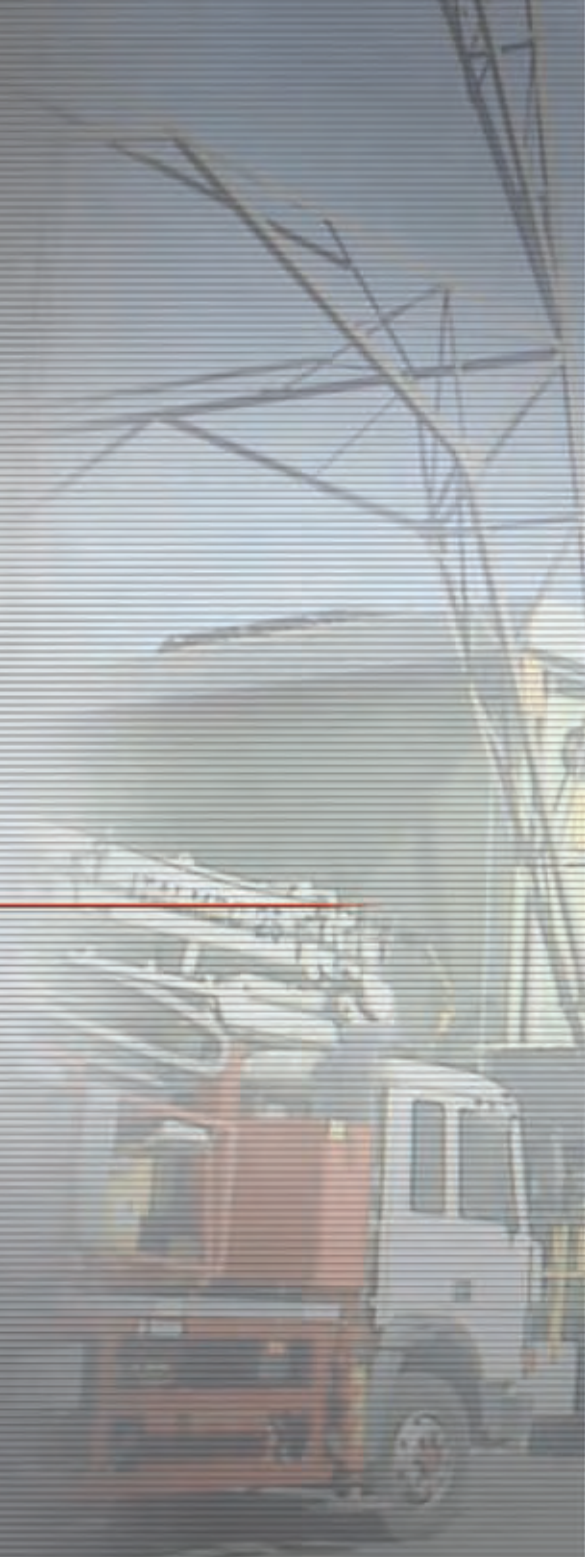
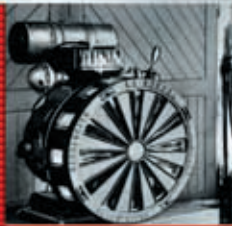


Industry and Civil Defence

2009

Catalogue Sirens,
Warning Lights Alerting Systems





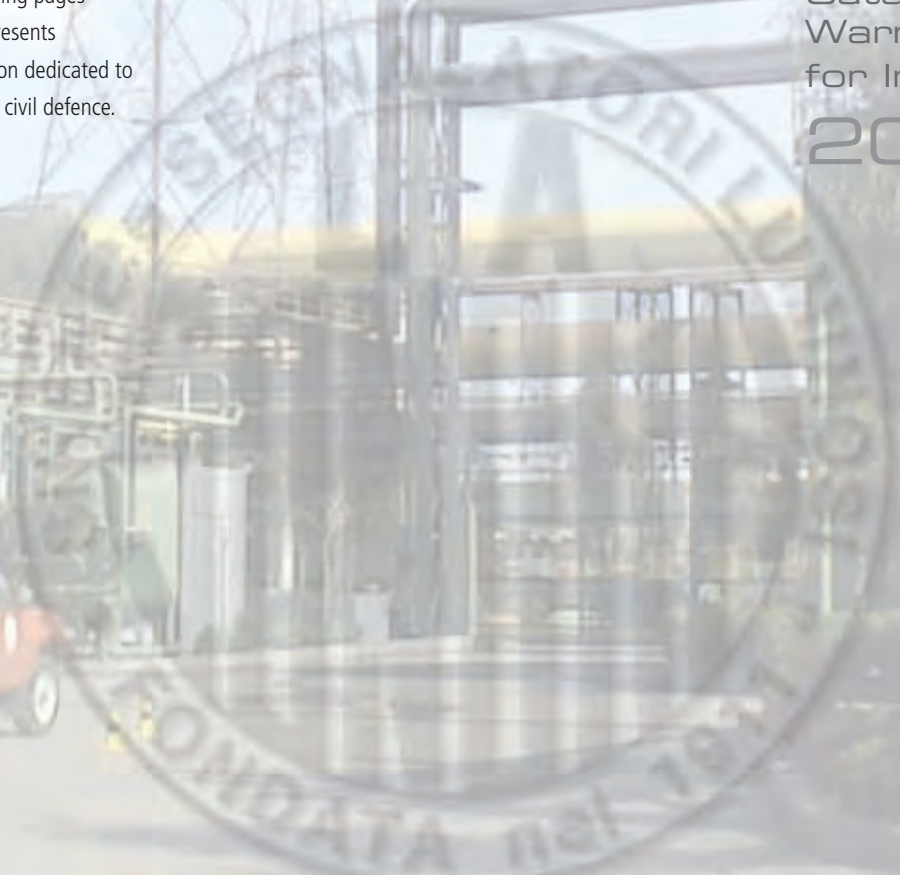
LA SONORA

since 1911

In the following pages
La Sonora presents
the production dedicated to
industry and civil defence.

Catalogue Sirens,
Warning Lights and Alerting Systems
for Industry and Civil Defence

2009





La Sonora®: constantly evolving since 1911

La Sonora® was born in 1911, our experience is our first guarantee.

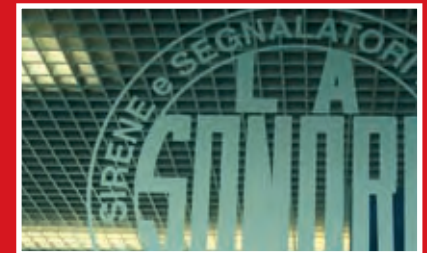
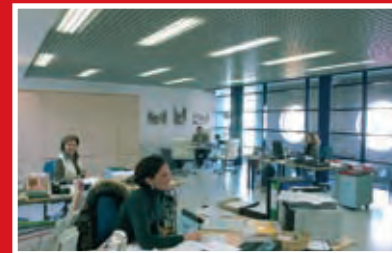
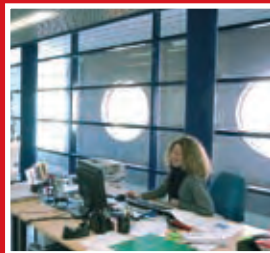
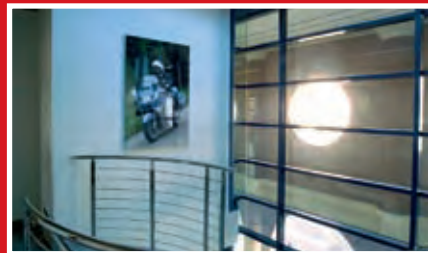
Our internal research laboratory is equipped with the most advanced equipment and skilled employees ensure a punctual research and they're always attentive to new technologies in the field of electronics.

The need for safety in the workplaces and the obligation to adapt to increasingly strict legislation, led La Sonora® to undertake new studies in order to achieve sound equipment that can meet the different needs of alert.

La Sonora®, thanks to cutting-edge available tools, to staff preparation and a long experience, is able to assess security needs and propose alerting systems made ad hoc and integrated over time with new sirens, where the changing needs require.



LA SONORA



Electromechanical sirens

- 8 small electromechanical sirens
 - plastic material:
MICROWATT/S | MICROWATT/I | MICROWATT 30/S |
MINIWATT | MINIWATT/S | MINIWATT 30/S |
- 10 medium-sized electromechanical sirens
 - plastic material:
MS.6.95 |
 - pressure die cast aluminium of average power:
MS1.45/S | MS1.45/M | MS1.45/V |
MS1.45/C | MS1.45/E | MS1.45/A |
 - pressure die cast aluminium of great power:
MS2.114/S | MS2.114/V | MS2.114/C |
MS2.114/E | MS2.114/A |
- 10 Large electromechanical sirens
 - single-phase power:
340/D-M |
 - three-phase power:
340/D | 400/D | 450/D |
- 16 Large directional electromechanical sirens
 - single-phase power:
340/DDE-M |
 - three-phase power:
340/DDE |
- 17 modulators for electromechanical sirens
MP.14-S |



Electronic sirens

- 13 Modulated electronic sirens
 - for interior:
ELSO 5T |
 - of high acoustic power:
RC 5T | RC 121 | SAT 5T | AUTOSAT
- 26 Control console and radio-pulsing for radio-controlled sirens:
CONSOLLE 8ZR | RADIOPULSANTE RDP |
- 28 Sirens with self electronic system for alerting
 - of average acoustic power:
POLLICINO | RADIOSAT |
 - of great acoustic power:
SENTINELLA 180-G |
SENTINELLA 360-G |
 - of maximum acoustic power:
VEDETTA SOLAR | VEDETTA ABM 500 |
VEDETTA ABM 1000 | VEDETTA ABM 2000 |

Anti-explosive sirens

- 19 Two-tone modulated electronic sirens
 - of iron:
RC 5T/AD |
 - of aluminium:
RC 5T/AL/AD | GR 5T/AL/AD |
- 20 electromechanical sirens
 - three-phase power:
340/EX | 400/EX | 450/EX |



Product Summary

Anti-explosive warning lights

- 22 Anti-explosive flashing warning lights
- with strobe lamp and iron casing:
LAMP 98/FH/AD |
- 23 Anti-explosive flashing warning lights
- with strobe lamp and aluminium casing:
LAMP 59/FH/AL/AD | LAMP 98/FH/AL/AD |
LAMP 100/FH/AL/AD | LAMP 112/FH/AL/AD |
LAMP 113/FH/AL/AD |



Warning lights

- 34 Flashing warning lights
 - with filament lamp:
LAMP 98/N | LAMP 112/N | LAMP 113/N |
 - with strobe lamp:
LAMP 98/FH | LAMP 112/FH | LAMP 113/FH |
 - with filament lamp and Fresnel lens:
LAMP 113/NL |
 - with strobe lamp and Fresnel lens:
LAMP 113/FHL | LAMP 100/FH |
 - rotating with filament lamp:
LAMP 150/N |



Acoustic warning lights

- 40 Warning lights and sound
 - light + sound
LAMP 98TF RGB | LAMP 112TF RGB |
BIP-LAMP 98/N | BIP-LAMP 112/N |
SONOLAMP 59 |
 - only light: LAMP 59 |
 - only sound: SONO 59 |



Special warning lights and portable sirens

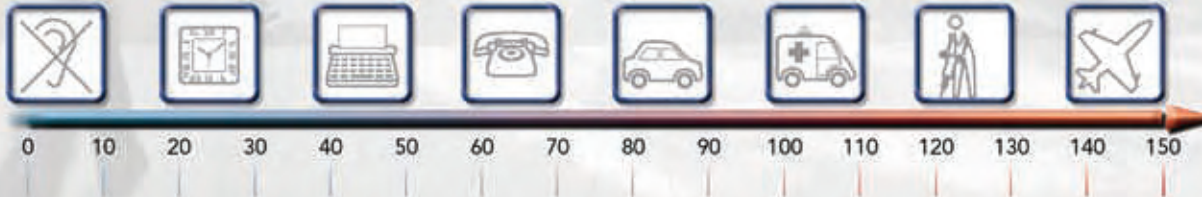
- 45 Torches
 - with rechargeable batteries:
SELUX 2020 LED | SELUX 2030 M |
SELUX 2035 IE |
- 46 Self contained sirens
 - with rechargeable batteries:
SONORET RC/R |
 - manual:
FUNISON/VOX |

Table

Theoretical variation of sound intensity compared to the distance of the source (dB)

dB(A) meters:

	1	2	3	5	10	20	30	50	100	200	300	500	1000	2000	3000	5000
Vedetta ABM	150	144	140	136	130	124	120	116	110	104	100	96	90	84	80	76
	148	142	138	134	128	122	118	114	108	102	98	94	88	82	78	74
	146	140	136	132	126	120	116	112	106	100	96	92	86	80	76	72
	144	138	134	130	124	118	114	110	104	98	94	90	84	78	74	70
	142	136	132	128	122	116	112	108	102	96	92	88	82	76	72	68
	140	134	130	126	120	114	110	106	100	94	90	86	80	74	70	66
	138	132	128	124	118	112	108	104	98	92	88	84	78	72	68	64
	136	130	126	122	116	110	106	102	96	90	86	82	76	70	66	62
	134	128	124	120	114	108	104	100	94	88	84	80	74	68	64	60
	132	126	122	118	112	106	102	98	92	86	82	78	72	66	62	58
Trifase	130	124	120	116	110	104	100	96	90	84	80	76	70	64	60	56
	128	122	118	114	108	102	98	94	88	82	78	74	68	62	58	54
	126	120	116	112	106	100	96	92	86	80	76	72	66	60	56	52
	124	118	114	110	104	98	94	90	84	78	74	70	64	58	54	50
Sentinella 180G	122	116	112	108	102	96	92	88	82	76	72	68	62	56	52	48
	120	114	110	106	100	94	90	86	80	74	70	66	60	54	50	46
	118	112	108	104	98	92	88	84	78	72	68	64	58	52	48	44
MS.2	116	110	106	102	96	90	86	82	76	70	66	62	56	50	46	42
SAT 5T	114	108	104	100	94	88	84	80	74	68	64	60	54	48	44	40
MS.6	112	106	102	98	92	86	82	78	72	66	62	58	52	46	42	38
	110	104	100	96	90	84	80	76	70	64	60	56	50	44	40	
RC 5T AL-AD	108	102	98	94	88	82	78	74	68	62	58	54	48	42	38	
	106	100	96	92	86	80	76	72	66	60	56	52	46	40		
RC	104	98	94	90	84	78	74	70	64	58	54	50	44	38		
	102	96	92	88	82	76	72	68	62	56	52	48	42			
	100	94	90	86	80	74	70	66	60	54	50	46	40			
Miniwatt	98	92	88	84	78	72	68	64	58	52	48	44	38			
	96	90	86	82	76	70	66	62	56	50	46	42				
	94	88	84	80	74	68	64	60	54	48	44	40				
Pollicino	92	86	82	78	72	66	62	58	52	46	42	38				
	90	84	80	76	70	64	60	56	50	44	40					
	88	82	78	74	68	62	58	54	48	42						
	86	80	76	72	66	60	56	52	46	40						
	84	78	74	70	64	58	54	50	44	38						
	82	76	72	68	62	56	52	48	42							
	80	74	70	66	60	54	50	46	40							
	75	69	65	61	55	49	45	41								
70	64	60	56	50	44	40	36									
65	59	55	51	45	39	35										



Electromechanical
rotating sirens

Electronic sirens

Electromechanical sirens
of great power



small electromechanical sirens

Microwatt



The cheapest siren of rotating series, made with black abs plastic.

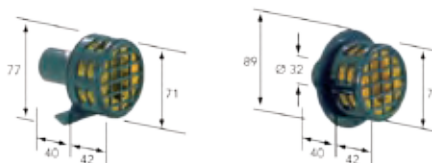
It can be built in or hung on the wall. It has 10W or 30W power. It also has 12V or 24V Dc or AC power supply.

It is the ideal siren for electrical panels, roundabouts and toys.

MICROWATT/S with clamp	MICROWATT/I for built-in	MICROWATT/30/I	MICROWATT/30/S	Nominal tension V	Current regime A	Absorption W	1m sound level dB A-SPL	Acoustic frequency Hz	Intermittent service min.	Isolation class engine/ motive	Degree of protection engine/motive IP	Degree of protection siren IP
14.42.002 C	14.42.003 C			12 AC/DC	0,83			900				
14.43.002 C	14.43.003 C			24 AC/DC	0,41	10	96	1000	15	E	44	14
		14.42.007 C	14.42.004 C	12 AC/DC	2,5	30	104	1400				

Weight: kg. 0,125 kg. 0,140 kg. 0,145 kg. 0,130

Audibility:
you can see table p. 6



small electromechanical sirens

Miniwatt

The mini-watt electro-sirens series essential prerogatives are: small size, exceptional acoustic performance and low consumption.

Essential wherever you require safe and excellent performance and any need for concealment.

Their ideal application is in anti-theft equipment, switchboards or any emergency signals.

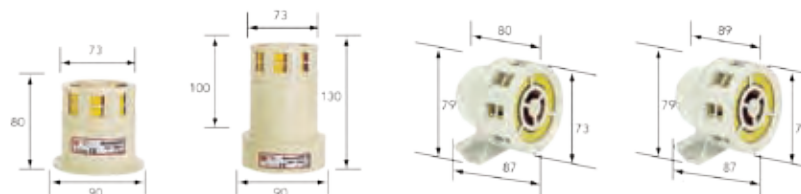


			MINIWATT	MINIWATT/S	MINIWATT 30/S	Nominal tension V	Current regime A	Absorption W	1m sound level dB A-SPL	Acoustic frequency Hz	Intermittent service min.	Isolation class engine/ motive	Degree of protection engine/motive IP	Degree of protection siren IP
	14.42.001 C	14.42.005 C				12 AC/DC	0,83							
	14.43.001 C	14.43.004 C				24 AC/DC	0,41	10	98	1000		E		
	14.45.001 C					125 AC/DC	0,36				15	F	44	14
	14.46.001 C					230 AC/DC		42	103	1500				
					14.42.006 C	12 AC/DC	0,20	30	104	1400		E		

Weight: kg. 1,900 kg. 2,000 kg. 2,100

Audibility:
you can see table p. 6

Share space in mm



Medium-sized electromechanical sirens

MS.6.95



Electro-siren made in ABS and F.V. nylon built with equivalent technical to pressure-die-casting sirens to get a good performance with reasonable costs.

Applications for anti-theft systems, fire prevention, construction sites, industry and emergency signals in general.

MS.6.95 with clamp	Nominal tension V	Current regime A	Absorption W	1m sound level dB A-SPL	Acoustic frequency Hz	Intermittent service min.	Isolation class engine/ motive	Degree of protection engine/motive IP	Degree of protection engine/motive IP
15.02.001 C	12 AC/DC	3,35	40	112	1300	15	E	44	14
15.03.001 C	24 AC/DC	1,6	40						
15.45.001 C	125 AC/DC	0,48	60						
15.46.001 C	230 AC/DC	0,26	60						

Weight: kg. 0,600

Audibility:
you can see table p. 6



Medium-sized electromechanical aluminium sirens

MS1.45

Electro-siren characterized by a high sound pressure in relation to the maximum electricity consumption.

They are suitable for boats, trucks, industrial installations or external equipment for anti-theft and fire.

Casing made of pressure-die-casting aluminium alloy; base in ABS and protective hat in anodized aluminium.

The version for motorboats the aluminium alloy parts treated with epoxy paint.

The cap is copper chromate to withstand weather.



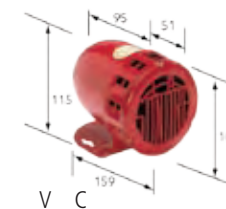
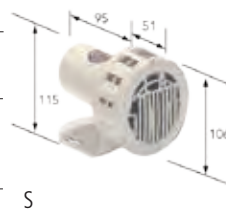
MS1.45/S with clamp	MS1.45/M For mopeds	MS1.45/N Fairing with cap	MS1.45/C For sea environment	MS1.45/E With cap for exterior	MS1.45/A With base	Nominal tension V	Current regime A	Absorption W	1m sound level dB A-SPL	Acoustic frequency Hz	Intermittent service min.	Isolation class engine/ motive	Degree of protection engine/motive IP	Degree of protection engine/motive IP
16.02.001 B	16.02.006 B	16.02.005 B	16.02.004 B	16.02.003 B	16.02.002 B	12 AC/DC	3,75							
16.03.001 B		16.03.005 B	16.03.004 B	16.03.003 B	16.03.002 B	24 DC*	1,85	45	114	1300	15	E	44	14
16.45.001 B		16.45.005 B		16.45.003 B	16.45.002 B	125 AC/DC	0,56							
16.46.001 B		16.46.005 B		16.46.003 B	16.46.002 B	230 AC/DC	0,32	70	112			F		

* a richiesta in AC

Weight:
kg. 1,050 kg. 0,800 kg. 1,200 kg. 1,300 kg. 1,100 kg. 1,000

Audibility:
you can see table p. 6

Share space in mm



Large electromechanical aluminium sirens

MS2.114



Electro-sirens of great acoustic power with excellent performance in relation to a very low power consumption.

They are suitable for boats, trucks, industrial installations or external equipment for anti-theft and fire.

Casing made of pressure-die-casting aluminium alloy, base in ABS and protective hat in anodized aluminium.

In the version for motorboats the aluminium alloy parts treated with epoxy paint.

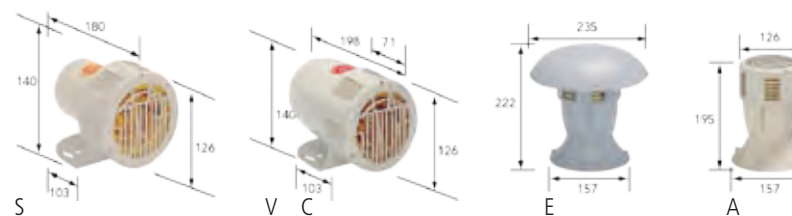
The cap is copper chromate.

MS2.114/S with clamp	MS2.114/V Fairing with cap	MS2.114/C For sea environment	MS2.114/E With cap for exterior	MS2.114/A With base	Nominal tension V	Current regime A	Absorption W	1m sound level dB A-SPL	Acoustic frequency Hz	Intermittent service min.	Isolation class engine/ motive	Degree of protection engine/motive IP	Degree of protection engine/motive IP
18.42.001 B	18.42.005 B	18.42.004 B	18.42.003 B	18.42.002 B	12 AC/DC	11,7							
18.43.001 B	18.43.005 B	18.43.004 B	18.43.003 B	18.43.002 B	24 AC/DC	5,9	140						
18.45.001 B	18.45.005 B		18.45.003 B	18.45.002 B	125 AC/DC	1,6		114	650	15	F	44	14
18.46.001 B	18.46.005 B		18.46.003 B	18.46.002 B	230 AC/DC	0,9	200						

Weight:
kg. 1,900 kg. 2,000 kg. 2,100 kg. 1,800 kg. 1,700

Audibility:
you can see table p. 6

Share space in mm



Electronic sirens for indoor and outdoor

Elsos A - RC Sat 5T - Autosat

Elsos electronic sirens are used only for indoor use, while RC and SAT series are suitable both for internal and external use because they're totally insensitive to moisture.

They can be applied on cars, motor-cycles and installed in alarm systems or communications.

All sirens allow the execution of 5 different modulations of sound.

Autosat model is powered by internal 12V recharged pad battery.



ELSO 5T A	RC - 5T	RC - 121	SAT - 5T	AUTOSAT
Bitonal	5 modulations	Yelp modulation		Self-supplied
Fast/low modulation				
Fixed/intermittent note				
13.81.011 C	13.81.012 C	13.02.011 C	13.81.001 B	50.51.006 B
		13.03.013 C	13.26.001 B	

Nominal tension V	Regime current A	Absorption W	Acoustic level 1m dB A-SPL	Acoustic frequency Hz	Service min.	Degree of protection siren
12÷24 AC/DC	0,16	4	101÷108 103÷110	440÷1600	continuo	42
12 DC	1	12	112	1800	15	54
24 DC	1	12	112	1800	15	54
12÷24 AC/DC	0,16	4	114	400÷1600	continuo	55
230 AC	0,04	9	115	440÷1600	continuo	55
	0,01*	2*	116	440÷1600	40	

Selectable sounds

BITONAL: 440Hz / 0,4s alternate 554Hz / 0,1s.

YELP: rump up and down fast from 650 to 1600Hz.

WAIL: rump up and down slowly from 650 to 1600Hz.

INTERMITTENT: 554Hz 1s ON - 1s OFF.

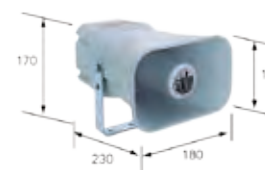
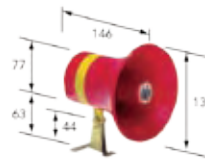
FIXED NOTE: 554Hz continuous

Weight:
kg. 0,570 kg. 0,550 kg. 0,550 kg. 1,800-2,060 kg. 2,300

Audibility: you can see table p. 6

Share space in mm

* only for battery recharge





Cod. 31.00.007

PC cap directs the sound down. It's particularly useful when the siren is installed on pole in a high position from the ground. It's made of glass fibre.

It's used for all the three phase D models.



Cod. 37.00.002

It has a hot-dip galvanized steel support for the installation of sirens on ceiling board and building roofs through Ø 110 mm pole.



Cupboard

Without modulator MP14-S:
 Cod. 24.26.001 B per 340/DM
 Cod. 24.28.001 B per 340/D
 Cod. 24.28.002 B per 400/D
 Cod. 24.28.003 B per 450/D

With modulator MP14-S:
 Cod. 24.26.007 B per 340/DM
 Cod. 24.28.004 B per 340/D
 Cod. 24.28.005 B per 400/D
 Cod. 24.28.006 B per 450/D

Locker starting siren, with remote-control switch, circuit protection and possible modulator.

60° angle
 Siren with Pc cap with down sound diffusion.

30° angle
 Siren with normal cap siren with horizontal sound diffusion.



Electromechanical sirens of great power

Three-phase

Industrial sirens of great acoustic power. They're omnidirectional and made of aluminium castings.

They're suitable for industrial installations or alerting systems in very vast areas.

They're especially protected against the atmospheric conditions.

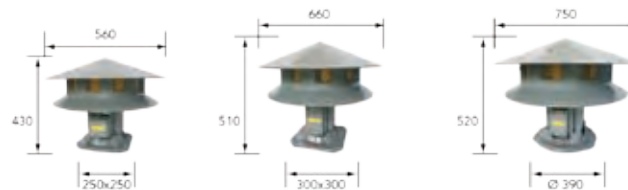


340/DM Single-phase	340/D Three phase	400/D Three phase	450/D Three phase	Nominal tension V	Frequency Hz	Motive power Cv	Absorption kW	Current regime A	Current cue A	Cos ϕ	1m sound level dB A-SPL	Acoustic frequency Hz	Rotation system Giri	Acceleration time sec	Window n°	Service	Execution time °C	Motive/eng. isol. class	Degree of protection engine/motive IP	Degree of protection siren IP
05.26.001 B				230	50	1,5	1	5,5	26	-	123	522	2850	10						
	05.28.001 B					1	0,74	3,5-2	22-13	0,82		515	2810	6	11					
		05.28.002 B		230-400	50	3	2,2	8-4,5	52-30	0,83	128	475	2850	3	10	continuo	-20+40	F	55	25
			05.28.003 B			5,5	4	13,1-8	90-52	0,84	131	430	2890	2	9					

Weight:
kg. 23 kg. 23 kg. 33 kg. 50

Audibility:
you can see table p. 6

Share space in mm



Electromechanical sirens of great power

Directional Three-phase



Directional siren made of aluminium.

Protected by a front patented panel made of stainless steel network.

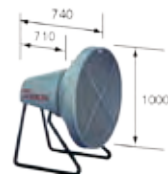
It's suitable for installations over dams. Audibility from m. 1500.

It has characteristics corresponding to 1125 ministerial circular.



340/DDE-M Single-phase	340/DDE Three phase	Nominal tension V	Frequency Hz	Motive power Cv	Absorption kW	Current regime A	Current cue A	Cos ϕ	1m sound level dB A-SPL	1.5m sound level dB A-SPL	Acoustic frequency Hz	Rotation system Giri	Acceleration time sec	Window n°	Service	Execution time °C	Motive/eng. isol. class	Degree of protection engine/motive IP	Degree of protection siren IP
05.26.002 B		230	50	1,5	1	5,5	26	-			522	2850	10						
	05.28.004 B	230-400	50	1	0,74	3,5-2	22-13	0,82	133	129	515	2810	6	11	continuo	-20+40	F	55	45

Weight: kg. 67 kg. 67



Programmable electronic modulator

MP-14-S

Mp 14-S modulator is ideal to steer single-phase and three-phase remote-control-switch sirens, getting the classic "wail", "intermittent wail", "continuous intermittent" and "continuous".

Designed specifically for electromechanical sirens of great power.

It can achieve the modulation required by 1125 ministerial circular.

It's enclosed in a case for omega guides which makes it an easy application in standard frameworks.



MP 14-S	Power supply V	Absorption W	Contacts n°	Scope contacts A	Contacts load V	Connection	Modulations n°
06.26.004 B	230 AC	1,2	2	5	250 AC/100 DC	Omega guide	4

Weight: kg, 0,350

Share space in mm



Anti-explosive aluminium and cast iron sirens and warning lights.



Electronic aluminium and cast iron sirens

RC 5T - GR 3T Anti-explosive

Electronic sirens of average and great power made of an anti-explosive cast iron or aluminium casing (RC st/ad).

They are in conformity with ATEX directives.

Cast iron sirens EEx-d IIC T5/T6 - Ex II2G .

Aluminium sirens EEx-d IIC T6 – Ex II2G.

Connection 3/4 NPT.

They're ideal for the installation in industrial areas at explosive risk.



Cast iron			Aluminium			Nominal tension V	Regime current A	Absorption W	Acoustic level 1m dB A-SPL	Acoustic frequency Hz	Service min	Degree of protection siren	Connection
RC 5T/AD Bitonal Fast/low modulation Fixed/intermittent note	RC 5T/AL/AD Bitonal Fast/low modulation Fixed/intermittent note	GR 3T/AL/AD Bitonal Slow modulation Fixed/intermittent note											
13.81.002 B	13.81.003 B		12÷24 AC/DC	0,16	4	98÷105 100÷106	440÷1600						
		13.81.004 B		0,2÷0,8	4÷19	104÷109				continuo	55	3/4"	
		13.45.001 B	125 VAC	0,15		110	440÷900						
		13.46.001 B	230 VAC	0,07	16	110							
Weight:	kg, 2,7	kg, 1,500											

Selectable sounds

BITONAL: 440Hz / 0,4s alternate 554Hz / 0,1s.

YELP: rump up and down fast from 650 to 1600Hz.

WAIL: rump up and down slowly from 650 to 1600Hz.

INTERMITTENT: 554Hz 1s ON - 1s OFF.

FIXED NOTE: (only for RC) 554Hz continuous

Audibility:
you can see table p. 6

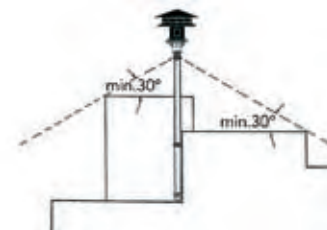
Share space in mm



Three-phase anti-explosive



30° angle
Siren with normal cap siren with horizontal sound diffusion.



Electromechanical sirens of great power

Three-phase anti-explosive

Three-phase electromechanical sirens of great sound power, built with anti-explosive motives.

They're in conformity with ATEX 94/9/CE directive with EX 113G EEX dc IIB T3 qualification.

Cable entry 1xM25 +1xM20.

They're ideal for installations in refineries or chemical plants where there is an explosive risk.

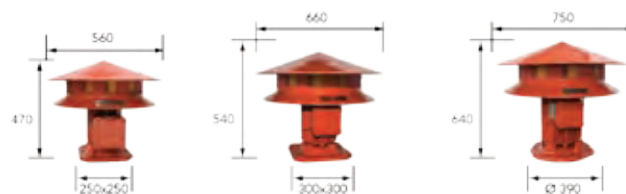


340/EX Three phase	400/EX Three phase	450/EX Three phase	Nominal tension V	Frequency Hz	Motive power Cv	Absorption kW	Current regime A	Current cue A	Cos φ	1m sound level dB A-SPL	Acoustic frequency Hz	Rotation system Giri	Acceleration time sec	Window n°	Service	Execution time °C	Motive/eng. isol. class	Degree of protection engine/motive IP	Degree of protection siren IP
05.28.030 B			230-400	50	1	0,74	3,5-2	22-13	0,82	123	515	2810	6	11	continuo	-20+40	F	55	25
	05.28.031 B				3	2,2	8-4,5	52-30	0,83	128	475	2850	3	10					
		05.28.032 B			5,5	4	13,1-8	90-52	0,84	131	430	2890	2	9					

Weight: kg. 36,2 kg. 54,2 kg. 85,1

Audibility:
you can see table p. 6

Share space in mm



Anti-explosive iron cast flash guns

Lamp 98



Warning lights with an anti-explosive iron cast casing; they are in conformity to ATEX directive with EEX-d IIIc T5/T6 qualification.

They're ideal for installations in industrial areas with explosive risk.

They use xenon lamps with high optical performance and low consumption.

¾ Npt Connecting plug.

LAMP 98 /FH/AD	Nominal tension V	Current mA	Average absorption W	Frequency Hz	Intermittent cycles/min.	Lamp power J	Service	Degree of protection siren IP
08.81.05* B	12÷24 AC/DC	90÷130	1÷3	-	75			
08.25.05* B	125 AC	15	1,8	50/60	110	6	continuo	66
08.26.05* B	230 AC	20	4,5					

Weight:

kg. 4,500

*cap colours :

1=red, 2=yellow, 3=orange, 4=green, 5=blue, 6=white



Anti-explosive aluminium flash guns

Lamp /AL

Warning lights with an anti-explosive aluminium casing; they're in conformity to ATEX directive with EEx-d IIC T6.

They're ideal for installations in industrial areas with explosive risk. They can be provided without protective cages.

They use xenon lamps with high optical performance and low consumption. 100 LAMP model has a strobe lamp and a Fresnel lens optical dif-fuser.

3/4 Npt Connecting plug.



LAMP 59 /FH/AL/AD	LAMP 98 /FH/AL/AD	LAMP 100 /FH/AL/AD	LAMP 112 /FH/AL/AD	LAMP 113 /FH/AL/AD	Nominal tension V	Current mA	Average absorption W	Frequency Hz	Intermittent cycles/min.	Lamp power J	Service	Degree of protection siren IP
08.81.30* B	08.81.31* B	08.81.32* B	08.81.33* B	08.81.34* B	12÷24 AC/DC	90÷130	1÷3	-	75			
08.25.34* B	08.25.30* B	08.25.31* B	08.25.32* B	08.25.33* B	125 AC	15	1,8			6	continuo	66
08.26.34* B	08.26.30* B	08.26.31* B	08.26.32* B	08.26.33* B	230 AC	20	4,5	50/60	110			

Weight:
kg. 1,500 kg. 2,350 kg. 3,200 kg. 3,120 kg. 2,500

*cap colours :
1=red, 2=yellow, 3=orange, 4=green, 5=blue, 6=white

Share space in mm



Integrated system for industrial alerting
with LPD 869 Narrow Band radio system.



Thanks to a great experience, la Sonora achieved an industrial integrated alert system using sirens of different power, linked by radio through an LPD Narrow Band connection that meet the following needs:

Easiness of installation

The high cost of laying cables for signs of activation led us to us to realize the communication by radio with LPD Narrow Band modules that can operate even in a 3000 m. radius in open field. Alarm reset and faults signals are communicated by this radio system. Each unit can become repeater so as to extend the radio range to areas not directly reached by radio signal. You can also use a unit as a single repeater to be fitted up to a top of the plant.

230 V ac is the only power supply required for charging a battery buffer. All the sirens have a minimal footprint and the installation is extremely easy.

Easiness of maintenance

Maintenance, especially for sirens of great power, is extremely simply compared to previous models. The replacement of batteries, of speakers and electronics can be made directly by the customer without dismantling the wall or pole support.

Easiness of use (in case of emergency)

Facing to an emergency forces people to perform the procedures in a state of agitation. In this situation of stress, the procedures can be performed incorrectly. For this reason we created a command console that lets you make an alert by simply pressing buttons.

Zoning

The plant can be divided from 1 to 8 zones that can be alerted separately. For each group can be associ-

ated unlimited sirens.

Immediate recognizability of sound signal

Recognition of a sound must be possible in a short time and therefore cannot

be entrusted to the perception of time, but the same type of sound. Recognizing an intermittent sound from a two-tone dial requires a couple of seconds, it's difficult to distinguish a sound that lasts 10 seconds from a 20.

Our sirens are able to produce 3 modulations that are easily recognizable:

Two-tone dial: is the alternation of two sounds that have different tones (the sound is devoid of intervals of silence).

Intermittent: is a single tone interrupted by breaks of the same length of sound time (the sound is interspersed with silence).

Ramp: is a continuous sound whose frequency rises and falls (the sound hasn't intervals of silence).

Integration of different power systems in connection with an environment that has to be alerted

The availability of 180G and 360G Pollicino, Radiosat, Sentinella and Vedetta sirens could fit the sound power to different environments. With a console you can alert offices, for example, by 3 Pollicino sirens installed in the corridors, a workshop and a storage with a Radiosat siren each, a work department with 2 180G Sentinella, a parking with 2000 Vedetta. All this by pressing a single button on the console.

Diagnostic

Every siren is capable of self-testing cyclically. The diagnostic led on every siren give indications about

any anomalies that emerged during the self-test and a signal is sent to the console that acoustically and visually identify the abnormality in the group which the siren is part of.

Use of alternative energy when the network is missing

1000S Vedetta is a siren that can charge 8 horns and is supplied by a 24 Vdc isolated system employing 2 photovoltaic panels and two batteries in series. So that it can charge areas without 230 Vac power.

Self power supply

All the electronic sirens Pollicino, Radiosat, Sentinella and Vedetta series are powered by internal buffer batteries that allow the operation even without 230 Vac.

Environmental analysis

The multitude of alerting environments and variety of working conditions in force to conduct an environmental review to identify the most favourable conditions to the perception of acoustic signals. Very noisy environments and the acoustic requirement for operators, produce prohibitive conditions for listening to emergency signal; if you use alerting systems non designed ad hoc. Carrying out spectral analysis to discover the dominant frequencies of background noise, is important to "tune" the sound (you can select 3 different tones directly on the sirens), moving into areas with less spectral energy. For this purpose we are able to perform analysis, using the latest equipment and carry out field trials; under actual conditions, precisely because of the easiness of installation of Pollicino, Radiosat, Sentinella and Vedetta sirens and you can start them directly by radio.

Control console for radio-controlled sirens

8ZR Console



Table console is able to activate and control Pollicino, Radiosat, Sentinella and Vedetta (LPD) sirens.

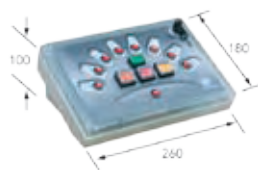
It has internal batteries so that it works without a network (till 24 hours).

It uses an LPD Narrow Band radio system to manage a plant divisible in 8 activable parts separately too.

It's able to report a failure of a siren belonging to a group. It requires to work only a 230V socket to recharge the batteries.

Console 8ZR	Nominal tension V	Absorption VA	Autonomy h	Communication
50.51.016 B	230 AC	4	24 (without network power supply)	Radio LPD Narrow Band

Weight: kg. 1,5



Share space in mm

Radio-pulsing for sirens

RDP Radio-pulsing

RDP Radio-pulsing locally activate all the models of radio-controlled sirens.

The communication by radio is actuated by an LPD Narrow Band radio with high performances. The maximum load with at sight antennas, in open field, can reach 3Km and more.

It doesn't require any connection to the external network, being fitted inside with a 9V alkaline battery that must be replaced every three years.

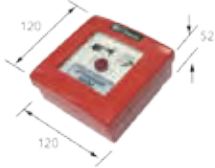
The degree of protection IP55 enables the installation even outside. You have to break the frontal glass protection and press the button to activate the sirens.



RDP radio-pulsing	Internal alkaline battery	Degree of protection	Radio Load m	Communication
50.51.020 B	9 V	IP 55	Max 3000 in free space	Radio LPD Narrow Band

Weight: kg. 0,310

Share space in mm



Radio-controlled electronic siren

Pollicino



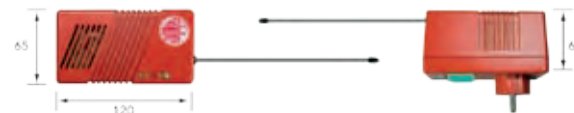
Pollicino is a 90 dB A 1 meter siren, suitable for offices and small rooms. It has an internal NiMh battery that allows autonomy till 24 hours without power supply.

All wall-fitted, equipment included, is the only installation required. It's able to have a self-diagnostics. It's possible to activate it locally with buttons or by radio with the LPD Narrow Band system and supports the repeater mode.

The radio load is about 3 km with at sight antennas in free spaces. The plant that uses Pollicino can be integrated with Radiosat sirens, 180G and 360G Sentinella and Vedetta series.

Pollicino	Nominal tension V	Absorption VA	Internal Battery	Modulations n.	Acoustic pressure	Communication	Max load in open field	Degree of protection
50.51.013 B	230 AC	2	1200mAh	3	80-91 dBA a 1 m	Radio LPD Narrow Band	3000 m	IP30

Weight: kg. 0,5



Radio-controlled electronic siren

Radiosat

It's an average power siren with 118dB A 1meter, with degree of protection IP 55 that allows installation in garages, warehouse, and sheds, outdoor too.

It has an internal NiMH battery that allows autonomy till 24 hours without batteries. 3 modulations are available: bitonal, intermittent, and modulated. The standard sound time is 3 minutes, but it can be fixed by the customer. A 230Vac socket is the only installation required.

It's able to have a self-diagnostic. You can activate it locally with but-

tons or with LPD Narrow Band radio system and supports the repeater mode.

The radio load is about 3 km with at sight antennas in free spaces.

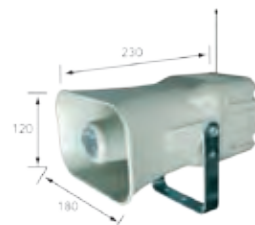
The plant, that Pollicino uses, can be integrated with sirens Pollicino, 180 and 360G Sentinella and Vedetta series.



Radiosat	Nominal tension V	Absorption VA	Internal battery	Modulations n.	Acoustic pressure	Communication	Max load in open field	Degree of protection
50.51.014 B	230 AC	4	NiMh 12V 1200mAh	3	118 dBA a 1 m	Radio LPD Narrow Band	3000 m	IP55

Weight: _____ kg. 2,5

Share space in mm _____



Sentinella

Siren of great power with 124dB 1 meter, it allows the diffusion of sound at 180° and 360° (degrees). It's available for external installation with IP55 degree of protection. The 180-G version allows an easy application on walls, while 360-G is designed for the application on standard 89mm tapered template pole and in open spaces and squares. An internal NIMh internal

battery allows autonomy till 24 hours without power supply. Three modulations are available: bitonal, intermittent, and modulated. The standard sound time is 3 minutes, but it can be fixed by the customer. This siren, with charged batteries, can play for 15 minutes. A 230 Vac socket is the only installation required. It's able to have a self-diagnostics. You can activate

it locally with buttons with Lpd Narrow Band radio System and supports the repeater mode.

The radio load is about 3 km with at sight antennas in free spaces.

The plant Sentinella 180-G and 360-G uses, can be integrated with Pollicino, Radiosat and Vedetta series.



Sentinella 360-G
(installed on pole)



Sentinella 180-G
(installed on wall)

Radio-controlled electronic siren

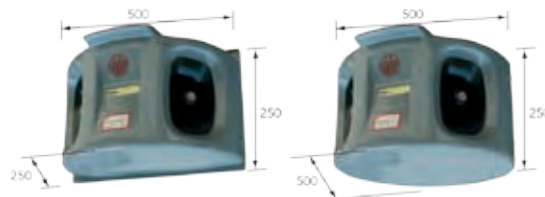
Sentinella 180-G / 360-G



Sentinella 180-G	Sentinella 360-G	Nominal tension V	Absorption VA	Internal battery	Communication	Max load in open field	Sound performances	Sound diffusion	Acoustic horns n.	Modulations n.	Degree of protection
50.51.015 B		230 AC	15	NiMh 22V 1200mAh	Radio LPD Narrow Band	3000 m	124 dBA a 1 m	180°	2 da 70Wrms	3	IP55
	50.51.019 B							360°	4 da 70Wrms		

Weight: kg. 7,5 kg. 16

Share space in mm



Electronic siren of great power with photovoltaic panels

Vedetta ABM 1000S



Electronic siren of great power, available in the 1000W model. The siren power supply is made of 2 batteries kept in buffer charge from 2 photovoltaic panels.

Assuming the installation in the most unfavourable geographical Italian site, with open air at 360°, the system is able to work even in case of 90 days of prolonged bad weather. This capability, apparently excessive, is justified by the fact that this is an emergency system without any risk of not working plant.

The solar system can be installed on road tapered pole with 89 mm diameter.

It's set up for start-up with local buttons or they can be interfaced with LPD Narrow Band system or with GSM by console.

It's equipped with self-diagnostic and anomalies visualization.

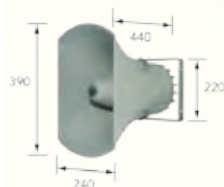
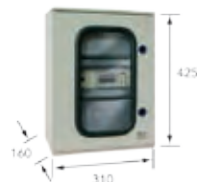


Vedetta ABM 1000 S	Nominal tension V	Absorption VA.	2x Batteries	Sounds number	Max number of horns	Horns weight kg	dBa direct - Acoustic level	Amplifiers n.
50.50.021 B	230	60	110Ah 12V	3	8	48	148	2 da 500W

Weight:

- Cupboard	kg. 7,500
- Structure with panels	kg. 46,000
- 2 batteries 110 Ah Cad.	kg. 40,300
- PH 120 Cad Horn Cad.	kg. 5,700

Share space in mm



Electronic siren of great power Vedetta ABM

Electronic siren of great power, available in 500, 1000 and 2000W models.

The siren power supply is made of 2 batteries kept in buffer charge from 230Vac power supplier. They can be "started" with local buttons or interfaced with LPD Narrow Band or GSM System with Console.

All the models are equipped with self-diagnostic and anomalies visualization.



Vedetta ABM 500	Vedetta ABM 1000	Vedetta ABM 2000	Nominal tension V	Absorption VA.	2x Batteries	Sounds number	Max number of horns	Horns weight Kg	dBa direct. Acoustic level (1m)	Amplifiers n.
50.50.010 B			230	60	7Ah	3	4	24	142	1
	50.50.011 B	17Ah			8		48	148	2	
	50.50.020 B	45Ah			16		96	154	4	

GSM™

Weight Cupboard + batteries:
kg. 10,500 kg. 21,500 kg. 43,000

- PH 120 Cad Horn Cad. kg. 5,700

Share space in mm



Warning lights



small warning lights

Lamp 98/N

Small warning lights made with filament lamps.

They're suitable for alarm, electric gates, forklifts trucks and everywhere you should see a situation in effect.



LAMP 98/N Filament lamp	Nominal tension V	Current peak A	Average absorption W	Lamp power W	Intermittence cycles/min.	Service	Degree of protection IP
08.81.24* C	12÷24 AC/DC	-	10,5	21	60	Continuous	53
08.24.00* C	48 AC	0,52	7	25	100		
08.25.00* C	125 AC	0,2					
08.26.00* C	230 AC	0,1					

Weight: kg. 4,500

*cap colours :
1 = red, 2 = yellow, 3 = orange, 4 = green, 5 = blue, 6 = white.



Share space in mm

small warning lights

Lamp 98/FH-100/FH



Warning lights made with xenon lamps with high optical performance and low consumption.

Lamp 100/fh model has a strobe lamp and Fresnel lens optical dif-fuser.

These warning lights are suitable for alarm, electric gates, forklifts trucks and everywhere you'd see a situation in effect.

LAMP 98/FH Strobe lamp	LAMP 100/FH Strobe lamp	LAMP 100/FH MULTI-TENSION	Nominal tension V	Current mA	Average absorption W	Lamp power J	Intermittent cycles/min	Service	Degree of protection IP
08.81.02* C	08.81.13* C		12÷24 AC/DC	90÷130	1÷3		75		
08.25.02* C			125 AC	15	1,8				
	08.25.13* C				0,625	6	110		53
08.26.02* C			230 AC	20	4,5			Continuous	
	08.26.14* C				2,2				
		08.49.003 C	10÷100 DC	50÷200	6				

Weight: kg. 0,180 kg. 0,280 kg. 0,280

*cap colours :
1 = red, 2 = yellow ,3 = orange, 4 = green, 5 = blue, 6 = white.



Share space in mm

Medium-sized warning lights

Lamp 1 1 2/N-1 1 3/N-NL

Medium-sized warning lights made with filament lamps. Lamp 113/NL model has a Fresnel lens in the flashing to improve its performance.

They're suitable for alarm, electric gates, forklifts trucks and everywhere you'd see a situation in effect.



			Nominal tension V	Current mA	Average absorption W	Lamp power W	Intermittent cycles/min	Service	Degree of protection IP
LAMP 112/N Filament lamp	LAMP 113/N Filament lamp	LAMP 113/NL Filament lamp	12÷24 AC/DC	-	22,5	45	60		
			48 AC	0,83	10 20				
08.24.01* C	08.24.08* C	08.24.10* C	125 AC	0,32	10 20	40	100	Continuous	53
08.25.01* C	08.25.08* C	08.25.10* C	230 AC	0,17	10 20				
08.26.01* C	08.26.08* C	08.26.10* C							

Weight: kg. 0,200 kg. 0,200 kg. 0,200

*cap colours :
1 = red, 2 = yellow ,3 = orange, 4 = green, 5 = blue, 6 = white.

Share space in mm



Medium strobe warning lights

Lamp 112/FH-113/FH-FHL



Medium warning lights made with xenon lamps, with high optical performance, related to consumption.

Lamp 113/FHL model has a Fresnel lens in the flashing to improve its performance.

They're suitable for alarm, electric gates, forklifts trucks and everywhere you'd see a situation in effect.

LAMP 112/FH Strobe lamp	LAMP 113/FH Strobe lamp	LAMP 113/FHL Strobe lamp	Nominal tension V	Current mA	Average absorption W	Lamp power J	Intermittent cycles/min	Service	Degree of protection IP
08.81.03* C	08.81.09* C	08.81.11* C	12÷24 AC/DC	90÷130	1÷3		75	Continuous	53
08.25.03* C	08.25.09* C	08.25.11* C	125 AC	15	0,625	6	110		
08.26.03* C	08.26.09* C	08.26.11* C	230 AC	20	2,2				

Weight: kg. 0,230 kg. 0,230 kg. 0,390

* cap colours :
1 = red, 2 = yellow ,3 = orange, 4 = green, 5 = blue, 6 = white.



Large rotating warning lights

Lamp 150

Large rotating warning lights ideal for fixed installations and on motor-vehicles.

They're used by: emergency services, police and emergency vehicles.



LAMP 150/N Filament lamp	Nominal tension V	Current mA	Lamp power W	Intermittent cycles/min	Service	Degree of protection IP
09.02.00* C	12 DC	3,75	45	120	Continuous	53
09.03.00* C	24 DC	1,88				
08.25.12* C	125 AC	0,32	40			
08.26.04* C	230 AC	0,18				

Weight: kg. 0,850

*cap colours :
1 = red, 2 = yellow ,3 = orange, 4 = green, 5 = blue, 6 = white.



Share space in mm

Acoustic warning lights



small and medium acoustic warning lights

BiP Lamp 98/LED RGB-112/LED RGB

Small and medium acoustic warning lights, made with Led RGB Technology that allows 200 times greater duration than traditional ones.

Low consumption allows the continued use even under harsh temperature.

There is the opportunity to realize all the colours available with a single model.

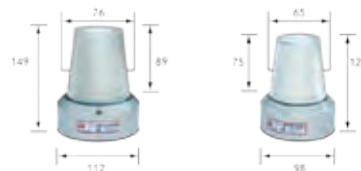
It's suitable for alarm, electric gates, forklifts trucks and to report the status of operation used in a single source. You can combine acoustic and light signal.



BIP LAMP 98 LED-RGB	BIP LAMP 112 LED-RGB	BIP 3 LAMP 98 LED-RGB	BIP 3 LAMP 112 LED-RGB	Nominal tension V	Average absorption W	Light source	Intermittent cycles/min	Sound level (1 meter) dB A-SPL	Acoustic frequency Hz	Service	Degree of protection IP	Range of colours LED
10.42.107 C		10.42.108 C		12 AC/DC								
	10.42.117 C		10.42.118 C		2÷5	LED RGB	120/fixed	76	2900	Continuous	53	7 (Blue, red, orange, yellow, white, violet, green)
10.43.107 C		10.43.108 C		24 AC/DC								
	10.43.117 C		10.43.118 C									

Weight:

kg. 0,170	kg. 0,220	kg. 0,170	kg. 0,220
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Share space in mm

small acoustic warning lights

Sonolamp



These warning signals are able to produce visual and acoustic signal at the same time.

This special property makes them suitable in environments where the light signal can be covered or be into shade related to the operator.

So the acoustic signal is able to draw attention.

They're suitable in environments where there are some workers with sight or visual defect.

SONOLAMP 59 light + sound	SONO 59 sound	LAMP 59 light	Nominal tension V	Current mA	Average absorption W	Lamp power W	Intermittent cycles/min	Sound level (1 meter) dB A-SPL	Acoustic frequency Hz	Service	Degree of protection IP
10.42.01* C			12 AC/DC	200	2,2	2	84	90	3220	Continuous	33
		08.42.01* C		170	2		110	-	-		
10.43.01* C			24 AC/DC	100	2,2	84	93	3220			
		08.43.01* C		90	2	110	-	-			
	10.81.001 C		12÷24 AC/DC	100	1,2	-	84	90	3220		

Weight: kg. 0,115 kg. 0,085 kg. 0,060

*cap colours :
1 = red, 2 = yellow ,3 = orange, 4 = green, 5 = blue, 6 = white.



small and medium acoustic warning lights

BipLamp 98/N-1 12/N

These acoustic warning lights emit an alternate sound (buzzer) to draw attention on a situation in effect.

They're suitable for alarm, electric gates, forklifts trucks and everywhere you'd see a situation in effect.



BIP-LAMP 98/N Filament lamp	BIP-LAMP 112/N Filament lamp	Nominal tension V	Current mA	Average absorption W	Lamp power W	Intermittent cycles/min	Sound level (1 meter) dB A-SPL	Acoustic frequency Hz	Service	Degree of protection IP
10.81.01* C	10.81.02* C	12÷24 AC/DC	1,75	10,5	21	90	76	2900	Continuous	53
10.24.01* C	10.24.00* C	48 AC	0,52	7	25	100				
10.25.01* C	10.25.00* C	125 AC	0,32	10	40	110				
10.26.01* C	10.26.00* C	230 AC	0,17	10	40	110				

Weight: kg. 0,200 kg. 0,220
 *cap colours :
 1 = red, 2 = yellow ,3 = orange, 4 = green, 5 = blue, 6 = white.

Share space in mm



Warning lights
and portable sirens



Portable warning lights

Selux

Emergency flashlight, it's equipped with halogen lamps (one spare is supplied) Focal adjustable high precision optical dish. The 2020 Selux model has led lights.



Cod. 22.21.005
Charger 230V for
Selux 2020 e
Selux 2030-M

Cod. 22.21.006
Charger 230V for
Selux 2035-IE

Depending on the model, the light can be only fixed or fixed/intermittent (mod. Selux 2035 IE).

Selux torches are supplied in series with a cone (yellow or red by choice), with a support for charging on motor-vehicles and loop for belts.

For the installation in office of Selux torches, you have to buy a 230V network charger.



LUCE LED

SELUX 2020 LED	SELUX 2030-M	SELUX 2035-IE	Batteries	Power supply V	Outlet tension charger V	Current charge mA	Lamp power W	Flashing frequency Hz	Continuous autonomy H	Light intensity cd	Degree of protection	Intermittent	Batteries economizer	Flat batteries signalling
20.57.008 B						100 cost.	6	-	1,3	20.000	IP 54	-	-	-
	20.57.005 B		Ni-MH	6 DC	12 DC	-	4	-	2,5	15.000	IP 64	-	-	-
		20.57.006 B					10	1,5	2	30.000		si	si	si

Weight: kg. 0,350 kg. 0,600 kg. 0,850

Cone colours: Red / Yellow.

Share space in mm



Autonomous portable electric siren

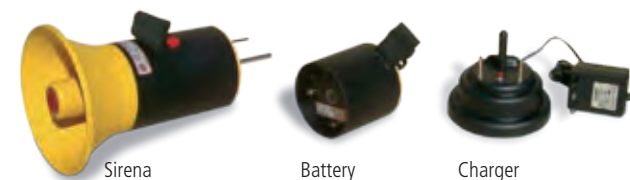
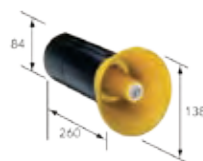
Sonoret



Sonoret SPR is suitable for most varied needs: from nocturnal guard to workers on railways and roads on Boats, to sporting events and in any place where the need for a buzzer alarm occurs.

With new separable battery pack, it's always possible to keep one charged and ready to use, using two or more packs.

	SONORET SPR with rechargeable batteries Ni.MH	Battery Ni.MH	Charger	Power supply	Recharge time h	Working tension	Sound level (1 meter) dB lin	Minimal frequency Hz	Maximum frequency Hz	Modulation period	Degree of protection IP	Endurance wit continuous sound (')	Nominal tension V	Absorption VA
	07.50.007 B			Batteria Ni-MH 12V 1200 m A/h	7	12Vdc	107,5	600	1200	4 sec	54	30		
		07.50.009 B												
			07.50.008 B											
Weight:	kg. 1,150	kg. 0,550	kg. 0,380											



Sirena

Battery

Charger

Autonomous manual mechanical siren

Funison Vox

Manually operated siren.

The characteristic of this siren is the autonomy and the portability that makes it unique.

It doesn't require power supply or maintenance and it can be used anywhere.

It's made in nylon with steel mechanics and dynamically balanced fan.

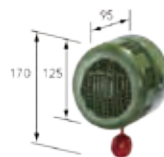


FUNISON VOX

07.50.005 B

Sound peak on siren beam (1 meter) dB	Frequency Hz	Rotor Ø mm	Rotating ring height mm
99	400	115	28

Weight: kg. 0,550



Share space in mm





LA SONORA

Notes

- The sound levels listed in the tables were collected in an anechoic environment/room.
- Audibility is related to the weather and environmental conditions.
- All data have a tolerance of $\pm 10\%$ that could be changed in our unquestionable choice.
- We reserve the right to change without notice, the specifications, and product name, declining all responsibility for any direct or indirect arising from possible changes.
- The photographs in this catalog are purely indicative. La Sonora, in constant search for improvement of its production, reserves the right to modify the products without any notice.

Conditions of sale

- **1** Goods shall, unless otherwise agreed, we mean free our home. Goods travel at risk of the client even when the price was agreed at destination.
The material for the repair must be addressed in free port. The material is delivered in vision in port assigned.
- **2** If not stated in the means by which the authority intends to use for shipping, I'm done with this medium are the most convenient.
- **3** We do not accept returns of merchandise without our consent.
- **4** **Supplies of less than EUR 130.00 are made in cash.**
- **5** The order must be received with all the personal data indicating any changes.
- **6** **It is necessary, during the order, always quote the product description.**
- **7** **We don't dispatch any merchandise without any court order.**
- **8** **In case of a dispute with the provision, you have to send us the complaint via fax, within 2 days from the date of receipt of goods.**

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