

# PERTRONIC INDUSTRIES LTD

## DATASHEET

### LASS Series Strobes & Sounder-Strobes



## Overview

The LASS series AA Synchronised Strobes and Sounder-Strobes are loop-powered audible and visual alarm devices that plug in to System Sensor analogue addressable detector bases such as the B501AUS.

Each LASS-series alarm device can be individually activated (addressed) by a fire panel over an analogue addressable loop. In a Pertronic F220 system, the control panel's loop driver board controls the audible and visual signals. Tones and light flashes from all LASS alarm devices connected to a single loop driver can be synchronised, provided that the loop driver is fitted with firmware version 4.08.00 or later. An F220 loop driver can control two analogue addressable loops. So, all LASS devices on a pair of loops can be synchronised.

Two audible alarm tones can be controlled by the fire panel. These tones indicate alarm Stage 1 (Evacuate) and alarm Stage 2 (Alert). The pair of tones may be configured from any one of four optional two-stage tone-sets. The sounder-strobe's visual alarm is internally synchronised with the audible alarm.

LASS series alarm devices are compatible with the optional anti-tamper feature on the B501AUS and compatible detector bases. When activated, the anti-tamper feature inhibits unauthorised removal of the



*Addressable Synchronised  
Strobe and Sounder-Strobe  
Left: LASS-WST-NC  
Right: LASS-BSS-NC  
fitted with Smoke Detector*

alarm device. Note that if an LASS device is used with a B501AP deep base, there will be a 3-4 mm gap between the device and the mounting surface.

The sounder component of the Addressable Synchronised Sounder-Strobes (LASS-WSS-NC, LASS-BSS-NC) is independently certified to the sounder (AAD) standard, AS ISO 7240.3:2014.

## Features

- » Addressable audible and visual alarm devices
- » Suitable for mounting on wall or ceiling
- » Plug in to B501AUS and compatible detector bases
- » Sounder-strobes produce two-stage audible alarm signals with light-flash patterns synchronised to the audible alarms
- » Two volume settings, configurable by DIP switch
- » Four DIP switch configurable audible tone sets including ISO 8201 temporal pattern (T3) evacuation signals
- » Field test mode enabled by DIP Switch
- » DIP switches accessible only when the device is not plugged in to a base
- » All LASS devices on a loop pair can be synchronised in Pertronic F220 systems (Requires loop driver II firmware version 4.08.00 or later)
- » Compatible with detector base anti-tamper feature
- » Rotary address switches for loop address configuration
- » Base Sounder-Strobe (LASS-BSS-NC) colour-matched to 200 Series detectors (Ivory)
- » Sounder component independently tested and SAI Global StandardsMark certified to AS ISO 7240.3:2014
- » Suitable for retrofit to Pertronic F120A systems using existing detector base(s)

## Specification

	LASS-WST-NC	LASS-WSS-NC	LASS-BSS-NC	Note
High Volume	N/A	90 ± 4 dB (A)	92 ± 3 dB (A)	1m, Tone 21 @ 24 V
		92 ± 3 dB (A)	95 ± 3 dB (A)	1m, Tone 13 @ 24 V
		91 ± 5 dB (A)	95 ± 4 dB (A)	1m, Tone 12 @ 24 V
		95 ± 5 dB (A)	94 ± 7 dB (A)	1m, Tone 19 @ 24 V
Low Volume	N/A	86 ± 3 dB (A)	89 ± 3 dB (A)	1m, Tone 21 @ 24 V
		86 ± 4 dB (A)	89 ± 3 dB (A)	1m, Tone 13 @ 24 V
		81 ± 3 dB (A)	85 ± 5 dB (A)	1m, Tone 12 @ 24 V
		84 ± 6 dB (A)	85 ± 5 dB (A)	1m, Tone 19 @ 24 V
Alarm Current	< 8 mA	< 11 mA		High Volume, 24 V dc
		< 8.5 mA		Low Volume, 24 V dc
Weight	156 ± 6 g	176 ± 6 g	196 ± 6 g	
Coverage Volume	W-3-6/O-3-6		C-3-3	
Dimensions	47 x 122 mm		52 x 122 mm	(H x Dia.)
Operating Voltage	15 V dc to 32 V dc			Nominal 24 V dc
Avg. Standby Current	< 400 µA			24 Vdc, no alarm signal
Flash Intensity	> 1 cd			
Operating Temp	- 25 °C to 70 °C			
Humidity	10 % to 95 %			RH, non-condensing
Ingress Protection	IP 33			

## Sound (Tone) Settings

Tone Set	First Stage	Second Stage
0 0	<p>Tone 21 T3 ISO8201 Evacuate (Sweep)</p>	<p>Tone 12 AS2220 Alert</p>
0 1	<p>Tone 13 AS2220 Evacuate</p>	<p>Tone 12 AS2220 Alert</p>
1 0	<p>Tone 12 AS2220 Alert</p>	<p>Tone 13 AS2220 Evacuate</p>
1 1	<p>Tone 19 T3 ISO8201 Evacuate (Intermittent)</p>	<p>Tone 12 AS2220 Alert</p>

## Ordering Information

Product Code	Description
LASS-WSS-NC	Addressable Sounder-Strobe (requires B501AUS Base)
LASS-BSS-NC	Addressable Base Sounder-Strobe (requires B501AUS Base)
LASS-WST-NC	Addressable Strobe (requires B501AUS Base)

The information in this document must not be treated as partial or complete instructions for the design, construction, installation, commissioning, or maintenance of fire detection, fire alarm, or building evacuation systems. Fire and evacuation systems must be designed and installed by properly qualified persons, in accordance with all regulatory requirements.

Unless explicitly stated otherwise, this document provides typical specifications and nominal dimensions. Actual product performance and dimensions may vary.

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