Edwards® 5530B Series Adaptatone® Multiple Tone Industrial Signal

*PLC Compatible**

Features

- PLC compatible
- Stand-alone. 19 tone capability - No additional tone modules needed
- Four 3 pulse temporal tones
- Weatherproof
- Single Input, Single Output
- Corrosion resistant heat flowed epoxy finish

Description

The Edwards 5530B Adaptatone Signal is a heavy-duty industrial, tone-selectable, stand-alone, signaling device capable of producing volume-controlled, high-decibel tones. It uses a microprocessor circuit to create 19 distinctive tones selected by setting a miniature switch within the unit. See Adaptatone Tone Selection, page 4-64

The electrical inputs activating an Adaptatone Signal are received from field-wired, normally open contacts or from the Cat. No. 5538-4 and/or Cat. No. 5538-4R Adaptatone Signal Actuators. See page 4-40.

Agency Approvals

- UL Listed for indoor and outdoor applications

Specifications

- Heavy duty zinc cast construction
- Output up to 110 dB at 10 ft
- Speaker can be rotated and locked in any horizontal direction
- 24V DC battery backup terminals provided

Installation

The 5530B is designed for either 1/2" (13mm) conduit or surface mounting. See Adaptatone Signaling Installation, pages 4-62 and 4-63.

Applications

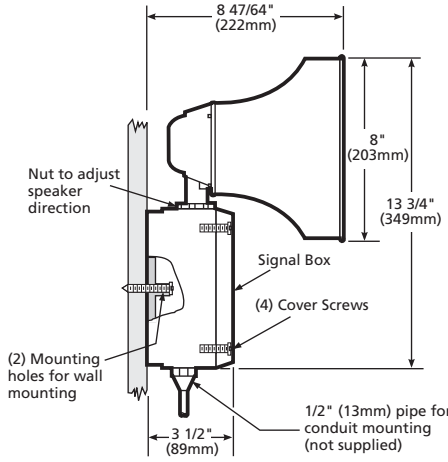
Designed for industrial applications requiring high decibel output and microprocessor reliability. Typical applications include emergency warning systems, plant evacuation and security intrusion alarms, process monitoring, shift start-and-dismissal horns, and paging signals.

*PLC COMPATIBILITY

This device may be operated by PLCs that match the input load requirements of this signal. Be sure to match the input load characteristics of the signal with the output characteristics of the PLC before connecting.

Signal Input Load Characteristics

Cat. No.	Operating voltage Volts/60 Hz	Max. off state leakage current mA	Continuous on current mA	Surge (inrush/duration) Amps/milliseconds
5530B-N5	120V AC	25	260	2.82/4
5530B-AQ	24VDC only	25	650	25/.024



Ordering and Technical Data

Cat. No.	Volts	Audio Output Power (Watts)	Signal Off Standby Current (Amps)	Signal On Operating Current (Amps)
5530B-AQ	24V DC	15	0.06	0.60
	36V DC	15	0.07	0.68
	24V AC 50/60 Hz	15	0.26	1.36
5530B-N5	120V AC 50/60 Hz	15	0.10	0.29
5530B-Y6	120V AC 50/60 Hz	15	0.10	0.29
	240V AC 50/60 Hz	15	0.11	0.23
	125V DC	15	0.05	0.16
	250V DC	15	0.04	0.10

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Adaptatone® Tone Selection and Priority Operation

Programmable Tone Selection

Programming the Adaptatone Signal for the tone or tones selected is accomplished through setting the switches located in the signal base. A convenient tone selection chart is provided in the cover of each unit. In some cases the signaling task will dictate the tones required. For example, if a paging function is to be performed one of the unique percussive tones (Chime1 or Chime 2) may be most suitable. Local regulations or standards may require specific tones such as siren, horn, hi-lo. In some cases varying ambient noise may necessitate on-site evaluation of all available tones to select the most suitable tone. On-site volume control is also available by adjusting the conveniently located volume control in the base.

Priority Tone Operation

For Adaptatone signals that have priority capability, the programmed tones operate on a pyramid-type priority system. The tone programmed on switch 1 overrides the tones programmed on switches 2, 3, and 4. The tone on switch 2 overrides the tones programmed on switches 3 and 4. Likewise, the tone on switch 3 overrides the tone programmed on switch 4. The tone programmed on switch 4 has the lowest priority and cannot override any other programmed tone.

		Standard & Div. 2 Hazardous Location dB Ratings at 10 Ft.*	
Tone	**Description**	**Standard Volume**	**High Volume**
Ding-Dong	Percussive pairs of 700 and 570 Hz tones, each damped to zero	106	109
Warble	575 and 770 Hz alternately, 87 ms each	106	109
Siren	600-1250 Hz up and down sweep in 8 seconds and repeat	110	114
Stutter	Percussive 470 Hz, 83 ms on, 109 ms off	103	106
Slow Whoop	600-1250 Hz upward sweep in 4 seconds and repeat	110	114
Beep	470 Hz, 0.55 seconds on, 0.55 seconds off	103	106
Chime 1	700 Hz percussive repeat at 1 Hz	106	109
Fast Whoop	600-1250 Hz upward sweep in 1 second and repeat	110	114
Hi/Lo	780 to 600 Hz alternately, 0.52 seconds each	106	109
Rapid Siren	600-1250 Hz up and down sweep in 0.25 seconds and repeat	110	114
Yeow	1250-600 Hz downward sweep in 1.6 seconds and repeat	110	114
Horn	470 Hz continuous	103	106
Air Horn	370 Hz continuous	106	109
Dual Tone	450-500 Hz, 0.4 to 0.5 second cycle	103	106
Chime 2	575 Hz percussive repeat at 1 Hz.	106	109
3 Pulse Horn	470 Hz, 3 0.5 second pulses separated by 0.5 seconds followed by a 1.5 second delay and repeat	103	106
3 Pulse Air Horn	370 Hz, 3 0.5 second pulses separated by 0.5 seconds followed by a 1.5 second delay and repeat	106	109
3 Pulse Dual Tone	450-500 Hz, 0.4 to 0.5 second cycle, 3 0.5 second pulses separated by 0.5 seconds followed by a 1.5 second delay and repeat	106	109
3 Pulse Chime 2	575 Hz, 3 0.5 second pulses separated by 0.5 seconds followed by a 1.5 second delay and repeat.	103	106

*Ratings taken in an anechoic chamber with signal volume control set at maximum and measurements made on an "A" weighted scale with peak hold.

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