SAS SERIES

INTRODUCTION

Sonitron **A**larms **S**eries are developed for a temperature range of -40°C to +85°C. Small designs and very loud output are the main characterisitcs of this piezo series. Different models are developed for use in applications where dimensions should be small and sound output loud, such as fire alarms, security devices,...etc.

ADVANTAGES & APPLICATIONS

ADVANTAGES:

- Loud siren output with high sound pressure level
- Dust tight, waterproof (IP67)
- Low current consumption
- No magnetic field

APPLICATIONS:

- Car alarm
- Fire alarm
- Motor alarm
- Home security alarm

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SAS-2155 PIEZO SOUNDER

The SAS-2155 is a thin piezo electric siren with high sound pressure, low weight and low current consumption. The sound output is a powerful, clear and less aggressive sweep signal. There are many applications for this siren: all fire alarms, cars and motor vehicles, automation equipment, security devices, etc. The vibrating elements are unique and developed at Sonitron (worldwide patented). This series is made from high quality materials, offers extreme reliability and robustness, and features life time over 2000 hours in continuous use.

SPECIFICATIONS

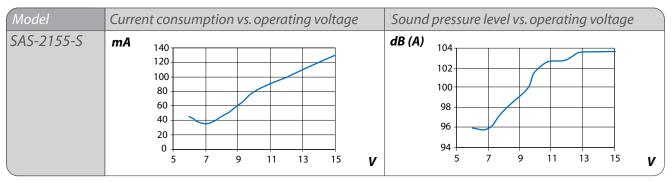
Model	Function	Sound pressure level (dB(A)(±2dB(A)		Operating voltage (Vdc)	Operating*** DCcurrent(mA)
SAS-2155-S	Sweep	102	2000 to 3000**	6-15	100

** Interval frequency is 3Hz (± 2Hz).

*** Operating current @12Vdc

Operating temperature:	-40°C to +85°C
Storage temperature:	-40°C to +85°C
Expected life time:	2000 hours continuous working @12Vdc @21°C @35% RH
Color:	grey, black
Terminals:	pins, fast-on and wire connection
Case material:	Standard ABS plastic (UL rating: 94HB) Akulon plastic on request
Weight:	35g
Mounting method:	Mounting on panels and walls with universal bracket

ELECTRICAL PARAMETERS



Note : All measurements are made in free air @1 meter @21°C @35% RH. For measurement purposes, the alarm was mounted with mounting bracket "MB1" on a wooden panel.

102 dB(A) @ 1 meter



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SAST-2155 PIEZO TRANSDUCER

he SAST-2155 is a transducer version of the SAS-2155-S. The drive electronics are not included on the internal pcb and must be created by the customer to realize a a good functional sound output. The maximum dB(A) level is obtained if the drive

frequency is used between 2kHz and 3kHz. Several signals can be combined or produced in continuous, intermittent, warbler or sweep mode. Square wave signals give extra sound dimensions because of their harmonic content.

The SAST-2155 is available with connections in pins, Fast-ons or wires. The casing is standard in UL94HB ABS plastic but can be obtained in Akulon plastic on request. For Fast and strong mounting on a wall, several mounting brackets are available.

When the maximum voltage peak to peak signal of 40Vpp square wave is respected a life time over 2000 hours can be obtained in contiuous use.

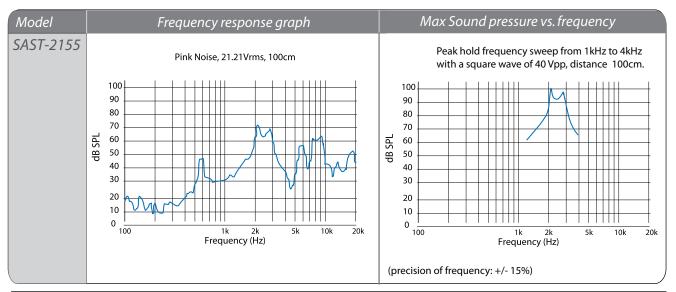
This transducer is the best product for the realization of your personalized alarm or siren driven by customers electronics.

SPECIFICATIONS

Model	SPL * (dB(A)	Frequency Range (Hz)	Capacitance (+/-30%) nF)	Operating voltage (VAC pp)	Weight (g)
SAST-2155	See graph	2000 - 3000	75 nF	0 to 40	35g
Operating to	emperature:	-40°C to +85°C	- 		

operating temperature.	
Storage temperature:	-40°C to +85°C
Expected life time:	2000 hours continuous working
Color:	grey, black
Terminals:	pins, fast-on and wire connection
Case material:	Standard ABS plastic (UL rating: 94HB) Akulon plastic on request
Max. SPL	+/- 100dB(A) @100cm
Mounting method:	Mounting on panels and walls with universal bracket

ELECTRICAL PARAMETERS





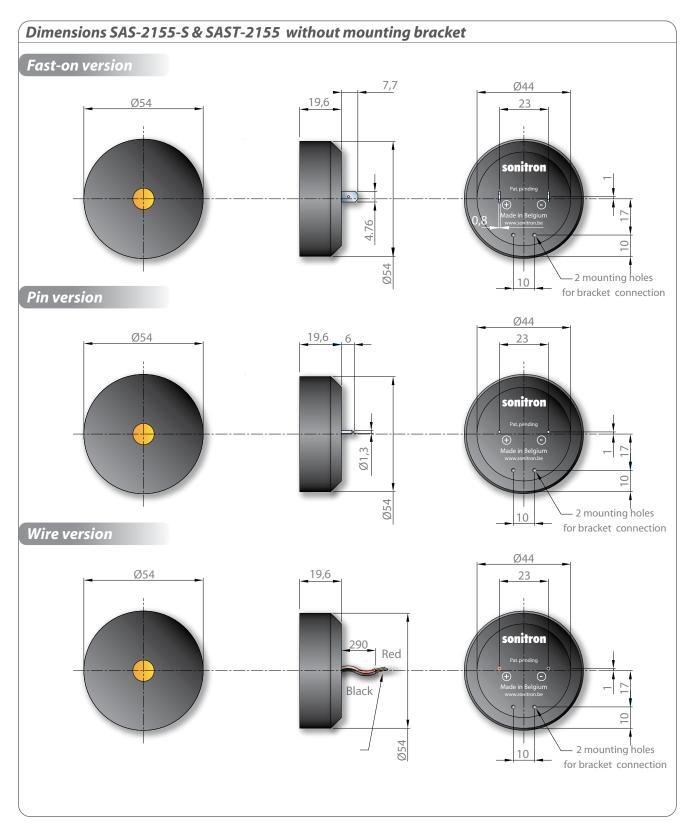
2000 to 3000 Hz





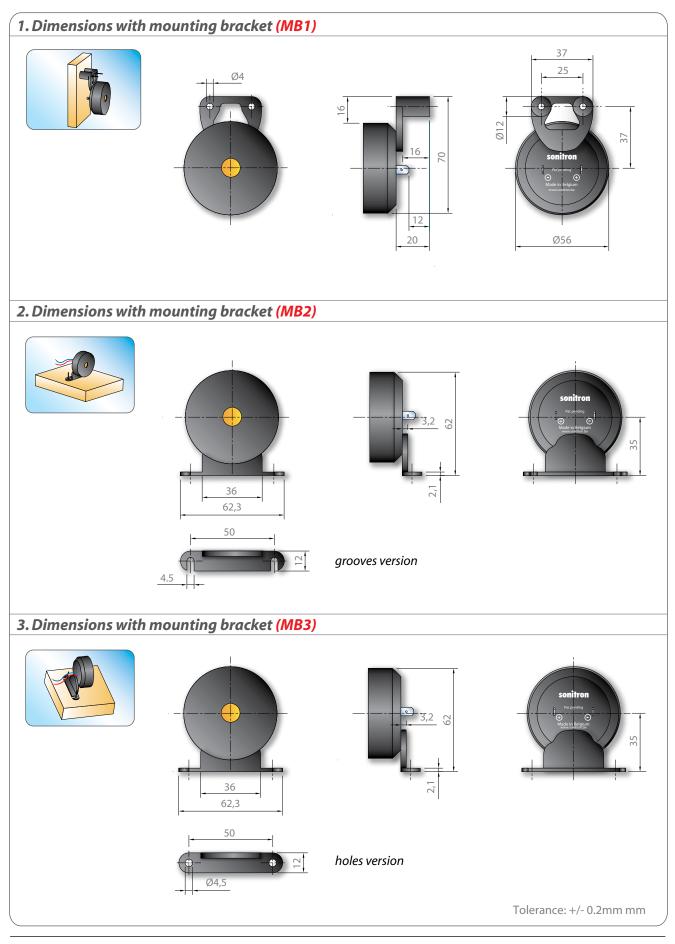


DIMENSIONS SAS SERIES (all dimensions are in mm)





PRODUCT OPTIONS





PRODUCT CODIFICATION

SAS	T - 2155	S	W	MB	1	Ş
			Р		2	
			F		3	
•	•	1		•	•	•
Sonitron	Transducer	S: sweep	W: wire AWG 24	Mounting	1: wall connection	Separate
Alarm	(without		(12cm)	Bracket	2: flat connection	mounting
S eries	electronics)		P:round pin		(with grooves)	bracket
			F: fast-on terminal		3: flat connection	
			4.76mm		(with holes)	

LIST OF AVAILABLE PRODUCT TYPES

Without bracket

SAS-2155-S-F	SAS-2155-S-P	SAS-2155-S-W
SAST-2155-F	SAST-2155-P	SAST-2155-W

With bracket

SAS-2155-S-F-MB1	SAS-2155-S-P-MB1	SAS-2155-S-W-MB1
SAS-2155-S-F-MB2	SAS-2155-S-P-MB2	SAS-2155-S-W-MB2
SAS-2155-S-F-MB3	SAS-2155-S-P-MB3	SAS-2155-S-W-MB3
SAS-2155-S-F-MB1S	SAS-2155-S-P-MB1S	SAS-2155-S-W-MB1S
SAS-2155-S-F-MB2S	SAS-2155-S-P-MB2S	SAS-2155-S-W-MB2S
SAS-2155-S-F-MB3S	SAS-2155-S-P-MB3S	SAS-2155-S-W-MB3S
SAST-2155-F-MB1	SAST-2155-P-MB1	SAST-2155-W-MB1
SAST-2155-F-MB2	SAST-2155-P-MB2	SAST-2155-W-MB2
SAST-2155-F-MB3	SAST-2155-P-MB3	SAST-2155-W-MB3
SAST-2155-F-MB1S	SAST-2155-P-MB1S	SAST-2155-W-MB1S
SAST-2155-F-MB2S	SAST-2155-P-MB2S	SAST-2155-W-MB2S
SAST-2155-F-MB3S	SAST-2155-P-MB3S	SAST-2155-W-MB3S

