPGINT1** - Paging interface to interface Whelen tones with existing paging systems
- **OSTATUS** - Cabinet window LED status indicator
- **OINTRU** - Intrusion alarm (available with two-way only)

OA1

OA2

OA3

OA4

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SPECIFICATIONS

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Component	Height Inches (CM)	Width Inches (CM)	Depth Inches (CM)	Weight Lbs. (kg)	Electronics Cabinet Type 1 Weight	Lbs. (kg)
OA1 Speaker	18.80 (47.75)	33.40 (84.84)	-	119 (53.98)	62 (28.20)	
OA2 Speaker	31.20 (79.24)	33.40 (84.84)	-	168 (76.20)	62 (28.20)	
OA3 Speaker	43.60 (110.74)	33.40 (84.84)	-	217 (98.42)	76 (34.50)	
OA4 Speaker	56.00 (142.24)	33.40 (84.84)	-	266 (120.65)	83 (37.70)	
Electronics Cabinet Type I (Aluminum)	32.50 (82.60)	22.50 (57.20)	10.50 (26.70)	-		
Pole Top Bracket	30.50 (77.47) (with top plate)	12.0 (30.50) x 13.50 (34.30)	See Drawing	71 (32.20)		

Batteries add 90 lbs. (40.82 kg) Pallets, boxes and skids add weight. Check with Whelen if a freight quote is needed.

ELECTRICAL

Component	Battery Charger Input	Battery Charger Output	Batteries	Standby Current	Operating Current	Power Amplifier Output Power
OA1 Speaker	120VAC, 60 Hz, 7A fuse	28VDC, 5A (nominal)	(2) 12V, 60 AH lead calcium (user supplied)	82mA, 24VDC	22A. 24VDC	400 Watts
OA2 Speaker					44A, 24VDC	800 Watts
OA3 Speaker					67A, 24VDC	1200 Watts
OA4 Speaker					89A, 24VDC	1600 Watts

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ACOUSTIC PERFORMANCE

Component	Wattage	Estimated 70dB Range
OA1 Speaker	400	1,400 ft / 425 m
OA2 Speaker	800	2,200 ft / 670 m
OA3 Speaker	1200	2,400 ft / 731 m
OA4 Speaker	1600	2,800 ft / 853 m

ENVIRONMENTAL

Component	Operating Temperature	Storage Temperature	Humidity, Non Condensing
OA1 Speaker	-40°C to +60°C	-65°C to +125°C	0 to 95%
OA2 Speaker			
OA3 Speaker			
OA4 Speaker			

ORDERING INFORMATION

Basic system includes the following:

- **OA1 - OA4** - Speaker Assembly & Electronics Cabinet & Pole Top Bracket

OPTIONS

- **0AUXIN** - Auxiliary boards for contact closure activation
- **OAUXCS** - Auxiliary / status control board for contact closure activation and status
- **OD2030LL / OD230NV / OD230NU** - One-way Narrow-Band radio control
- **OC2030LL / OC230NV / OC230NU** - Two-way Narrow-Band radio control / status monitoring, COMM/STAT™
- **OTT** - Two-tone sequential
- **OSTATUS** - Cabinet window LED status indicator
- **OPGINT1** - Paging interface to interface Whelen tones with existing paging systems
- **OINTRU** - Intrusion alarm
- **OSBC280** - Solar power, 2 x 80W
- **OBATT** - One pair of batteries

OPTIONAL LIGHTING ACCESSORIES

- **VALERT*** - VisuAlert 360° highly effective LED warning accessory
- **L31H*F4** - L31 LED, 24VDC

* Replace symbol in model number with letter indicating LED color desired: A = Amber; B = Blue; C = Clear/White; R = Red

NOTES

[1] 10 digit DTMF Controls • Landline • VHF High-Band 138-174 MHz • UHF/450-470 MHz. Our VHF High and UHF activation control packages include tone squelch, radio, radio interface, 3-5dB gain omni-directional antenna with bracket, 35' (10.67m) of RG58 antenna cable, and polyphaser.

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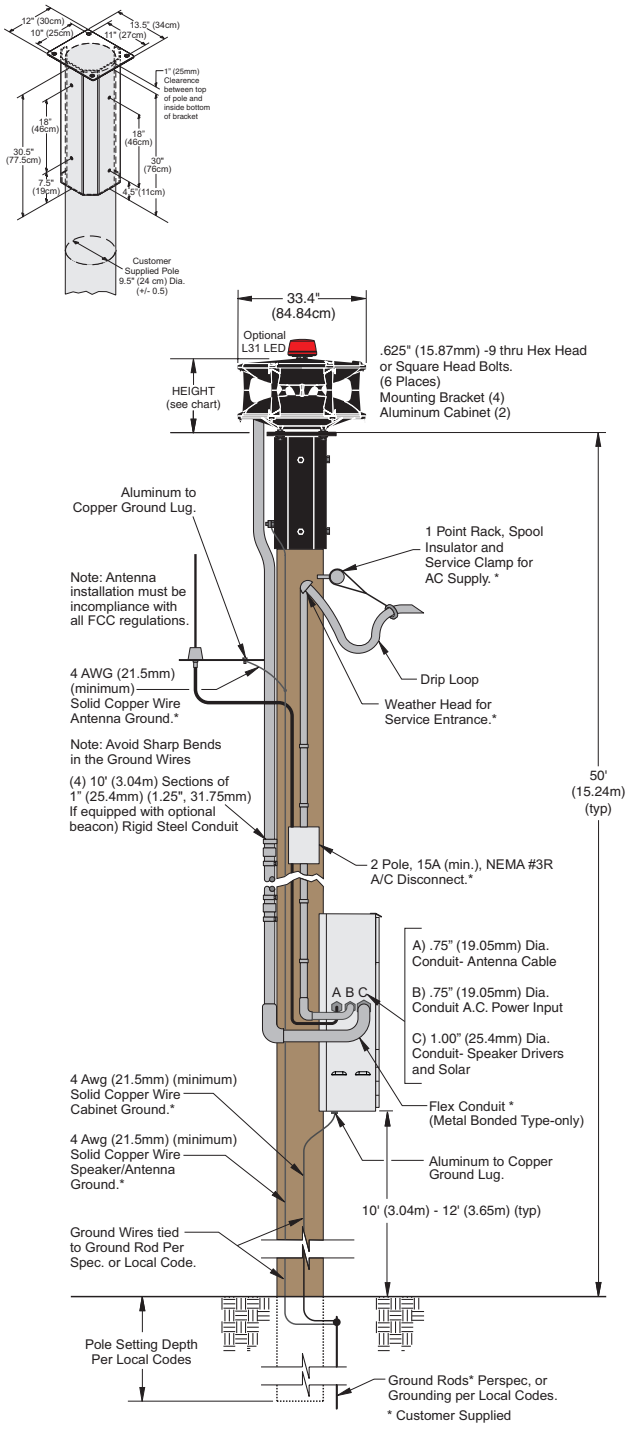
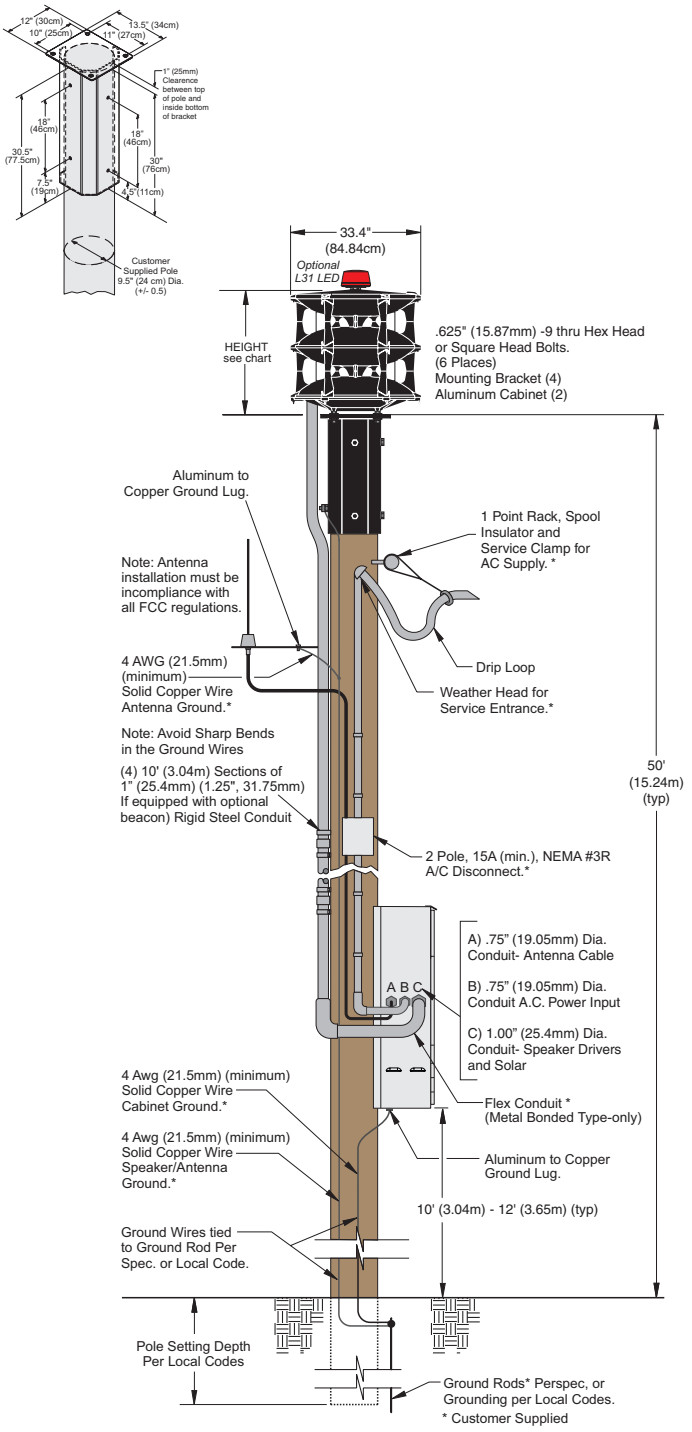
TECH DRAWINGS



OA1



OA2

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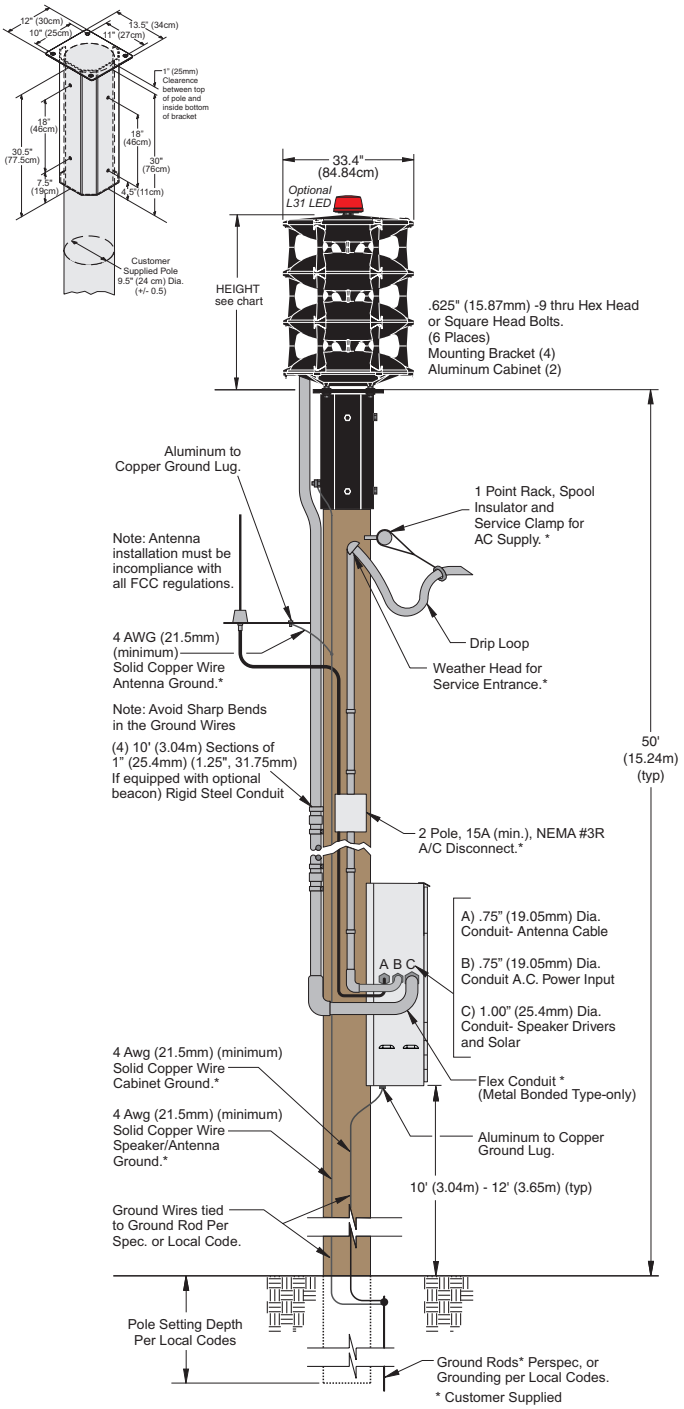
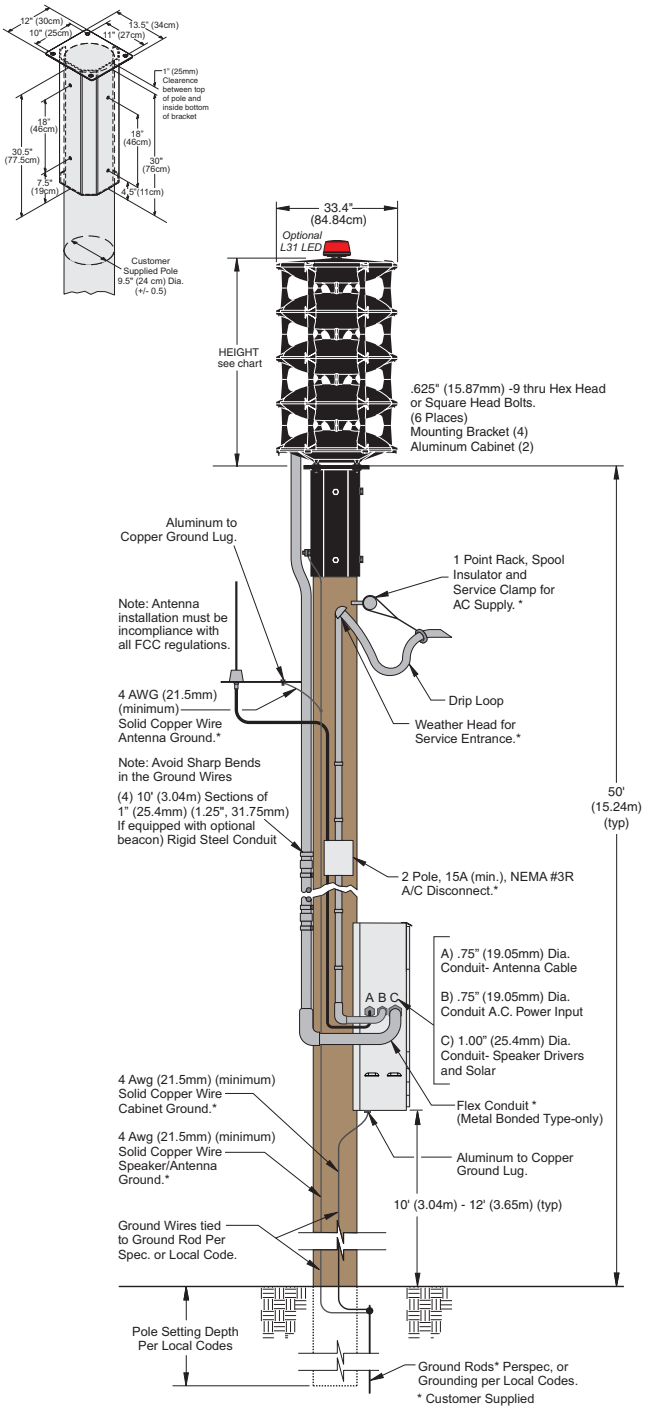


OA3



OA4

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Whelen Engineering Company
(860) 526-9504
www.whelen.com

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Printed in U.S.A.
Code No. MB11694M - 04/23

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