



## Stinger Ringers . . . for industrial ringers, they are the #1 choice

The Stinger Ringer cuts through the noise of any environment with a powerful 110 dBA. Its intense signal is transmitted in all directions and reaches every corner of an industrial location or home.

The Stinger 90, Model 196, operates directly from Central Office power. It has a modular plug that connects right into a standard telephone wall jack. This unit is equipped with a three position volume switch (hi - med - low).

The Stinger 24, Model 198, operates from 24 VDC and a dry set of contacts. It's ideal for use as a common audible or night bell on Key System installations. This unit is equipped with a volume control for continuous increase or decrease of volume.

Both units are housed in rugged, lightweight aluminum, weatherized cases. The terminal strip is protected by a cover making either ringer ideal for indoor or outdoor installations.

### Application

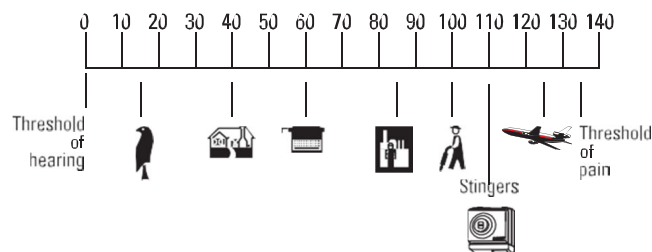
If you work in a noisy or large area where the phones just cannot be heard, the Stinger Ringer is the ideal solution for you. Car lots, lumber yards, warehouses, noisy manufacturing plants, fire halls and farms would benefit from the Stinger Ringer. Or, if you have a hearing impairment, install the Stinger 90 in your home and never miss a call again because you did not hear the phone ring.

The Stinger Ringers have proven themselves to be economical, labor saving and extremely effective in a variety of applications. They have been successfully installed in applications ranging from noisy industrial areas to home use for the hearing impaired.

### Benefits

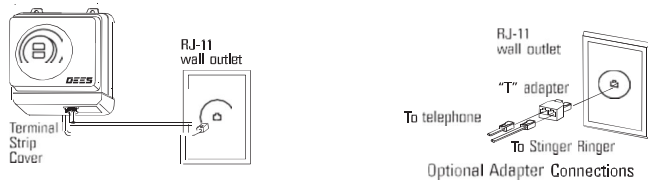
- Output 110 dBA at one meter
- Line powered – Stinger 90 (Model 196)
- 24 VDC powered - Stinger 24 (Model 198)
- Adjustable volume control
- Ideal for indoor and outdoor use
- Housed in a rugged, lightweight aluminum case
- Easy to install

### Noise Level Measure



## Installation

### Stinger 90 (Model 196)



### Stinger 24 (Model 198)



## Ordering Information

Model 196	Stinger 90 Loud Industrial Ringer (Line powered)
Model 198	Stinger 24 Loud Industrial Ringer (24 VDC)
Model 198/PSU	Stinger 24 Loud Industrial Ringer (24 VDC) with Power Supply (Model T193)

## Specifications

	Min	Typical	Max	Unit
<b>Electrical</b>				
Operating Supply Voltage				
Stinger 90	40		135	VAC
Stinger 24		24	30	VDC
Operating Supply Current				
Stinger 90			27	mA (rms)
Stinger 24			110	mA (DC)
Ringer Equivalence				
Stinger 90		2.7		B
Load Number				
Stinger 90		24		
Volume (measured at 1 meter)				
Stinger 90				
High	108	110		dB
Medium		105		dB
Low		100		dB
Stinger 24				
Continuously adjustable to maximum volume		110		dB
<b>Environmental</b>				
Operating Temperature				
Stinger 90	-40		158	°F
			70	°C
Stinger 24	14		158	°F
			70	°C
Humidity (non-condensing)	0		95 %	RH

## Dimensions (LxWxH)

5" x 5" x 2.75" (12.7 x 12.7 x 7 cm)

## Shipping Weight

Model 196  
1.70 lbs. (0.77 kg)

Model 198  
1.60 lbs. (0.72 kg)

## Certification

Stinger 90  
DOC CS03  
CSA C22-2 No. 225-M90  
FCC Part 68  
UL 1459-2

## Approval Number

350 2994 A  
LR 65726  
FCN8E3-19754-RG-N  
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