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https://www.atd-elektronik.cz/
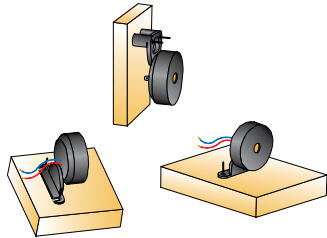https://www.atd-shop.com/

ALARMS SIRENS

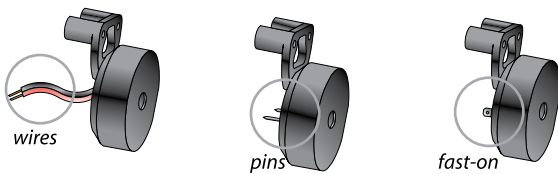SAP Series

SAS Series

SMAC Series

SXL Series

SDS Series

www.sonitron.be

KEY QUESTIONS FOR ALARM DETERMINATION

1. Mounting method:
e.g. Vertical, horizontal ?

2. Connection method: wires,
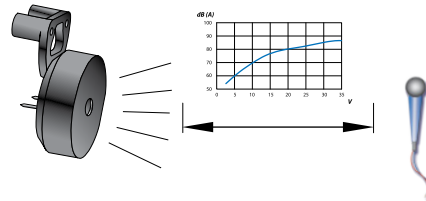**pins, fast-on terminals ?**

wires

pins

fast-on

3. Maximum dimensions (in mm):
lenght, width, depth ?
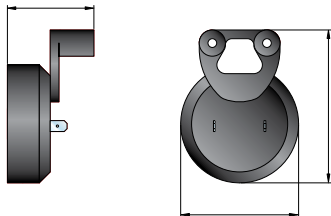
4. Supply voltage: 6, 12 or 24 Vdc ?

5. SPL – dB(A) @ 12Vdc,
@ 30 cm or 1 meter ?

6. Operating frequency range ?

Pink Noise, 60Vpp, 30cm

dB SPL

Frequency (Hz)

7. Current consumption in mA ?

Current consumption vs. operating voltage

mA

V

8. Temperature range in ˚C ?

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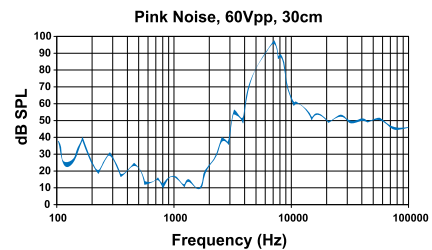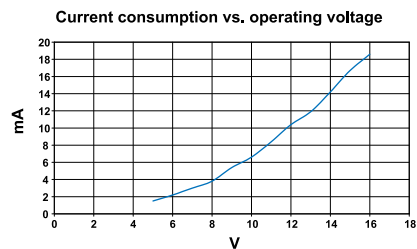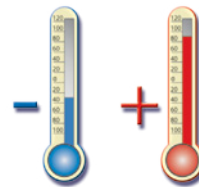
GENERAL OVERVIEW ALARMS & SIRENS

Model	Function	Operating voltage min Vdc	max Vdc	Frequency (Hz) (±30%)	Operating current (mA)	Sound pressure level* (dB(A)	Weight (g)

SAP series

Model	Function	min Vdc	max Vdc	Frequency (Hz) (±30%)	Operating current (mA)	Sound pressure level* (dB(A)	Weight (g)
SAP-1302-A	intermittent	12	24	1600	70	112	230
SAP-1302-B	intermittent	12	24	1600	65	107	230
SAP-1302-C	intermittent	12	48	1250	145	97	210
SAP-1302-D	intermittent	12	12	2500	15	87	230

measurement @12-24V @ 1.2 m

SAS series
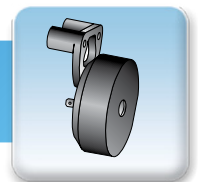
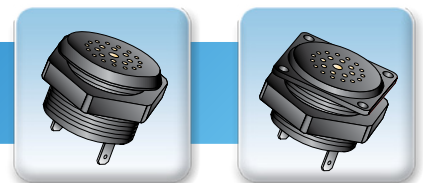| Model	Function	min Vdc	max Vdc	Frequency (Hz) (±30%)	Operating current (mA)	Sound pressure level* (dB(A)	Weight (g)
SAS-2155-S	sweep	6	15	2000-3500	120	110	67
SAST-2155	Transducer	-	-	2000-3500	-	-	67

measurement @12V @ 1 m

SMAC(I) series

Model	Function	min Vdc	max Vdc	Frequency (Hz) (±30%)	Operating current (mA)	Sound pressure level* (dB(A)	Weight (g)
SMAC-25	continuous	5	16	3350	9.7	93.5	7.8
SMACI-25	intermittent	5	16	3350	9.7	93.5	7.8
SMAC-25L	continuous	5	35	3350	17	100	8.5
SMACT-25	Transducer	-	-	3000-4000	-	-	7.8

measurement @12V @ 30 cm

SXL series

Model	Function	min Vdc	max Vdc	Frequency (Hz) (±30%)	Operating current (mA)	Sound pressure level* (dB(A)	Weight (g)
SXLC 515 C	continuous	5	15	3000	130	102	22
SXLI 515 C1	multifunction	5	15	3000	70	96	22
SXLW 515 C	warbler	5	15	3000	120	104	22
SXLP 515 C	sweep	5	15	3000	110	102	22

measurement @12V @ 1 m

Sonitron Automotive Piezo components

SAP-1302 series *Back up alarm*

The 1302 series of piezo alarms generate an acoustic intermittent loud tone and are installed at the back of a car, truck, tractor, jeep, golf-trolley, ... or any other vehicle that can move in reverse at any moment, thus alerting people that are approching the vehicle.

The 1302 series are tested for use in all weather conditions and have a lifetime in continuous use of more than 1000 hours, this unique patented technology is used now for more than 20 years in the most extreme conditions and critical applications. (Nato, Airbus, Volvo, avionics, Bombardier railways, VDO, etc...)

A very low current consumption permits the electrical connection of the alarm to the reversing lights of the vehicle.

Installation of the reverse drive piezo alarm is realised in only one hour by anybody and does not require special skills. Adapted mounting for models on request.
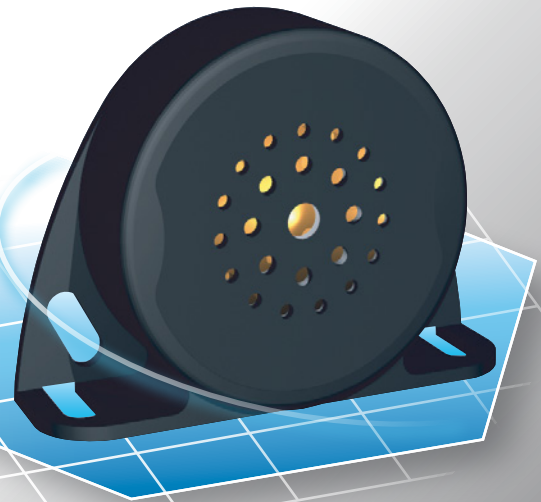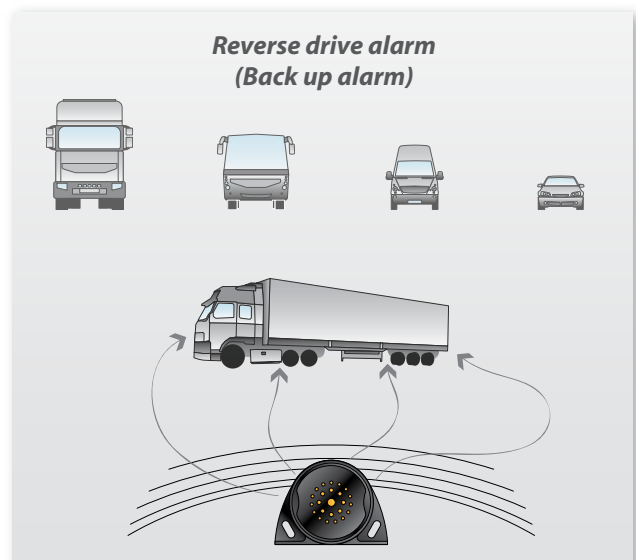
Automotive Design

ADVANTAGES & APPLICATIONS

ADVANTAGES :

*   Very low current consumption
*   Dust tight, shock and water resistant (IP67)
*   Low frequency (large travelling distance of audible wavelength)
*   No magnetic field (EMC)
*   Robust fibre reinforced PBT housing
*   High lifetime in continuous function
*   Easy mountable design
*   Multi voltage application (12/24/48Vdc)

APPLICATIONS :

*   Van
*   Fork-lift
*   Lorry
*   Bus
*   Light commercial vehicle
*   Car
*   Light truck
*   Garbage truck
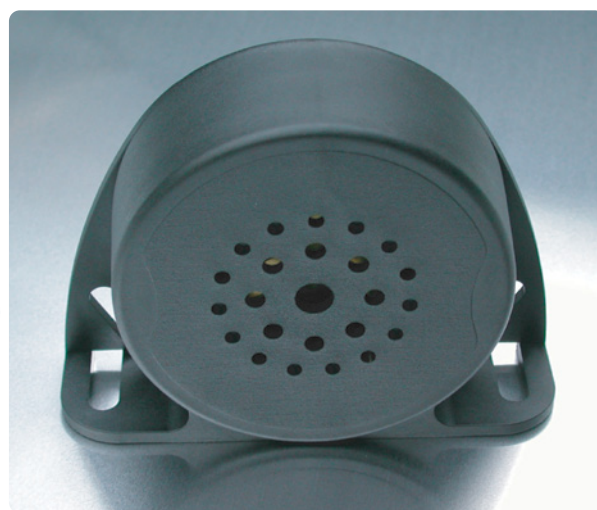*   Electric vehicles (golf, airport, warehouse,…)
*   Military vehicles

Reverse drive alarm
(Back up alarm)

SPECIFICATIONS

CE

MODELS	SAP-1302-A	SAP-1302-B	SAP-1302-C	SAP-1302-D
Operating voltage:	12/24 Vdc	12/24 Vdc	12/24/48 Vdc	12 Vdc**
Frequency (+/-15%):	1600 Hz (1Hz intermittent)	1600 Hz (1Hz intermittent)	1250 Hz (1Hz intermittent)	2500 Hz (1Hz intermittent)
Current consumption:	*12Vdc: 145 mA* (avg.) *24Vdc: 70 mA* (avg.)	*12Vdc: 140 mA* (avg.) *24Vdc: 65 mA* (avg.)	*145 mA* (avg.)	*15 mA* (avg.)
SPL@1.2m:	*112 dBA* (+/- 4 dB)	*107 dBA* (+/- 4 dB)	*97 dBA* (+/- 4 dB)	*87 dBA* (+/- 4 dB)
Life time (@21°C):	>1000 hours***	>1000 hours***	>1000 hours***	>1000 hours***
Case material:	PBT (UL rating: 94HB)	PBT (UL rating: 94HB)	PBT (UL rating: 94HB)	PBT (UL rating: 94HB)
Standard color of case:	Black	Black	Black	Black
Terminal material:	(F2)Fast-on or 30cm cable 2x1.5mm²	(F2)Fast-on or 30cm cable 2x1.5mm²	(F2)Fast-on or 30cm cable 2x1.5mm²	(F2)Fast-on or 30cm cable 2x1.5mm²
Storage Temp. range:	-40°C/+85°C	-40°C/+85°C	-40°C/+85°C	-40°C/+85°C
Operating Temp. range:	-40°C/+85°C	-40°C/+85°C	-40°C/+85°C	-40°C/+85°C
Weight:	230 g	230 g	210 g	230 g

- **Output voltage depending: min. 5 Vdc=76 dBA, max. 16Vdc=91 dBA.

- ***Lifetime: more than 1000 hours in continuous use, (Voltage: 12 Vdc ; T ambient: 21°C ; Humidity: 40 % ; Free air).
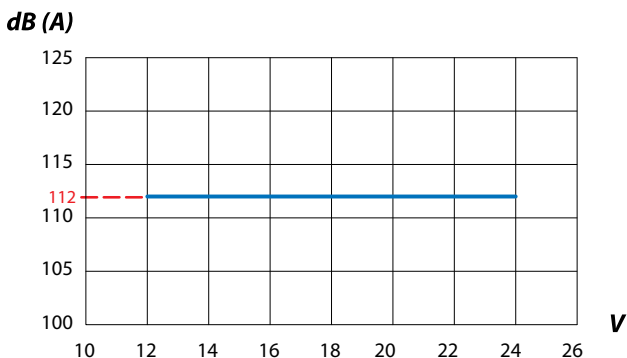
"Models on request" can be designed for this alarm construction!
Same housing other alarm tone:
- pulse tone
- continuous tone
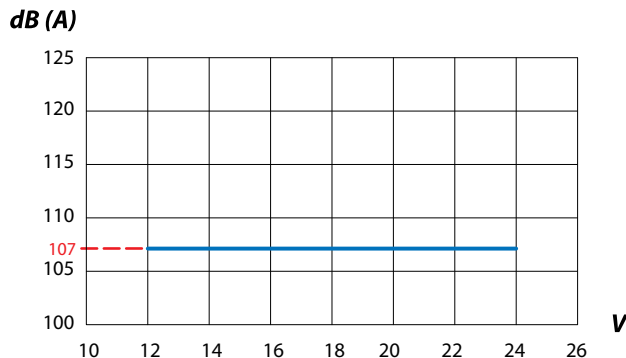- sweep tone, ...

Contact Support@sonitron.be

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Sound pressure level vs. operating voltage

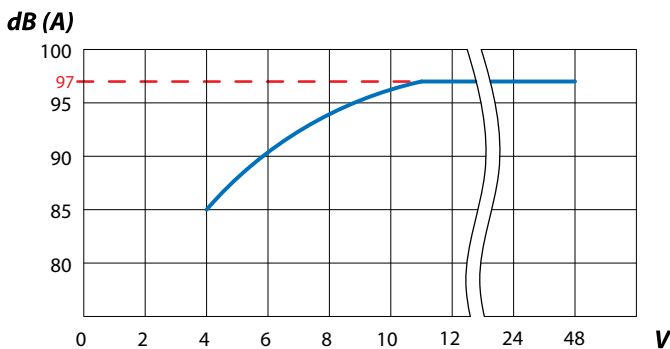### SAP-1302-A

dB (A)

SAP-1302-B
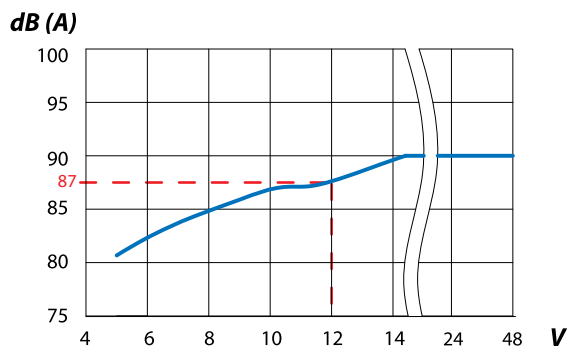
dB (A)

SAP-1302-C

dB (A)

SAP-1302-D

dB (A)

All measurements are made @ 12Vdc @1.2 meter in free air @ 21°C.

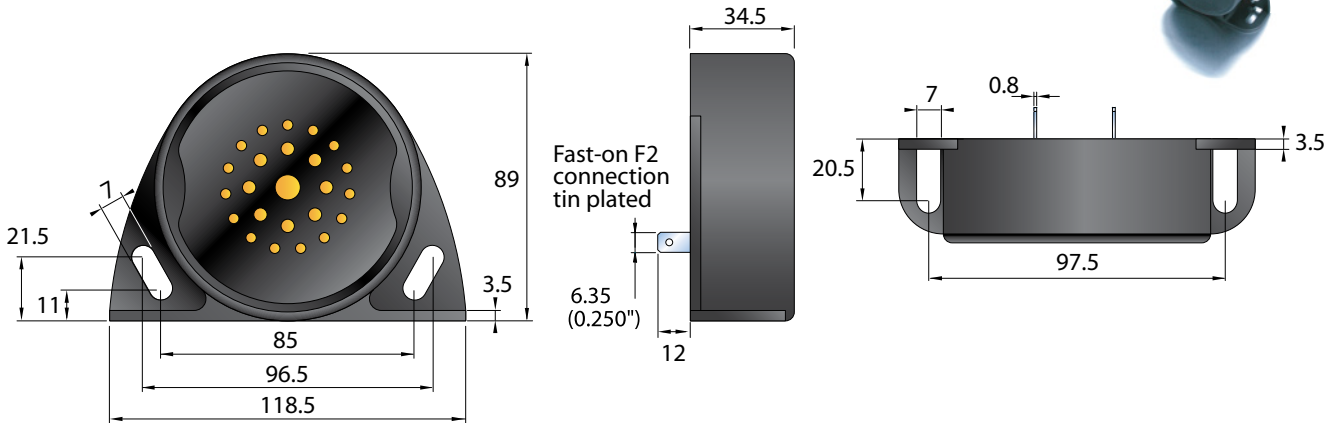## LIST OF AVAILABLE PRODUCT TYPES

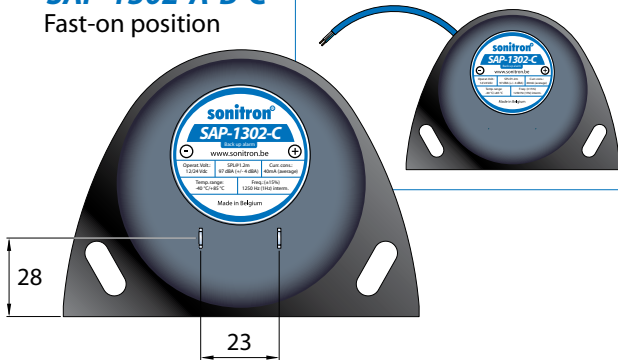|	
SAP-1302-A-F2	(Fast-on F2, tinned brass)
SAP-1302-A-W	(standard cable lenght=30cm)
SAP-1302-B-F2	(Fast-on F2, tinned brass)
SAP-1302-B-W	(standard cable lenght=30cm)
SAP-1302-C-F2	(Fast-on F2, tinned brass)
SAP-1302-C-W	(standard cable lenght=30cm)
SAP-1302-D-F2	(Fast-on F2, tinned brass)
SAP-1302-D-W	(standard cable lenght=30cm)

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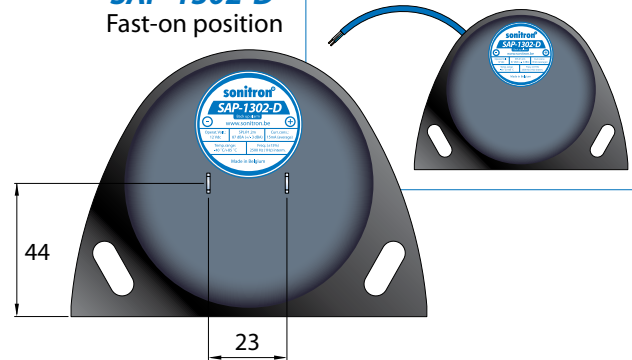
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https://www.atd-shop.com/

Dimensions *(in mm)*

34.5

Fast-on F2
connection
tin plated

6.35
(0.250")

12

89

3.5

21.5

1

11

85

96.5

118.5

7

0.8

20.5

3.5

97.5

SAP-1302-A-B-C
Fast-on position

Cable version
Standard cable lenght: 30 cm

sonitron®
SAP-1302-C
Back up alarm
www.sonitron.be
Operat.Volt: SPL/P1.2m
12/24 Vdc   67 dBA (v)   Cur.cons.
Temp.range: Freq.(±15%)
-40 °C/+85 °C   1200 Hz (1Hz) interm.
Made in Belgium

sonitron®
SAP-1302-C
www.sonitron.be
Made in Belgium

28

23

SAP-1302-D
Fast-on position

Cable version
Standard cable lenght: 30 cm

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Back up alarm
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sonitron®
SAP-1302-D
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Mounting guidelines

Min. 2 mm

M6 bolt
(recommended)

spacer

Min. 2 mm
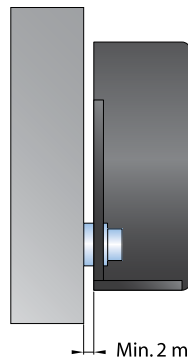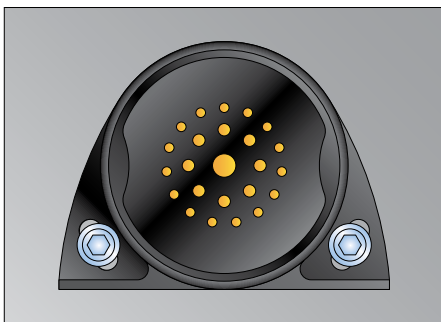
2x M6 screw, nut and washer
recommended for mounting
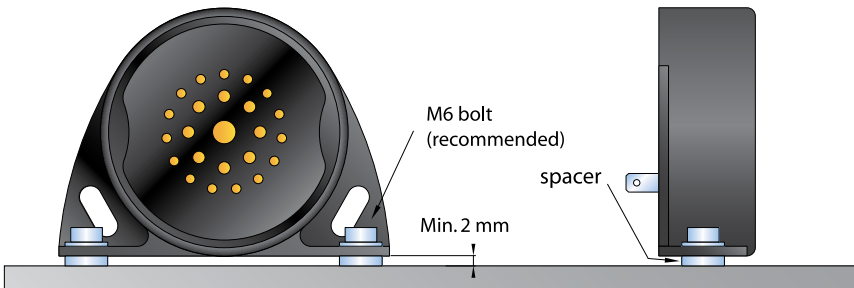
Packaging

One piece per box.

sonitron
SAP-1302-C

sonitron

SAP-1302-C

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