

# **EWS4 ELECTRONIC WARNING SIGNAL**

# High power multi-mode electronic warning signal





# **Specifications**

Voltage

#### EWS4

Tones : 15 pre-selectable by internal DIP switch

: Provision for external switching - remote control

Volume : Internal adjustment from zero to full power

Output : 117dB at 1m

Rating : Continuously rated

: 24V ac/0.7A, 110V ac/0.2A, 230V ac/0.1A

: 12V dc/1.5A, 24V dc/0.7A

Weight : 24Vdc 1.3kg, all other models 2kg External Speaker : 8 Ohm >15W (Required extra)

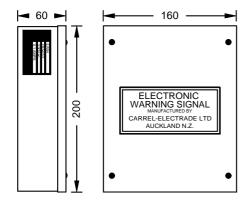
## MPH-5308 Horn Loudspeaker

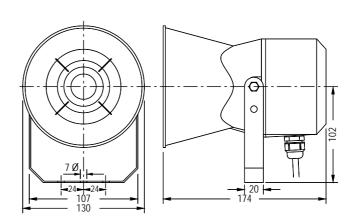
Impedance : 8 Ohm
Rating : 30W rms
Environment : IP66

Frequency Range : 500Hz to 7kHz (-10dB)
Efficiency : SPL (1W/1m) 106dB
Material : High impact ABS UV res

Material : High impact ABS UV resistant Mounting : U type stainless stell bracket

Weight : 1.4kg





## **CARREL-ELECTRADE LTD**



# **EWS4 ELECTRONIC WARNING SIGNAL**



# **Installation and Operating Instructions**

## **Supply Voltage**

Connect supply voltage to terminals marked P N E

## **Loud Speaker**

Connect an 8 Ohm re-entrant horn type loud speaker to terminals marked SPEAKER

N.B. Do not use a speaker or speaker combination presenting an impedance of less than 8 Ohms as damage may result.

#### Control - On/Off

The warning signal can be switched on and off by either of the two following methods.

- (a) making or breaking of the supply voltage.
- (b) Making or breaking of a pair of switch or relay contacts across the terminals marked CONTROL. Contacts open, signal "on", contacts closed, signal "off". (contact rating 100mA/12Vdc)

#### **Volume Control**

Turn clockwise to increase, anti-closewise to reduce.

#### Fuse

The unit is protected by a 1A fuse, do not replace with a higher rating as damage may result.

## **Tone Selection**

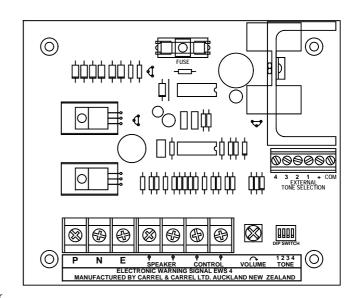
Signal tone selection is made by positioning the DIP switches as shown in the tone selection chart.

#### **External/Remote Tone Selection**

- (1) Place each of the tone DIP switches marked 1 2 3 4 in the down position as shown in the first line of the tone selection chart.
- (2) Select the tone or tones required from the tone selection chart
- (3) Arrange relay or switch connections to the EXTERNAL TONE SELECTION connection block marked 4 3 2 1 + COM so the corresponding DIP switch numbers shown in the up or top position on the TONE SELECTION CHART are switched to COM.
- e.g. an alternating two tone unequal phase ratio requires terminals 4 and 3 to be switched to COM.
- N.B. Wiring between EXTERNAL TONE SELECTION terminal block 4 3 2 1 + COM and the switch or relay should be kept as short as possible, preferably less than 1 metre.

A relay may be powered from the 30Vdc/50mA unregulated auxiliary supply voltage at the + and COM terminals of the connection block.

# **EWS4 Printed Circuit Board Showing Connection Terminals and Tone Switch**



#### **Tone Selection Chart**

Tone Selection	Phase Ratio	Frequency Modulation	Switch
			1234
Fast rising high tone pulses	Unequal	/ / /	1111
Alternating sliding two tone	Unequal	>	1111
Fast pulses high tone	Unequal		1111
Alternating two tone	Unequal		1111
Fast rising low tone pulses	Unequal	/ / /	1111
Rise and fall high/low tone	Unequal	<b>\</b>	1111
Fast pulses low tone	Unequal		1111
Continuous low tone			1111
Slow rising high tone pulses	Equal	/	1111
Alternating sliding two tone	Equal	\	TIII
Slow pulsing high tone	Equal		1111
Alternating two tone	Equal		1111
Slow rising low tone pulses	Equal	//	1111
Rise and fall high/low tone	Equal		1111
Slow pulsing low tone	Equal		1111
Continuous low tone			1111