



FIAMM foundation in Montecchio Maggiore, Italy.

Launch of the first Mercury horn.

New partnership with Peugeot and Citroën and, in the following years, with Audi and BMW, supplying the first samples of AM80 horn. The Brazilian plant opens in São Paulo.

The acquisition of Magneti Marelli horns production leads FIAMM to cover FIAT horns demand almost totally.

Launch of the new product AM80S, so appreciated by the car makers that FIAMM in the following years will reach ten dedicated production lines in the world. FIAMM becomes the world's largest manufacturer of car horns

Fiamm develops the AM80SX horn with performance at the latest state of the art. FIAMM in these years reinforces its leadership in the car horn markets and reaches a yearly production of 40 million horns delivered all over the world

1942

1970

1990

1995

2013

2020

1960

1985

1992

2009

2019

Big growing years through massive provision of pneumatic horns to the wide retail market, as well as beginning of the collaboration with FIAT thanks to the compact dimensions of the new Electromagnetic horn CTP.

Beginning of total US market coverage, first with Ford (production of 6 million horns) and then with GM, reaching a production of 20 million horns per year.

Through the acquisition of the historical French horns manufacturer Klaxon, FIAMM achieves almost the entirety of Volkswagen, Peugeot and Renault horns demand, covering consequently the European Original Equipment horns market almost totally.

Fiamm opens a new horns plant in Wuhan, China, to support the car manufacturers based in this important growing market and developed LLH, an electronic horn to cover high usage applications.

Fiamm F.C.A. thanks to significant R&D investments successfully launches new electronic multi sound products, such as AVAS and MSHX. PSA chooses Fiamm as supplier for AVAS.

Headquarters

Viale Europa, 75
36075 Montebelluna Maggiore
Vicenza | Italy

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www.fiammcomponents.com

Production Plants

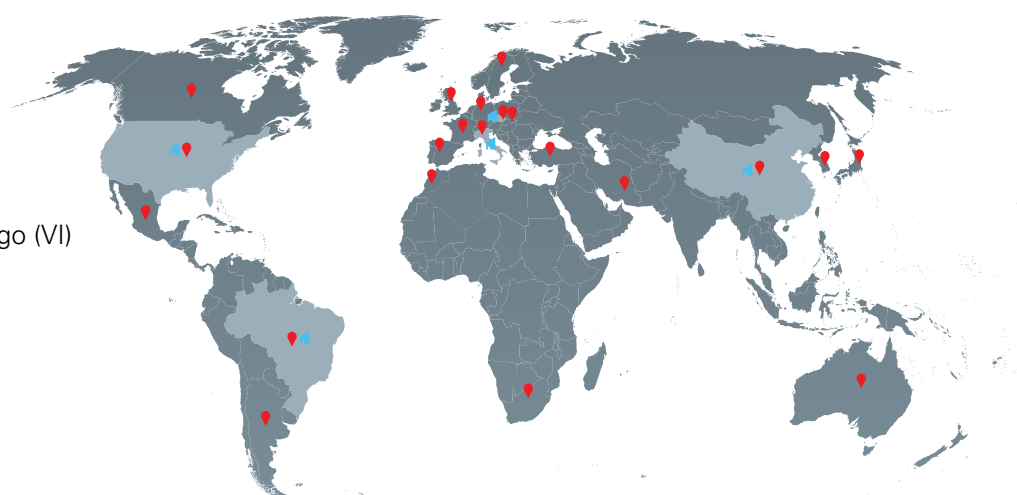
ITALY
Via Dovaro, 8 - 36045 Almisano di Lonigo (VI)

CHINA
Hannan District, 430090 Wuhan City,
Hubei Province

U.S.A.
1550 Leeson Ave., Cadillac, MI

BRAZIL
Av. Piraporinha, 121 - CEP 09891-0000
São Bernardo do Campo SP

MEXICO:
FIAMM Queretaro Plant, Carretera 431 Int 9 Módulo
9-2a Parque Tecnológico Innovación, Qro., Mexico



FIAMM horns are produced in the same production plants where also original equipment horns are manufactured, using the same technology, manpower, equipment and control systems approved by car manufactures.

Gli avvisatori acustici FIAMM sono prodotti negli stessi stabilimenti produttivi dove vengono realizzati anche gli avvisatori di primo impianto, utilizzando la medesima tecnologia, manodopera, impianti e sistemi di controllo approvati dai costruttori di autoveicoli.

Las bocinas FIAMM se producen en las mismas plantas de producción donde se realizan también los avisadores acústicos de equipo original, utilizando la misma tecnología, mano de obra, maquinaria y sistemas de control aprobados por los fabricantes de automóviles.

Les avertisseurs acoustiques FIAMM sont fabriqués dans les mêmes usines de production où se produisent aussi les avertisseurs pour le marché de l'équipement d'origine, en utilisant les mêmes technologie, main d'œuvre, équipements et systèmes de contrôle approuvés par les constructeurs automobiles.

Die FIAMM akustischen Signaleinrichtungen werden in denselben Produktionsstätten hergestellt, wo auch die Hupen für den Erstausrüstungsmarkt gefertigt werden. Dieselben von den Fahrzeugherstellern genehmigten Technologie, Arbeitskräfte, Maschinen und Kontrollsysteme werden benutzt.

O.E. Customers

- | | | |
|----------------|----------------|-----------------|
| • Alfa Romeo | • Mazda | • Caterpillar |
| • Aston Martin | • Mercedes | • Iveco |
| • Audi | • MINI (BMW) | • MAN |
| • BMW | • Mitsubishi | • Renault Truck |
| • BYD | • Nissan | • Scania |
| • Chrysler | • Opel (GM) | • Volvo Truck |
| • Citroën | • Peugeot | |
| • Ferrari | • Renault | |
| • FIAT | • SEAT | |
| • Ford | • Škoda | |
| • GM | • Toyota | |
| • Hyundai | • Vauxall (GM) | |
| • Jaguar | • Volvo | |
| • Lancia | • VW | |
| • Land Rover | | |
| • Maserati | | |

Certifications



www.fiammcomponents.com/Horns

THE WORLD'S LARGEST
MANUFACTURER OF CAR HORNS



Product Overview

ELECTROMAGNETIC

The sound is produced through an electro-magnetic circuit that forces a membrane to vibrate at high frequency.

Horns

Discs



AIR HORN

The sound is produced when compressed air passes through an acoustic trumpet.

Pneumatic

Solutions operating with the on-board air system of the vehicle.

Electropneumatic

Solutions equipped with a compressor and a set of trumpets.



EMERGENCY SOLUTIONS

Acoustic warning systems for priority and emergency vehicles.

Electronic

Acoustic system for continuous service, composed by an electronic control unit and a set of loudspeakers.

Electropneumatic

Acoustic system composed by a compressor and a set of trumpets.

Pneumatic

Acoustic system composed by an electronic control unit and a set of trumpets.



CUSTOMIZED SOLUTIONS

Avas

MSHX / LLHX



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Automotive

Automotive
(Passenger Cars,
Light Vehicles, Truck, Bus,
Motorbike)
Industrial
& Heavy Duty

FIAMM

AM80SX line

THE ORIGINAL EQUIPMENT BEST CHOICE
more compact more powerful

Compact emergency horn approved for road use. The most commonly installed by car manufacturers.

Avvisatore omologato a corno di ridotte dimensioni per uso stradale. Il più installato dai produttori di autoveicoli.

Bocina de caracol homologada, de dimensiones compactas, para el uso por carretera. La bocina más instalada por los fabricantes de automóviles.

Avertisseur homologué, de petite taille pour utilisation routière. Le système est le plus installé par la première monte.

Für den Straßenverkehr zugelassene Signaleinrichtung mit kleiner Hupe. Die von den Fahrzeugherstellern meist.

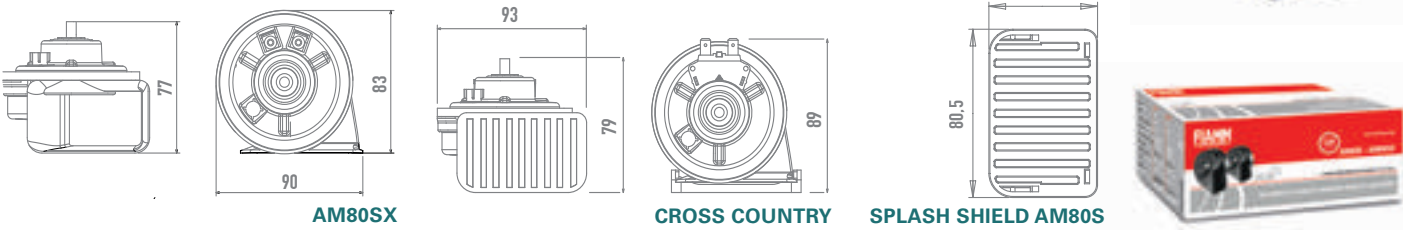


ELECTROMAGNETIC HORNS AVVISATORI ELETTROMAGNETICI AVISADORES ELECTROMAGNÉTICOS AVERTISSEURS ÉLECTROMAGNÉTIQUES ELEKTROMAGNETISCHE HUPEN		Voltage Voltaggio Voltaje Tension Spannung	Amp. Draw Assorbimento Amperios Consommation Stromaufnahme	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	Connectors Connettori Conectores Connecteurs Stecker	M O Q	Packaging
		V	A	dB(A) 2m	Hz	See table p. 19	u.	
	Steel/ABS							
	AM80SX							
	AM80SX - 2T COD. 932306Z + 1 RELAY AM80SX - 2T COD. 932307Z + 1 RELAY	12	9	113	L = 405 H = 495	2T	12 30	118 L1
	AM80SX/H 12V - 2T COD. 932039Z	12	4,5	110	H = 495	2T	63	117
	Steel/ABS							
	CROSS COUNTRY							
	AM80SX DUAL 2T 12V COD. 932081Z + 1 RELAY	12	9	112	L = 405 H = 495	2T	36	118
	AM80SX/H 2T 12V COD. 932082Z	12	4,5	4,5	H = 495	2T	63	117
	AM80SX/L 2T 12V COD. 932083Z	12	4,5	109	L = 405	2T	63	117

Type approval / Omologazione / Homologación / Homologation / Zulassung
Reg.28/Reg. 10 ECE

AM80SX The Tecnological Evolution

Sounds / Suoni / Sonidos / Sons / Klänge
www.fiammcomponents.com/Horns



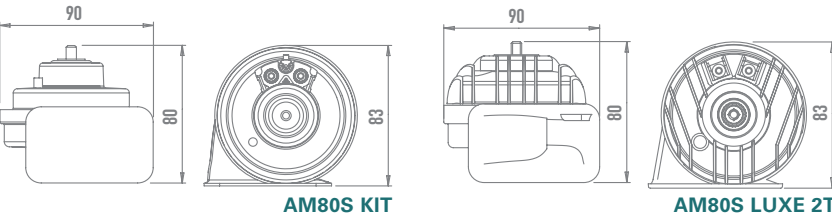
AM80SX line

ELECTROMAGNETIC HORNS AVVISATORI ELETTROMAGNETICI AVISADORES ELECTROMAGNÉTICOS AVERTISSEURS ÉLECTROMAGNÉTIQUES ELEKTROMAGNETISCHE HUPEN		Voltage Voltaggio Voltaje Tension Spannung	Amp. Draw Assorbimento Amperios Consommation Stromaufnahme	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	Connectors Connettori Conectores Connecteurs Stecker	M O Q	Packaging
		V	A	dB(A) 2m	Hz	See table p.19	u.	
	Steel/ABS KIT AM80SX KIT 2TJS COD. 932326Z + 1 RELAY		CITROEN / DACIA / PEUGEOT / RENAULT					
		12	9	110	L = 405 H = 500	2T JUMPER JPT JUMPER SICMA II	36	I16
	AM80SX/H KIT 2TJS COD. 932324Z	12	4,5	107	H = 500	2T JUMPER JPT JUMPER SICMA II	63	S6
	AM80SX/L KIT 2TJS COD. 932325Z	12	4,5	107	L = 405	2T JUMPER JPT JUMPER SICMA II	63	S6
	Steel/ABS KIT AM80SX/H KIT 2TV COD. 932327Z		AUDI / MERCEDES AMG / MERCEDES BENZ / SEAT / SMART / SKODA VOLKSWAGEN					
		12	4,5	107	H = 500	2T VDA	63	S6
	AM80SX/L KIT 2TJS COD. 932328Z	12	4,5	107	L = 405	2T VDA	63	S6
	Steel/ABS KIT AM80SX KIT 2TJU COD. 932331Z + 1 RELAY		ALFA ROMEO / ASTON MARTIN / CHEVROLET / FERRARI / FIAT / FORD HOLDEN / JAGUAR / LAND ROVER / LANCIA / MASERATI / NISSAN / OPEL SAAB / VAUXHALL MOTORS / VOLVO					
		12	9	110	L = 405 H = 500	2T JUMPER JPT JUMPER USCAR	36	I16
	Steel/ABS KIT AM80SX/H KIT 2TJU COD. 932329Z		ALFA ROMEO / ASTON MARTIN / FERRARI / FIAT / FORD / JAGUAR LAND ROVER / LANCIA / MASERATI / NISSAN / SAAB / VOLVO					
		12	4,5	107	H = 500	2T JPT USCAR	63	S6
	AM80SX/L KIT 2TJU COD. 932330Z	12	4,5	107	L = 405	2T JPT USCAR	63	S6
	Steel/ABS KIT AM80S/H KIT SP COD. 927384		BMW / MINI					
		12	4,5	107	H = 500	ELO STECKER ELO POWER	63	S6
	AM80S/L KIT SP COD. 927385	12	4,5	107	L = 405	ELO STECKER ELO POWER	63	S6
	Steel/ABS KIT AM80SX/H KIT UP COD. 932332Z		CHEVROLET / HOLDEN / MERCEDES VAN / OPEL / RENAULT VAN VAUXHALL MOTORS / VOLKSWAGEN VAN					
		12	4,5	107	H = 500	USCAR PACKARD	63	S6
	AM80SX/L KIT UP COD. 932333Z	12	4,5	107	L = 405	USCAR PACKARD	63	S6

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ELECTROMAGNETIC HORNS AVVISATORI ELETTROMAGNETICI AVISADORES ELECTROMAGNÉTICOS AVERTISSEURS ÉLECTROMAGNÉTIQUES ELEKTROMAGNETISCHE HUPEN		Voltage Voltaggio Voltaje Tension Spannung	Amp. Draw Assorbimento Amperios Consommation Stromaufnahme	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	Connectors Connettori Conectores Connecteurs Stecker	M O Q	Packaging
		V	A	dB(A) 2m	Hz	See table p.19	u.	
	Steel/ABS LUXE AM80SX LUXE - 2T COD. 924648 + 1 RELAY							
		12	9	110	L = 405 H = 500	2T	36	I16
	Steel/ABS AM80SX AM80SX-R - 2T COD. 927588 + 1 RELAY							
		12	9	110	L = 405 H = 500	2T	36	I16

Type approval / Omologazione / Homologación / Homologation / Zulassung
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TR99 line

A full range of approved road emergency horns for trucks that can also be used as industrial vehicle warning signals.

Una gamma completa di avvisatori stradali omologati per camion utilizzabili anche come segnalatori per mezzi industriali.

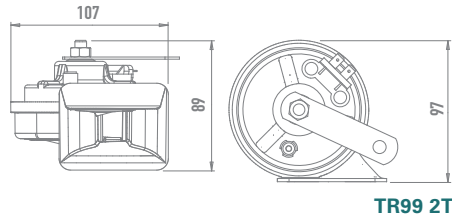
Una gama completa de bocinas de carretera homologadas para camiones, que se pueden utilizar también como señalizadores para vehículos industriales.

Une gamme complète d'avertisseurs routiers homologués pour camions, utilisables aussi comme avertisseurs pour moyens industriels.

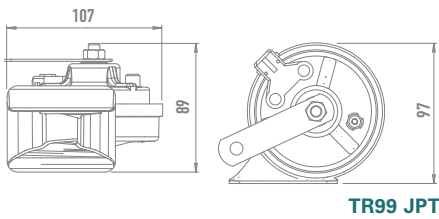
Eine komplette Produktreihe mit für den Straßenverkehr zugelassenen Hupen für LKWs, die auch für Industriefahrzeuge geeignet sind.

ELECTROMAGNETIC HORNS AVVISATORI ELETTROMAGNETICI AVISADORES ELECTROMAGNÉTICOS AVERTISSEURS ÉLECTROMAGNÉTIQUES ELEKTROMAGNETISCHE HUPEN		Voltage Voltaggio Voltage Tension Spannung	Amp. Draw Assorbimento Amperios Consommation Stromaufnahme	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	M O Q	Packaging
		V	A	dB(A) 2m	Hz	u.	
	Steel/ABS	TR99 2T					
	TR99 - 2T COD. 922010 + 1 RELAY	24	5	112	L = 420 H = 500	12	G1
	TR99/L+L - 2T COD. 922012 + 1 RELAY	24	5	112	L = 420	12	G1
	Steel/ABS	TR99 2T					
	TR99/H 24V - 2T COD. 922020	24	2,5	109	H = 500	9	I6
	TR99/L 24V - 2T COD. 922021	24	2,5	109	L = 420	9	I6
	Steel/ABS	TR99 JPT					
	TR99/L+L - JPT COD. 922018 + 1 RELAY	24	65	112	L = 420	12	G1

Type approval / Omologazione / Homologación / Homologation / Zulassung
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TR99 2T



TR99 JPT



HK line

Approved disc horns, available in the 80 mm version, ideal for applications on motorcycles and small cylinder vehicles, and in the 90 mm version for trucks.

Avvisatori a disco omologati, disponibili nella versione 80 mm, ideale per applicazioni su motocicli e veicoli di piccola cilindrata, e nella versione 90 mm per furgonati.

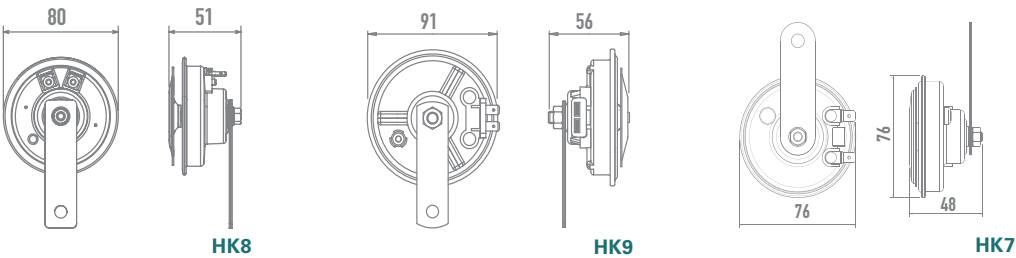
Bocinas de disco homologadas, disponibles en la versión 80 mm, ideal para aplicaciones en motocicletas y vehículos de pequeña cilindrada, y en la versión 90 mm, para furgonetas.

Avertisseurs à disque homologués, disponibles dans la version 80 mm, pour des applications sur motos et véhicules de petite cylindrée, et dans la version 90 mm pour fourgons.

Zugelassene Teller-Hörner, erhältlich in der 80mm Version, ideal zur Anwendung an Motorrädern und Kleinfahrzeugen und in der 90 mm Version für Lieferwagen.

ELECTROMAGNETIC DISC HORNS DISCHI ELETTROMAGNETICI DISCOS ELECTROMAGNÉTICOS DISQUES ÉLECTROMAGNÉTIQUES ELEKTROMAGNETISCHE TELLERHÖRNER		Voltage Voltaggio Voltage Tension Spannung	Amp. Draw Assorbimento Amperios Consommation Stromaufnahme	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	M O Q	Packaging
		V	A	dB(A) 2m	Hz	u.	
	Steel/Aluminium	HK8					
	HK8 - 2T COD. 930067 + 1 RELAY	12	8	113	L = 350 H = 420	12	I14
	HK8/H - 2T COD. 930068	12	4	110	H = 420	18	I12
	Steel	HK9					
	HK9 - 2T COD. 920994 + 1 RELAY	12	6	113	L = 340 H = 425	12	I14
	HK9/H - 2T COD. 920995	12	3	110	H = 425	18	I13
	Steel	HK9					
	HK9/L - 2T COD. 920996	12	3	110	L = 340	18	I13
	HK9 - 2T COD. 920368 + 1 RELAY	24	3	113	L = 340 H = 425	12	I14
	Steel	HK7					
	HK9/H - 2T COD. 920369	24	1,5	110	H = 425	18	I13
	HK9/L - 2T COD. 920370	24	1,5	110	L = 340	18	I13
	Steel	HK7					
	HK7/H - 2T COD. 930111	12	4	110	H = 430		COMING SOON
	HK7/H - 2T COD. 930112	12	3	110	L = 370		COMING SOON

Type approval / Omologazione / Homologación / Homologation / Zulassung
Reg.28/Reg. 10 ECE



JERICHO line

Pneumatic horns that operate with on-board air.

Avvisatori pneumatici, funzionanti con aria di bordo.

Bocinas neumáticas, que funcionan con sistema de aire de abordo.

Avertisseurs pneumatiques, qui fonctionnent avec l'air interne.

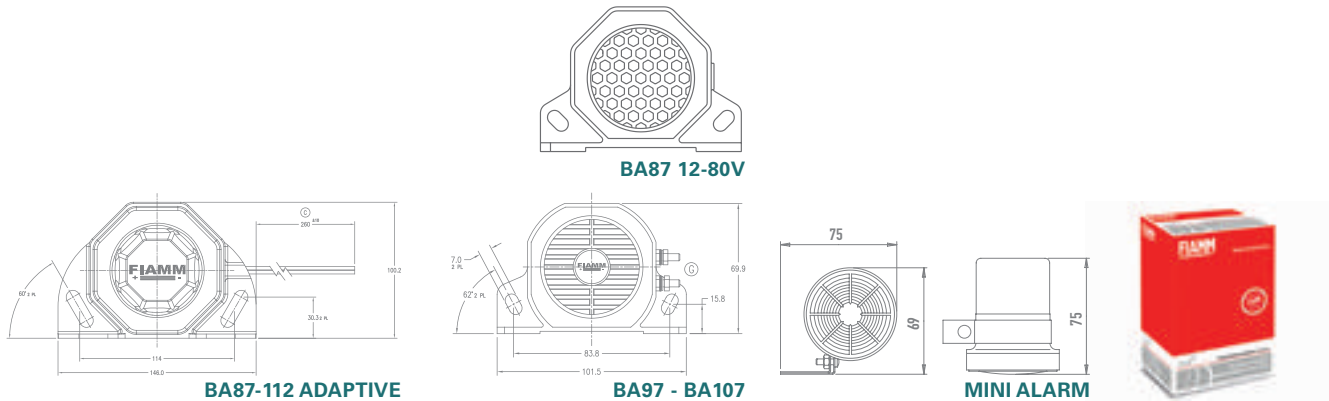
Pneumatische Hupen, die mit Fahrzeugdruckluft funktionieren.

PNEUMATIC HORNS AVVISATORI PNEUMATICI AVISADORES NEUMÁTICOS AVERTISSEURS PNEUMATIQUES PNEUMATISCHE HUPEN				Air consumption Consumo d'aria Consumo de aire Consommation d'air Luftverbrauch		Pressure Pressione Presión Pression Betriebsdruck		Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel		Frequency Frequenza Frecuencia Fréquence Frequenz		M O Q		Packaging	
				l/sec		kPa		dB(A) 2m		Hz		u.			
JERICHO															
	ELECTRICAL CONNECTION	PNEUMATIC CONNECTION	P/N												
	DIN + Briglia	LEGRIS Ø6mm	928047Z												
	TYCO + Briglia	LEGRIS Ø6mm	928048Z												
	DIN + Briglia	VOSS M16	928050Z												
	DIN + Briglia	M12	928051Z												
	DIN + Briglia	LEGRIS Ø8mm	928052Z												
				0,4	300 1000	118		380		13		R1			

Back-up Alarms

ELECTROPNEUMATIC HORNS AVVISATORI ELETTROPNEUMATICI AVISADORES ELECTROMAGNÉTICOS AVERTISSEURS ÉLECTROPNEUMATIQUES ELEKTROPNEUMATISCHE HUPEN		Voltage Voltaggio Voltaje Tension Spannung	Amp. Draw Assorbimento Amperios Consommation Stromaufnahme	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	M O Q	Packaging	
		V	A	dB(A) 2m	Hz	u.		
	BA BA97 COD. 923178 TYPE C ALARM		12 48	17	93 101	1300	18	I2
	BA107 COD. 923176 TYPE B ALARM		12 24	8	103 111	1300	18	I2
	BA BA87 12-80V COD. 923163 TYPE C ALARM		12 80	0,3	97	1270	18	G2
	BA BA87-112 ADAPTIVE COD. 923177 TYPE A-D ALARM			12 24	-	87 112 adaptive	1300	9
	BA MINI ALARM 97 COD. 923161			12	0,7	97	1700	18

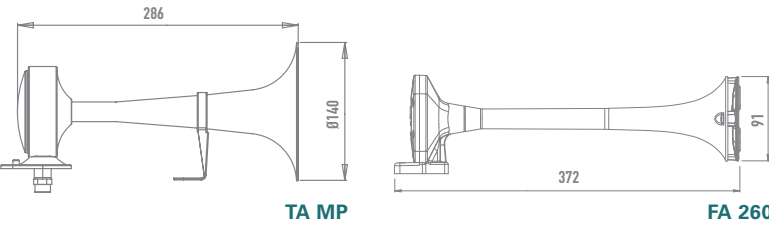
Type approval / Omologazione / Homologación / Homologation / Zulassung
Reg.28/Reg. 10 ECE



TA MP / FA 260

PNEUMATIC HORNS AVVISATORI PNEUMATICI AVISADORES NEUMÁTICOS AVERTISSEURS PNEUMATIQUES PNEUMATISCHE HUPEN		Air consumption Consumo d'aria Consumo de aire Consommation d'air Luftverbrauch	Pressure Pressione Presión Pression Betriebsdruck	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	M O Q	Packaging
		l/sec	kPa	dB(A) 2m	Hz	u.	
	Inox Steel	TA MP					
		TA MP COD. 920374	5,5	400 800	128	380	5
		FA 260					
		FA 260 COD. 921130	7	500 1000	117	260	6

Type approval / Omologazione / Homologación / Homologation / Zulassung
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ALA line

Electropneumatic horn ideal for installations on public transport vehicles.

Bocina electroneumática ideal para instalaciones en vehículos de transporte público.

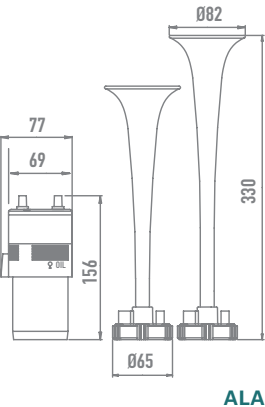
Avvisatore elettropneumatico ideale per installazioni su mezzi di trasporto pubblici di linea.

Avertisseur électropneumatique idéal pour installations sur moyens de transport public urbain.

Elektropneumatische Hupe, ideal für die Installation an öffentlichen Verkehrsmitteln.

ELECTROPNEUMATIC HORNS AVVISATORI ELETTROPNEUMATICI AVISADORES ELECTROMAGNÉTICOS AVERTISSEURS ÉLECTROPNEUMATIQUES ELEKTROPNEUMATISCHE HUPEN		Voltage Voltaggio Voltage Tension Spannung	Amp. Draw Assorbimento Amperios Consummation Stromaufnahme	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	M O Q	Packaging
		V	A	dB(A) 2m	Hz	u.	
	Steel/Aluminium	ALA					
	ALA 12V COD. 921997 PLASTIC	12	17	116	L = 390 H = 490	8	H
	ALA 24V COD. 921998 PLASTIC	24	8	116	L = 390 H = 490	8	H
	TA2/ALA COD. 920646 ONLY TRUMPETS	-	-	116	L = 390 H = 490	8	H3

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VEGA line

Electromagnetic steel trumpets for excellent audibility at sea. Available in two-tones and pairs.

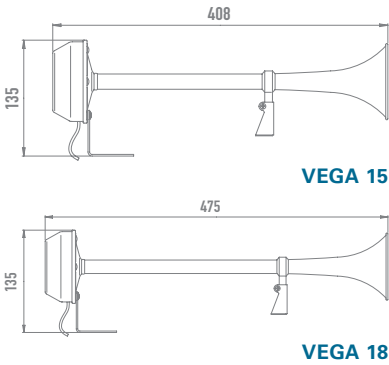
Tromba elettromagnetica in acciaio dall'ottima udibilità in mare. Disponibile in due tonalità ed in coppia.

Bocina electromagnética de acero, de óptima audibilidad en el mar. Disponible en dos tonalidades, singularmente o en parejas.

Trompe électromagnétique en acier, parfaite audibilité en mer. Disponible dans deux couleurs et en modèle double.

Elektromagnetische Hupe aus Stahl, die auf See besonders gut hörbar ist. Als Doppelhorn in zwei Farben erhältlich.

ELECTROMAGNETIC HORNS AVVISATORI ELETTROMAGNETICI AVISADORES ELECTROMAGNÉTICOS AVERTISSEURS ÉLECTROMAGNÉTIQUES ELEKTROMAGNETISCHE HUPEN		Voltage Voltaggio Voltaje Tension Spannung	Amp. Draw Assorbimento Amperios Consommation Stromaufnahme	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	M O Q	Packaging
		V	A	dB(A) 2m	Hz	u.	
	VEGA						
	VEGA 15 COD. 920333	12	6	117	370	6	F14
	VEGA 18 COD. 920334	12	6	117	310	6	F14
	VEGA DUAL						
	VEGA DUAL COD. 920993	24	6	120	L = 320 H = 370	6	F13



MARINE HORN line

Small electromagnetic emergency horn for retractable installation. Available in 5 colours.

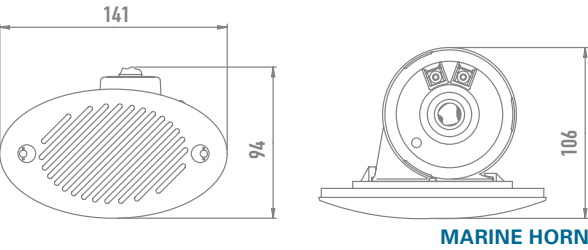
Avvisatore elettromagnetico di piccole dimensioni per installazione a scomparsa. Disponibile con griglia in 5 colorazioni.

Bocina electromagnética de dimensiones compactas para instalación retráctil. Disponibles con rejilla en 5 colores.

Avertisseur électromagnétique de petite taille pour installation encastrable. Disponible avec grille en 5 couleurs.

Kleine elektromagnetische Hupe für eine versenkbare Installation. Mit Gitter in 5 Farben erhältlich.

ELECTROMAGNETIC HORNS AVVISATORI ELETTROMAGNETICI AVISADORES ELECTROMAGNÉTICOS AVERTISSEURS ÉLECTROMAGNÉTIQUES ELEKTROMAGNETISCHE HUPEN		Voltage Voltaggio Voltaje Tension Spannung	Amp. Draw Assorbimento Amperios Consommation Stromaufnahme	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	M O Q	Packaging
		V	A	dB(A) 2m	Hz	u.	
	MARINE HORN						
	MARINE HORN BLACK - 2T COD. 920314	12	4,5	112	405	9	I6
	MARINE HORN PANAMA - 2T COD. 920323	12	4,5	112	405	9	I6
	MARINE HORN WHITE - 2T COD. 932216Z	12	4,5	112	405	4	G9
	MARINE HORN STEEL - 2T COD. 932215Z	12	4,5	112	405	4	G9



TA line

Electromagnetic steel trumpets for excellent audibility at sea. Available in two-tones and pairs.

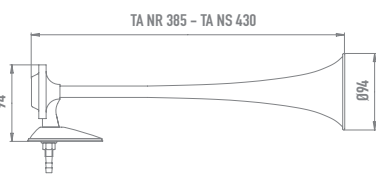
Bocina electromagnética de acero, de óptima audibilidad en el mar. Disponible en dos tonalidades, singularmente o en parejas.

Tromba elettromagnetica in acciaio dall'ottima udibilità in mare. Disponibile in due tonalità ed in coppia.

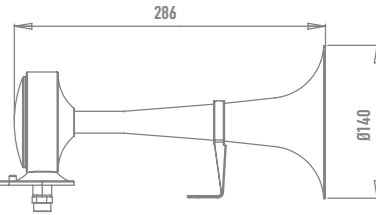
Trompe électromagnétique en acier, parfaite audibilité en mer. Disponible dans deux couleurs et en modèle double.

Elektromagnetische Hupe aus Stahl, die auf See besonders gut hörbar ist. Als Doppelhorn in zwei Farben erhältlich.

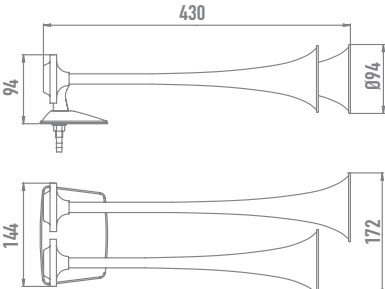
PNEUMATIC HORNS AVVISATORI PNEUMATICI AVISADORES NEUMÁTICOS AVERTISSEURS PNEUMATIQUES PNEUMATISCHE HUPEN		Air consumption Consumo d'aria Consumo de aire Consommation d'air Luftverbrauch	Pressure Pressione Presión Pression Betriebsdruck	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	M O Q	Packaging
		l/sec	kPa	dB(A) 2m	Hz	u.	
Inox Steel	NR/NS	1,2	100 400	120	380	6	F16
	TA/NR COD. 920310						
	TA/NS COD. 920311	1,2	100 400	320	380	6	F16
Inox Steel	DUAL	2,4	100 400	123	H = 380 L = 320	6	F13
Inox Steel	MP	5,5	400 800	128	380	5	F15



TA/NR - TA/NS



TA MP

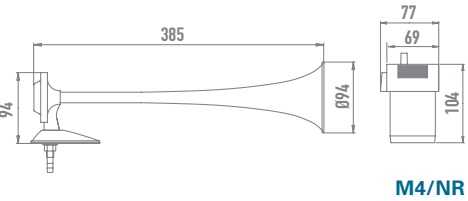


TA DUAL

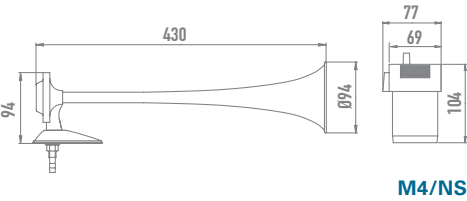


ELECTROPNEUMATIC HORNS AVVISATORI ELETTROPNEUMATICI AVISADORES ELECTROMAGNÉTICOS AVERTISSEURS ÉLECTROPNEUMATIQUES ELEKTROPNEUMATISCHE HUPEN

ELECTROPNEUMATIC HORNS AVISATORI ELETTROPNEUMATICI AVISADORES ELECTROMAGNÉTICOS AVERTISSEURS ÉLECTROPNEUMATIQUES ELEKTROPNEUMATISCHE HUPEN		Voltage Voltaggio Voltaje Tension Spannung	Amp. Draw Assorbimento Amperios Consommation Stromaufnahme	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	M O Q	Packaging
		V	A	dB(A) 2m	Hz	u.	
	ABS						
	M4						
	M4/NR 12V COD. 921993 INOX STEEL	12	17	114	380	6	F10
	M4/NR 24V COD. 921994 INOX STEEL	24	8	114	380	6	F10
	M4/NS 12V COD. 921995 INOX STEEL	12	17	114	320	6	F10
	M4/NS 24V COD. 921996 INOX STEEL	24	8	114	320	6	F10



M4/NR



M4/NS



Emergency

Fire Brigades
Police Forces
Ambulances

FIAMM
+ — — —

Diagram illustrating the components of the alarm system:

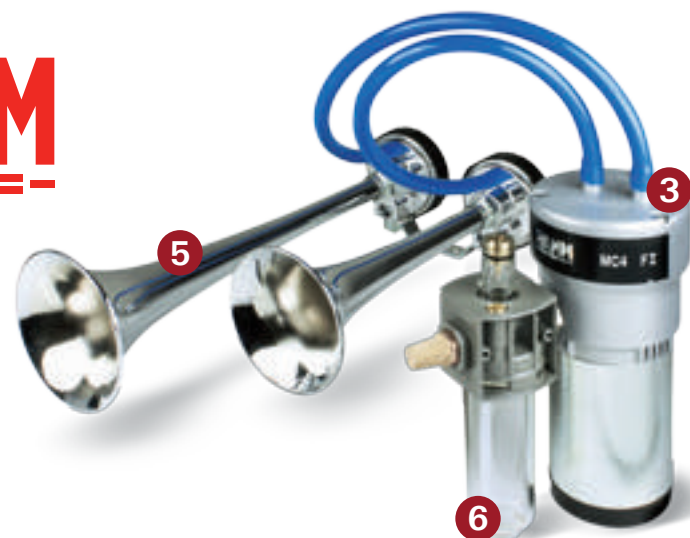
- 3: Alarm control unit
- 5: Two black square speakers
- 6: Multi-colored wiring harness connector

-  Police Forces
Forze dell'ordine
Fuerzas de Policía
Forces de Police
Polizeikräfte

- 6** >> Complete your system with the mandatory connection cable

28

FIAMM

MC4
System Choice

1 >> Choose your country

2 >> Choose your special force:

Fire Brigades
Vigili del fuoco
Bomberos
Sapeurs-Pompiers
FeuerwehrAmbulance
Ambulanza
Ambulancia
KrankenwagenPolice Forces
Forze dell'ordine
Fuerzas de Policia
Forces de Police
Polizeikräfte

3 >> Read the code of your compressor



4 >> Choose your vehicle type [CAR | VAN | TRUCK]

5 >> Read on the left the code of your trumpets



6 >> Lubricator included in the compressor code



		Italy			Netherlands		Belgium	United Kingdom		Austria		Germany		Switzerland		Spain		International		✓ = included • = optional SPOILER COD. 920618	
		MC4 FDS 12V COD. 921084	MC4 FVA 12V COD. 921077	MC4 FVA 24V COD. 921078	MC4 FALG 12V COD. 921121	MC4 FALG 24V COD. 921122	MC4 FI 24V COD. 921124	MC4 FI 12V COD. 921123	MC4 FI 24V COD. 921124	MC4 FD 12V COD. 921116	MC4 FA 12V COD. 921118	MC4 FA 24V COD. 921119	MC4 FD 12V COD. 921116	MC4 FD 24V COD. 921117	MC4 FD 12V COD. 921116	MC4 FD 24V COD. 921117	MC4 FD 12V COD. 921116	MC4 FD 24V COD. 921117	MC4 FI 12V COD. 921123	MC4 FI 24V COD. 921124	
4	TA/2 906-V COD. 920392	CAR VAN 1 compressor + 1 set of trumpets								CAR VAN 1 compressor + 1 set of trumpets			CAR VAN 1 compressor + 1 set of trumpets	TRUCK 1 compressor + 1 set of trumpets	CAR VAN 1 compressor + 1 set of trumpets	TRUCK 1 compressor + 1 set of trumpets			CAR VAN 1 compressor + 1 set of trumpets	TRUCK 1 compressor + 1 set of trumpets	✓
	TA/2 906-C COD. 920393	CAR VAN 1 compressor + 1 set of trumpets								CAR VAN 1 compressor + 1 set of trumpets			CAR VAN 1 compressor + 1 set of trumpets	TRUCK 1 compressor + 1 set of trumpets		TRUCK 1 compressor + 1 set of trumpets			CAR VAN 1 compressor + 1 set of trumpets	TRUCK 1 compressor + 1 set of trumpets	✓
	TA/2 VA-V COD. 920395		CAR VAN 1 compressor + 1 set of trumpets	TRUCK 1 compressor + 1 set of trumpets																	✓
	TA/2 GA-V COD. 920615				CAR VAN 1 compressor + 1 set of trumpets	TRUCK 1 compressor + 1 set of trumpets															•
	TA/2 GB-V COD. 920616				CAR VAN 1 compressor + 1 set of trumpets	TRUCK 1 compressor + 1 set of trumpets															•
	TA/2 BL-C COD. 920629						TRUCK 1 compressor + 1 set of trumpets	CAR VAN 1 compressor + 1 set of trumpets	TRUCK 1 compressor + 1 set of trumpets												•
	TA/2 BL-V COD. 920396						TRUCK 1 compressor + 1 set of trumpets	CAR VAN 1 compressor + 1 set of trumpets	TRUCK 1 compressor + 1 set of trumpets												•
	TA/2 DE-B COD. 920397										CAR VAN 1 compressor + 1 set of trumpets	TRUCK 1 compressor + 1 set of trumpets									•
	TA/4 906-C COD. 920394													CAR VAN 1 compressor + 1 set of trumpets	TRUCK 1 compressor + 1 set of trumpets				CAR VAN 1 compressor + 1 set of trumpets	TRUCK 1 compressor + 1 set of trumpets	✓
	TA/2 LE-V COD. 920400																	CAR VAN 1 compressor + 1 set of trumpets	TRUCK 1 compressor + 1 set of trumpets		
TA/4 906-C AUSTRIA COD. 920649											CAR VAN 1 compressor + 1 set of trumpets	TRUCK 1 compressor + 1 set of trumpets									
6	LUBRICATOR COD. 920617	ALWAYS INCLUDED WITH THE COMPRESSOR, IN CASE ALSO AVAILABLE AS A SPARE PART																	ALWAYS INCLUDED WITH THE COMPRESSOR, IN CASE ALSO AVAILABLE AS A SPARE PART		

FIAMM

PS20
System Choice

1 >> Choose your country

2 >> Choose your special force:



Fire Brigades
Vigili del fuoco
Bomberos
Sapeurs-Pompiers
Feuerwehr



Ambulance
Ambulanza
Ambulancia
Ambulance
Krankenwagen



Police Forces
Forze dell'ordine
Fuerzas de Policia
Forces de Police
Polizeikräfte

3 >> Read the code of your electronic control unit



4 >> Choose your vehicle type [CAR | VAN | TRUCK]

5 >> Read on the left the code of your trumpets



		Italy			Netherlands			Belgium	United Kingdom		Austria				Germany		Switzerland		International		✓ = included • = optional							
1	2	3																										
3			PS20 - POL - I 12V COD. 951081	PS20 AMB/POMP - I 12V COD. 951082	PS20 AMB/POMP - I 24V COD. 951083		PS20 - HI-LO 12V COD. 951079	PS20 - EMERGENCY NETHERLANDS - 12V COD. 951096	PS20 - EMERGENCY NETHERLANDS - 24V COD. 951097		PS20 - HI-LO 12V COD. 951079	PS20 - HI-LO 24V COD. 951080		PS20 EMER - D 12V COD. 951084	PS20 - FEUER -A 12V COD. 951087	PS20 - FEUER -A 24V COD. 951088	PS20 - FEUER -A 24V COD. 951086		PS20 EMER - D 12V COD. 951084	PS20 EMER - D 24V COD. 951085		PS20 EMER - D 12V COD. 951084	PS20 EMER - D 24V COD. 951085		PS20 - HI-LO 12V COD. 951079	PS20 - HI-LO 24V COD. 951080	SPOILER COD. 920618	
4			TA/2 906-V COD. 920392	CAR VAN 1 electr. unit + 1 set of trumpets										CAR VAN 1 electr. unit + 1 set of trumpets					CAR VAN 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets	CAR VAN 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets	CAR VAN 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets	CAR VAN TRUCK 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets	✓	
4			TA/2 906-C COD. 920393	CAR VAN 1 electr. unit + 1 set of trumpets										CAR VAN 1 electr. unit + 1 set of trumpets					CAR VAN 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets	CAR VAN 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets	CAR VAN TRUCK 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets	CAR VAN TRUCK 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets	✓	
4			TA/2 VA-V COD. 920395		CAR VAN 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets																						✓
4			TA/2 BL-C COD. 920629								TRUCK 1 electr. unit + 1 set of trumpets	CAR VAN 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets															•
5			TA/2 BL-V COD. 920396								TRUCK 1 electr. unit + 1 set of trumpets	CAR VAN 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets															•
5			TA/2 DE-B COD. 920397												CAR VAN 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets											•
5			TA/4 906-C COD. 920394																	CAR VAN 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets	CAR VAN 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets	CAR VAN TRUCK 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets	CAR VAN TRUCK 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets	✓
5			TA/4 NL-C+SPOILER COD. 920647					CAR VAN TRUCK 1 electr. unit + 1 set of trumpets	CAR VAN TRUCK 1 electr. unit + 1 set of trumpets	CAR VAN TRUCK 1 electr. unit + 1 set of trumpets																		
5			TA/4 906-C AUSTRIA COD. 920649												CAR VAN 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets	TRUCK 1 electr. unit + 1 set of trumpets											

PS10 System

Electronic priority emergency horn for continuous service, ensuring a powerful, clean sound. Systems equipped with a control unit with degree of protection IP67 and Loudspeaker IP 66. The PS10 system, thanks to its flexibility, complies with national standard requirements and can produce several sounds and is therefore easily customisable.

Avvisatore prioritario elettronico per servizio continuo che garantisce un suono potente e pulito. Sistema dotato di centralina con grado di protezione IP67 e di Altoparlanti IP 66. Il sistema PS10, grazie alla sua flessibilità, risponde alle normative nazionali richieste e può produrre più suoni, per cui è facilmente customizzabile.

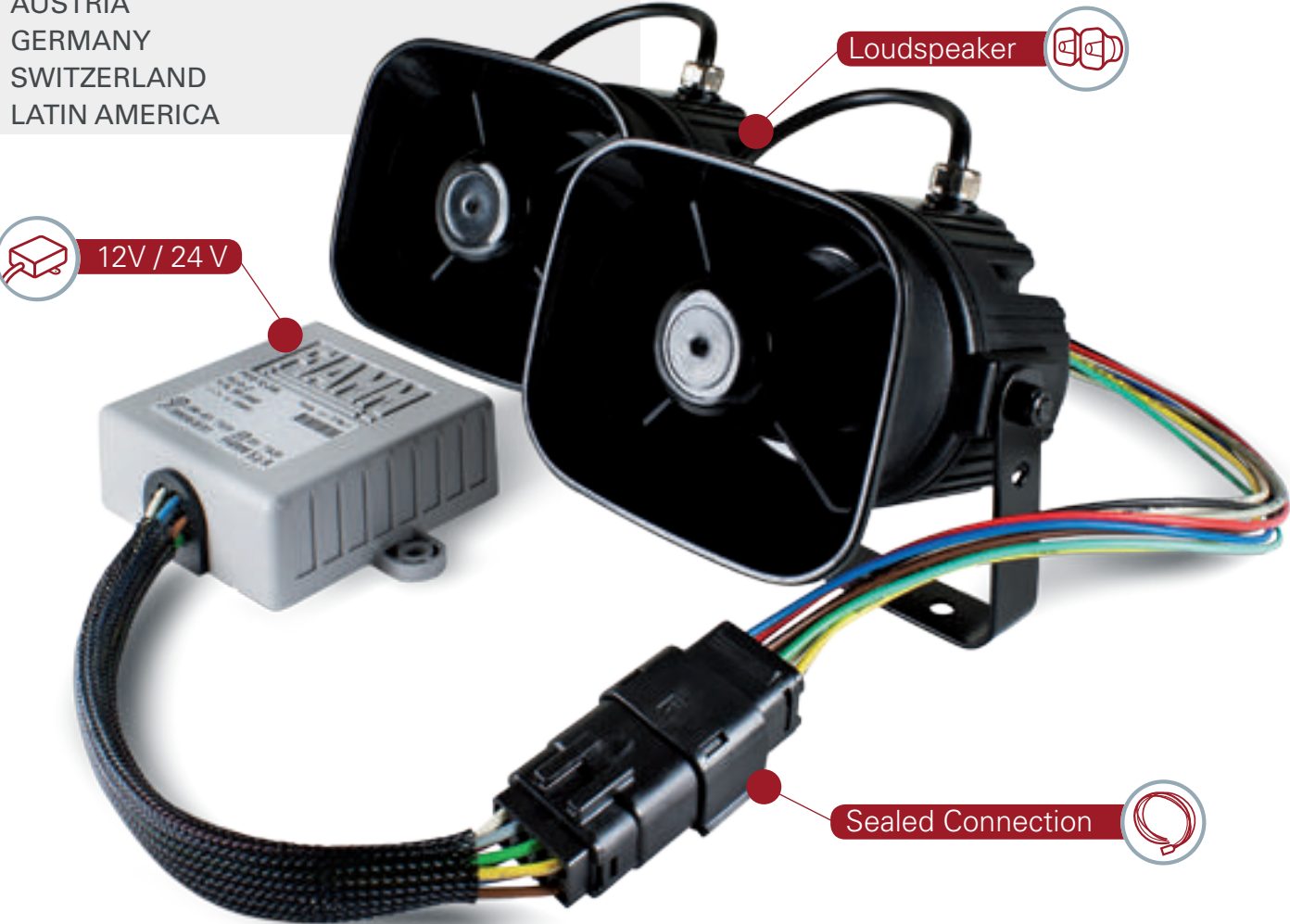
INTERNATIONAL Hi-Lo
AMERICAN SOUND Wail /Yelp
ITALY
FRANCE
NETHERLANDS
BELGIUM
UK
AUSTRIA
GERMANY
SWITZERLAND
LATIN AMERICA



Avisador prioritario electrónico para servicio continuo que garantiza un sonido potente y limpio. Sistema dotado de unidad de control con grado de protección IP67 y de altavoces IP66. El sistema PS10, gracias a su flexibilidad, cumple con las normas nacionales y puede reproducir tonalidades diferentes, entonces es fácilmente personalizable.

Avertisseur prioritaire électronique pour service continu qui garantit un son puissant et net. Système pourvu de centrale avec degré de protection IP67 et de haut-parleurs IP 66. Le système PS10, grâce à sa flexibilité, répond aux normes nationales exigées et peut produire plusieurs sons, c'est pourquoi il est facilement adaptable.

Bevorrechtigte elektronische Hupe für den Dauerbetrieb. Sie garantiert einen starken und sauberen Klang. System mit Steuereinheit, Schutzgrad IP67 und Lautsprechern IP66. Das System PS10 entspricht dank seiner Flexibilität den national geforderten Richtlinien und kann mehrere Klänge erzeugen, weshalb es sich leicht der jeweiligen Anwendung anpassen lässt.



ELECTRONIC EMERGENCY HORNS
AVVISATORI ELETTRONICI DI EMERGENZA
AVISADORES ELECTRÓNICOS DE EMERGENCIA
AVERTISSEURS ÉLECTRONIQUES
ELEKTRONISCHE HUPEN



Flame retardant PBT	PS10						
PS10 - AMB-POMP-I COD. 951001	12 24	3,5 1,75	L = 392 H = 660	-	Italy	8	S
PS10 - AMB-POMP-WY-I COD. 951062	12 24	3,5 1,75	L = 392 H = 523	Wail/Yelp	Italy	8	S
PS10 - POL-I COD. 951013	12 24	3,5 1,75	L = 466 H = 622	-	Italy	8	S
PS10 - AMB-F COD. 951004	12 24	3,5 1,75	L = 420 H = 516	-	France	8	S
PS10 - UMH-F COD. 951006	12 24	3,5 1,75	L = 435 H = 651	Day/Night	France	8	S
PS10 - AMB-UMH-F COD. 951059	12 24	3,5 1,75	-	Ambulance UMH Day/Night	France	8	S
PS10 - GEN-F COD. 951007	12 24	3,5 1,75	L = 435 H = 732	-	France	8	S
PS10 - POL-F COD. 951008	12 24	3,5 1,75	L = 435 H = 580	Day/Night	France	8	S
PS10 - SPO-F COD. 951005	12 24	3,5 1,75	L = 435 H = 488	-	France	8	S
PS10 - SPO-F 24V COD. 951023 SPECIAL FOR 1 LOUDSPEAKER	12 24	1,75	L = 435 H = 488	-	France	8	S
PS10 - EMER- N COD. 951028	12 24	3,5 1,75	L = 375 H = 500	Fast/Slow	Netherlands	8	S
PS10-EMER-N SLOW COD. 951089	12 24	3,5 1,75	L = 360 H = 480	Fast/Slow	Netherlands	8	S

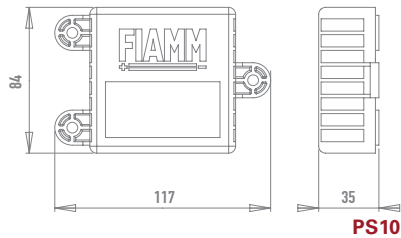


PS10 System

ELECTRONIC EMERGENCY HORNS
AVVISATORI ELETTRONICI DI EMERGENZA
AVISADORES ELECTRÓNICOS DE EMERGENCIA
AVERTISSEURS ÉLECTRONIQUES
ELEKTRONISCHE HUPEN

	Voltage Voltaggio Voltaje Tension Spannung	Amp. Draw Assorbimento Amperios Consummation Stromaufnahme	Frequency Frequenza Frecuencia Fréquence Frequenz	Option	Country	M O Q	Packaging
	V	A	Hz				u.
Flame retardant PBT							
 PS10 PS10 - EMER-B COD. 951078	12 24	3,5 1,75	L = 440 H = 495	Day/Night	Belgium	8	  
PS10-SP0-B NIGHT COD. 951091	12 24	3,5 1,75	L = 440 H = 495	-	Belgium	8	
 PS10 - EMER-UK COD. 951035	12 24	3,5 1,75	L = 440 H = 495	-	United Kingdom	8	  
PS10 - EMER-WY-UK COD. 951034	12 24	3,5 1,75	L = 440 H = 495	Wail/Yelp	United Kingdom	8	  
 PS10 - AMB-A COD. 951046	12 24	3,5 1,75	L = 450 H = 600	-	Austria	8	
PS10 - FEUER-A COD. 951064	12 24	3,5 1,75	L = 392 H = 523	-	Austria	8	
 PS10 - EMER-D COD. 951060	12 24	3,5 1,75	L = 430 H = 570	Stadt/Land	Germany Switzerland	8	  
 PS10 - USSOUND COD. 951061 WAIL/YELP	12 24	3,5 1,75	L = 430 H = 570	-	Latin America		  
 PS10 - USSOUND-WY COD. 951063 HI-LO	12 24	3,5 1,75	L = 560 H = 650	Wail/Yelp	International USA		  

Type approval / Omologazione / Homologación / Homologation / Zulassung
Reg. 10 / National homologation if required



PS10



Loudspeakers Ferrite Magnet

The PS10 system offers 7 different types of loudspeakers to permit the best installation suitable for different needs. There are loudspeakers in ferrite and neodymium, available in various dimensions for internal or external vehicle installation.

Il sistema PS10 dispone di 7 diverse tipologie di altoparlanti per permettere un'installazione adatta alle diverse esigenze. Vi sono altoparlanti in ferrite e in neodimio, disponibili in diverse dimensioni per installazioni interne o esterne al veicolo.

El sistema PS10 dispone de 7 tipos diferentes de altavoces para una instalación apropiada a las diferentes exigencias. Hay altavoces de ferrita y de neodimio, disponibles en diferentes dimensiones para instalaciones internas o externas al vehículo.

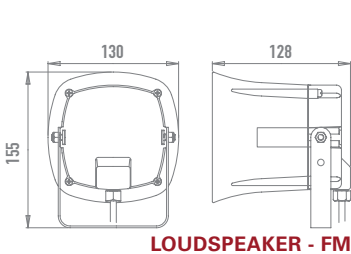
Le système PS10 dispose de 7 typologies de haut-parleurs différentes, afin de permettre une installation adaptée aux diverses exigences. Il y a des haut-parleurs en ferrite et en néodyme, disponibles dans différentes dimensions pour des installations internes ou externes au véhicule.

Das System PS10 verfügt über 7 unterschiedliche Lautsprechertypen, um eine den verschiedenen Anforderungen entsprechende Installation zu ermöglichen. Es gibt Lautsprecher aus Ferrit und aus Neodym, die in verschiedenen Größen zur Installation im Innern oder außen am Fahrzeug erhältlich sind.

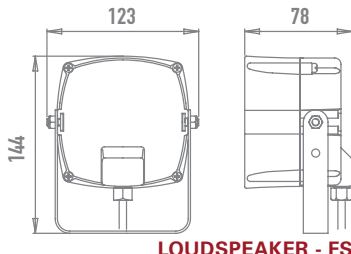
LOUDSPEAKERS
ALTOPARLANTI
ALTAVOCES
HAUT-PARLEURS
LAUTSPRECHER

	Voltage Voltaggio Voltaje Tension Spannung	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Nominal power Potenza lavoro Potencia nominal Puissance nominale Betriebleistung	Peak power Potenza di punta Potencia de pico Puissance de crête Maximale Leistung	Impedance Impedenza Impedancia Impédance Inpedanz	M O Q	Packaging
	V	dB(A) 2m	W	W	Ohm	u.	
ABS / Ferrite Magnet							
 FM LOUDSPEAKER -FM COD. 951052	12 24	114	25	40	4	8	   Degree of protection: IP66
ABS / Ferrite Magnet							
 FS LOUDSPEAKER -FS COD. 951053	12 24	113	25	40	4	8	   Degree of protection: IP56

FERRITE MAGNET



LOUDSPEAKER - FM



LOUDSPEAKER - FS





KIT Italia

Loudspeakers Neodymium Magnet

Loudspeakers

Altoparlanti

Altavoces

Haut-parleurs

Lautsprecher

Voltage

Voltaggio

Voltaje

Tension

Spannung

Decibel

Liv. sonoro

Nivel sonoro

Décibels

Schallpegel

Nominal power

Potenza lavoro

Potencia nominal

Puissance nominale

Betriebleistung

Peak power

Potenza di punta

Potencia de pico

Puissance de crête

Maximale Leistung

Impedance

Impedenza

Impedancia

Impédance

Inpedanz

M

O

Q

Packaging

V

dB(A) 2m

W

W

Ohm

u.

ABS / Neodymium Magnet

NSC



Degree of protection: IP66



LOUDSPEAKER -NSC

COD. 951055

12

24

113

20

30

4

8

G5

ABS / Neodymium Magnet

NS



Degree of protection: IP66



LOUDSPEAKER -NS

COD. 951056

12

24

113

20

30

4

4

G9

ABS / Neodymium Magnet

NS



Degree of protection: IP66



LOUDSPEAKER 50W

COD. 951110

12

24

120

50

60

4

8

G5

ABS



Degree of protection: IP67



CONNECTION CABLE PS10

COD. 951057

-

4

4

I9

MC4 System

High power, directional Electropneumatic emergency horn systems to be used as primary signals on temporary exit vehicles or as secondary signals to successfully overcome difficult traffic situations or for dangerous crossroads.

Sistema di avvisatore elettropneumatico dal suono potente e direzionale utilizzabile come primo avvisatore in mezzi di uscita temporanea o come avvisatore secondario per superare in sicurezza le situazioni di traffico difficili o per gli incroci pericolosi.

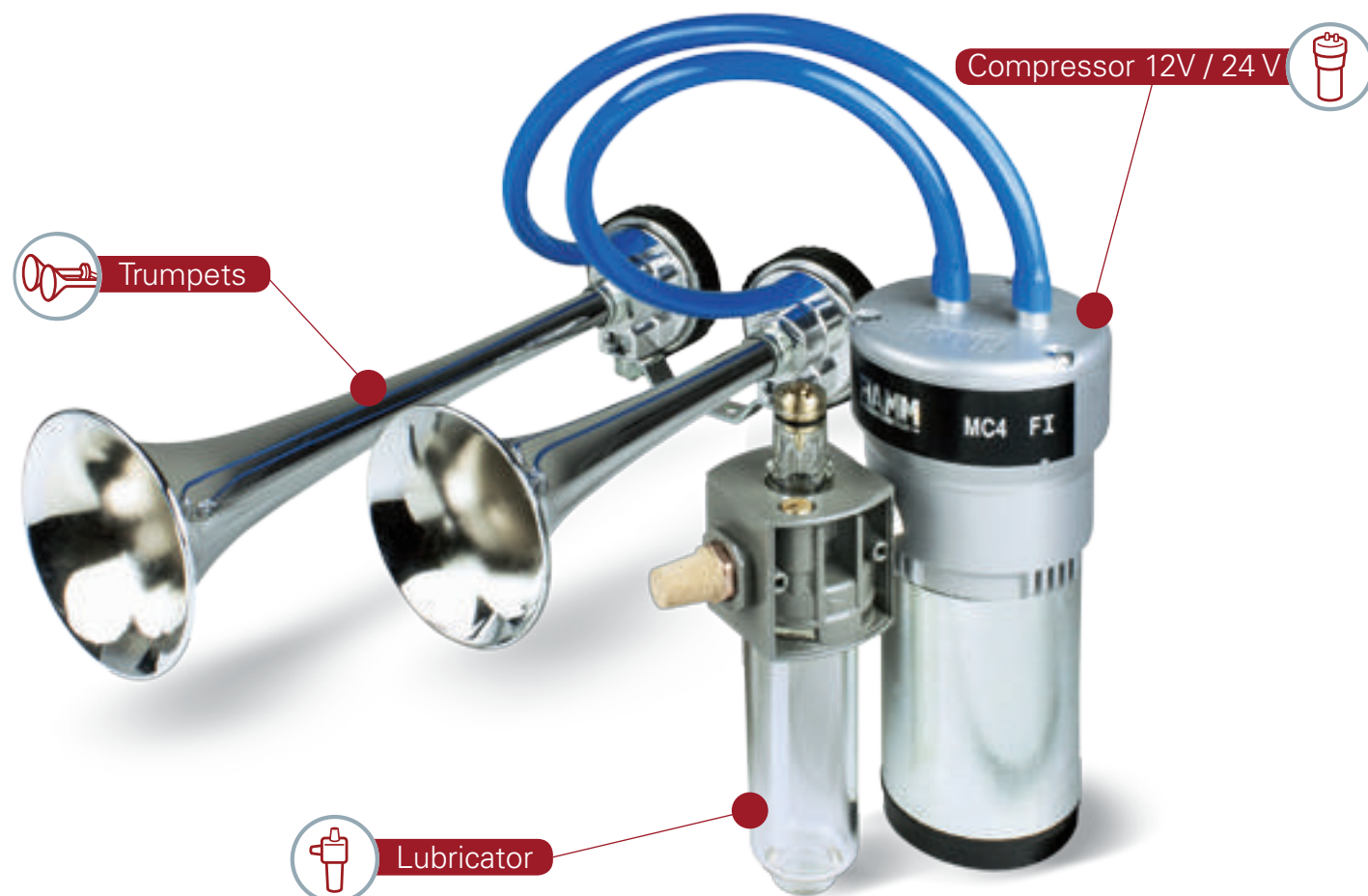
INTERNATIONAL Hi-Lo
ITALY
NETHERLANDS
BELGIUM
UK
AUSTRIA
GERMANY
SWITZERLAND



Sistema prioritario electroneumático de sonido potente y direccional para vehículos de salida temporal o utilizable como avisador secundario para superar en seguridad las situaciones de tráfico difíciles o para los cruces más peligrosos.

Système d'avertisseur électropneumatique, son puissant et directionnel utilisable ponctuellement ou comme avertisseur secondaire pour affronter en toute sécurité les situations de circulation difficiles.

Elektropneumatische Signaleinrichtung mit starkem und gerichtetem Klang. Als erste Signaleinrichtung in Fahrzeugen, die zeitweise ausfahren, oder als sekundäre Signaleinrichtung für die sichere Überwindung schwieriger Verkehrssituationen oder gefährlicher Kreuzungen einsetzbar.



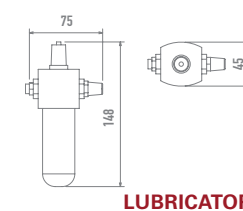
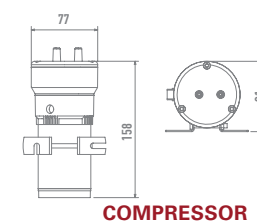
Sounds / Suoni / Sonidos / Sons / Klänge
www.fiammcomponents.com/Horns

COMPRESSORS COMPRESSORI COMPRESORES COMPRESSEURS GEBLÄSE

Steel/Aluminium



	Voltage Voltaggio Voltaje Tension Spannung	Amp. Draw Assorbimento Amperios Consummation Stromaufnahme	Country	Type approval	M O Q	Packaging
	V	A			u.	
 MC4 FDS 12V + LUBRICATOR COD. 921084	12	17	Italy	National/ Reg.10	4	I11
	12	17	Italy	National/ Reg.10	4	I11
	24	8	Italy	National/ Reg.10	4	I11
	12	17	Netherlands	Reg. 10 ECE	4	I11
	24	8	Netherlands	Reg. 10 ECE	4	I11
	24	8	Belgium, UK International	Reg. 10 ECE	4	I11
	12	17	UK International	Reg. 10 ECE	4	I11
	12	17	Austria	Reg. 10 ECE	4	I11
	12	17	Austria	Reg. 10 ECE	4	I11
	24	8	Austria	Reg. 10 ECE	4	I11
	12	17	Germany Switzerland	National/ Reg.10	4	I11
	24	8	Germany Switzerland	National/ Reg.10	4	I11



PS20 System

Through its powerful and directional sound, the priority system PS20 maximises security and sound localization of emergency vehicles. A pneumatic horn guided by an electronic module for continuous service, that guarantees a high duration.

Il sistema prioritario PS20, dal suono potente e direzionale, massimizza la sicurezza e l'identificazione dei mezzi d'emergenza. Sirena pneumatica pilotata da una centralina elettronica per servizio continuo, che garantisce un'elevata durata.

INTERNATIONAL Hi-Lo

ITALY
BELGIUM
UK
AUSTRIA
GERMANY
SWITZERLAND
SPAIN



El sistema prioritario PS20 maximiza la seguridad y la localización del sonido de los vehículos de emergencia. Avisador neumático guiado por un módulo electrónico para servicio continuo, que garantiza una duración elevada.

Le système prioritaire PS20 maximise la sécurité et la localisation du son des véhicules prioritaires. Il s'agit d'un avertisseur pneumatique guidé par un module électronique pour service continu, qui garantit une durée élevée.

Das bevorrechtigte System PS20 maximiert durch ihren starken und gerichteten Klang die Sicherheit und die Schalllokalisierung der Notdienstfahrzeuge. Pneumatische, von einem elektronischen Modul geführte Hupe für den Dauerbetrieb mit erhöhter Dauer.

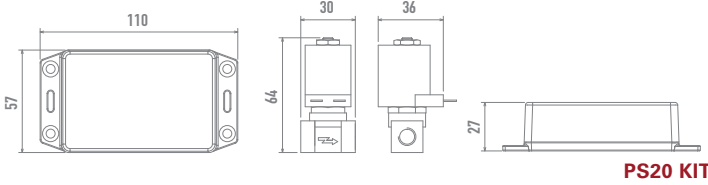


Sounds / Suoni / Sonidos / Sons / Klänge
www.fiammcomponents.com/Horns

ELECTRONIC EMERGENCY HORNS
AVVISATORI ELETTRONICI DI EMERGENZA
AVISADORES ELECTRÓNICOS DE EMERGENCIA
AVERTISSEURS ÉLECTRONIQUES
ELEKTRONISCHE HUPEN



	Voltage Voltaggio Voltage Tension Spannung	Amp. Draw Assorbimento Amperios Consommation Stromaufnahme	Compressed air source	Country	M O Q	Packaging
	V	A			U.	
Flame retardant ABS Brass KIT OF MODULE + 2 ELECTROVALVES PS20 PS20 - POL - I COD. 951081	12	1,5	On-Board air system Dedicated compressor	Italy	4	I4
PS20 - AMB/POMP - I COD. 951082	12	1,5	On-Board air system Dedicated compressor	Italy	4	I4
PS20 - AMB/POMP - I COD. 951083	24	0,7	On-Board air system Dedicated compressor	Italy	4	I4
PS20 - HI-LO 24V COD. 951080	24	0,7	On-Board air system Dedicated compressor	Belgium, UK International Hi-Lo	4	I4
PS20 - HI-LO 12 V COD. 951079	12	1,5	On-Board air system Dedicated compressor	Netherlands, UK International Hi-Lo	4	I4
PS20 - EMER - D 12 V COD. 951084	12	1,5	On-Board air system Dedicated compressor	Germany Switzerland	4	I4
PS20 - EMER - D 12 V COD. 951084	12	1,5	On-Board air system Dedicated compressor	Austria	4	I4
PS20 - EMER - D 24 V COD. 951085	24	0,7	On-Board air system Dedicated compressor	Germany Switzerland	4	I4
PS20 - FEUER - A COD. 951087 KIT OF MODULE + 3 ELECTROVALVES	12	1,5	Dedicated compressor	Austria	8	S
PS20 - FEUER - A COD. 951088 KIT OF MODULE + 3 ELECTROVALVES	24	0,7	Dedicated compressor	Austria	8	S
PS20 - FEUER - A COD. 951086	24	0,7	On-Board air system	Austria	8	S
PS20 - EMERGENCY NETHERLANDS - 12V COD. 951096	12	1,5	On-Board air system Dedicated compressor	Netherlands	4	I4
PS20 - EMERGENCY NETHERLANDS - 24V COD. 951097	24	0,7	On-Board air system Dedicated compressor	Netherlands	4	I4



Type approval / Omologazione / Homologación / Homologation / Zulassung
Reg. 10 / National homologation if required



Trumpets

The trumpets on the MC4 and PS20 Systems, thanks to the chrome and coated versions, are easily installed both inside and outside vehicles. The frequency range covers various national standards. The 4-tone version offers maximum audibility and a pleasant sound.

Le trombe dei sistemi MC4 e PS20, grazie alle versioni cromate e verniciate si installano facilmente sia all'interno che all'esterno del veicolo. La gamma di frequenze copre le diverse normative nazionali. La versione a 4 toni rappresenta il massimo dell'udibilità e della piacevolezza del suono.

Las bocinas de los sistemas prioritarios MC4 y PS20, disponibles en versión cromada y pintada, se instalan fácilmente tanto dentro como fuera del vehículo. La gama de frecuencias cubre las diferentes normativas nacionales. La versión de 4 tonos se caracteriza por máxima audibilidad y un sonido agradable.

Les trompes des systèmes MC4 et PS20 grâce aux versions chromées et peintes s'installent facilement aussi bien à l'intérieur qu'à l'extérieur du véhicule. La gamme de fréquences répond aux différentes normes nationales. La version à 4 trompes et tons représente le maximum d'audibilité et du plaisir du son.

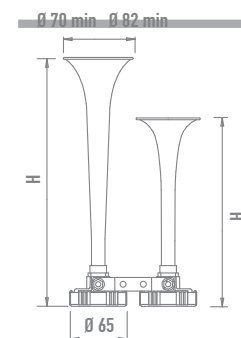
Die Hörner der MC4- und PS20-Systeme lassen sich dank ihrer Ausführung aus Chrom und Lack problemlos im Innern und außen am Fahrzeug installieren. Der Frequenzbereich deckt die unterschiedlichen nationalen Vorschriften. Die 4-Ton-Version bietet maximale Hörsamkeit und einen angenehmen Klang.

TRUMPETS TROMBE BOCINAS TROMPES HÖRNER

Metal	TA SET OF 2 TRUMPETS	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	Country	H	M O Q	Packaging
		dB(A) 2m	Hz		mm	u.	
	 TA/2 906-V+SPOILER COD. 920392	117	L = 466 H = 622	Italy	286 210	8	H1
	 TA/2 906-V+SPOILER COD. 920392	117	L = 466 H = 622	Austria	286 210	8	H1
	 TA/2 906-V+SPOILER COD. 920392	117	L = 466 H = 622	Germany, Switzerland International	286 210	8	H1
	 TA/2 906-C+SPOILER COD. 920393	117	L = 466 H = 622	Italy	286 210	8	H1
	 TA/2 906-C+SPOILER COD. 920393	117	L = 466 H = 622	Austria	286 210	8	H1
	 TA/2 906-C+SPOILER COD. 920393	117	L = 466 H = 622	Germany, Switzerland International	286 210	8	H1
	 TA/2 VA-V+SPOILER COD. 920395	117	L = 392 H = 660	Italy	329 199	8	H1
	 TA/2 GA-V COD. 920615	117	L = 494 H = 660	Netherlands	274 199	8	H1
	 TA/2 GB-V COD. 920616	117	L = 440 H = 587	Netherlands	297 239	8	H1

TRUMPETS TROMBE BOCINAS TROMPES HÖRNER

Metal	TA SET OF 2 TRUMPETS	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	Country	H	M O Q	Packaging
		dB(A) 2m	Hz		mm	u.	
	 TA/4 NL-C+SPOILER COD. 920647 SET OF 4 TRUMPETS	117	L = 375 - 400 H = 485 - 500	Netherlands	275 - 283 374 - 389	3	F3
	 TA/2 BL-C COD. 920629	117	L = 440 H = 494	Belgium	297 274	8	H1
	 TA/2 BL-C COD. 920629	117	L = 440 H = 494	UK	297 274	8	H1
	 TA/2 BL-V COD. 920396	117	L = 440 H = 494	Belgium	297 274	8	H1
	 TA/2 BL-V COD. 920396	117	L = 440 H = 494	UK	297 274	8	H1
	 TA/2 DE-B COD. 920397	117	L = 392 H = 523	Austria	329 262	8	H1
	 TA/4 906-C AUSTRIA COD. 920649	117	L = 375 - 388 H = 511 - 519	Austria	332 - 328 261 - 259	4	H2
	 TA/4 906-C+SPOILER COD. 920394	117	L = 435 - 450 H = 580 - 600	Germany, Switzerland International	297 - 289 223 - 214	4	H2
	 TA/2 LE-V COD. 920400	117	L = 466 H = 544	Spain	286 251	8	H1
	 SPOILER TA COD. 920618 ONLY SPOILER	-	-	All	-	8	S5



TA





Accessories

Adapters

ADAPTERS WITH ORIGINAL EQUIPMENT CONNECTOR
ADATTATORI CON CONNETTORI DI PRIMO IMPIANTO
ADAPTADORES CON CONECTOR DE EQUIPO ORIGINAL
ADAPTATEURS AVEC CONNECTEUR DE PREMIÈRE INSTALLATION
ADAPTER MIT ERSTAUSRÜSTER-ANSCHLUSS

Voltage Voltaggio Voltaje Tension Spannung	Suitable for Adatto per Adecuado para Approprié pour Geeignet für	M O Q	Packaging
V		u.	

For 2 terminals connection



ADAPTER PACKARD
COD. 920316
KIT OF 3 PCS

IVECO / MERCEDES / OPEL
RENAULT / VOLKSWAGEN

9

S2

ADAPTER USCAR
COD. 920317
KIT OF 3 PCS

ALFAROMEО / FERRARI / FIATFORD
HOLDEN / JAGUAR LANDROVER
LANCIA / OPEL VAUXALL / VOLVO

9

S2

ADAPTER JPT
COD. 920318
KIT OF 3 PCS

ALFAROMEО / DACIA / FORD
LANDROVER / MASERATI
RENAULT / VOLVO

9

S2

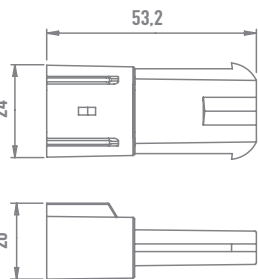
ADAPTER SICMA II
COD. 920319
KIT OF 3 PCS

CITROEN / PEUGEOT

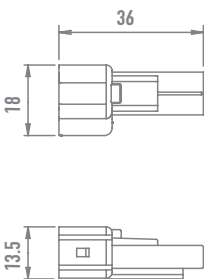
9

S2

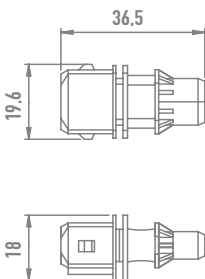
Relays available in 12V version to complete the electrical circuit
See pag.60



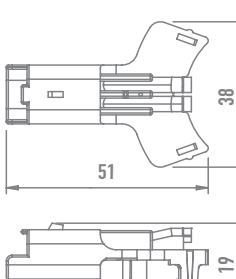
ADAPTER PACKARD



ADAPTER USCAR



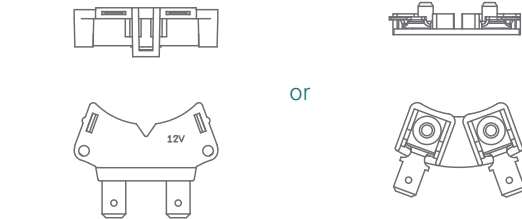
ADAPTER JPT



ADAPTER SICMA II

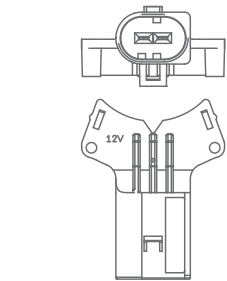
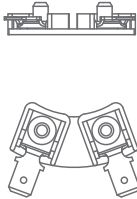


Connectors

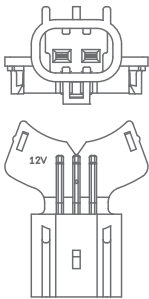


2T

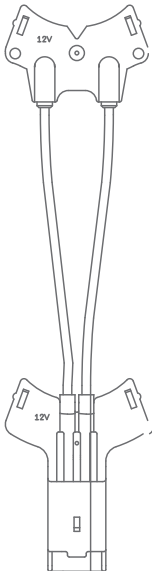
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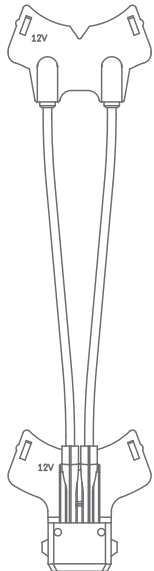
VDA



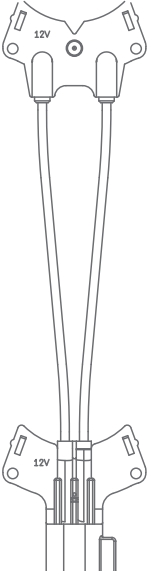
PACKARD



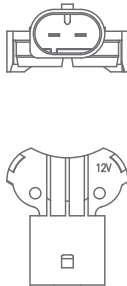
JUMPER SICMA II



JUMPER JPT



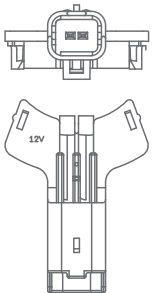
JUMPER USCAR



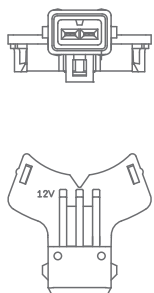
ELO POWER



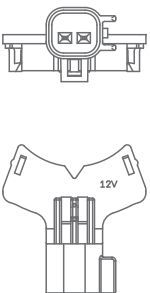
ELO STECKER



SICMA II



JPT



USCAR

M4 line / MC4 line / MC4 + line

New generation, more compact, more powerful and versatile compressors. Available models are possible, from the simplest version M4, to the more powerful compressor MC4+ for more challenging applications. The MC4+ can be also used with the lubricator.

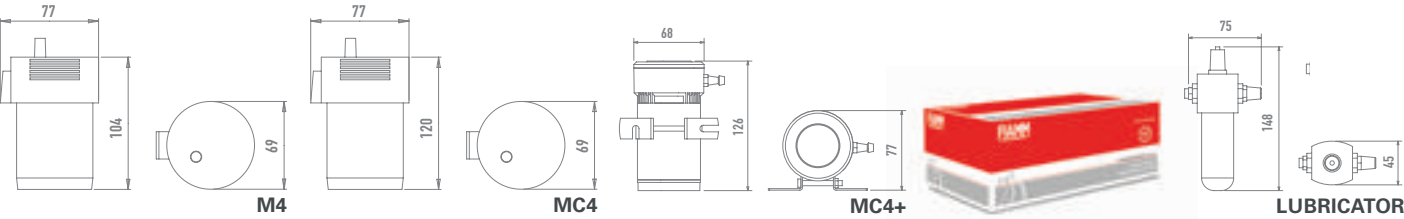
Compressori di nuova generazione, più compatti, potenti e versatili. Modelli disponibili dalla versione più semplice, M4, alla più potente MC4+ per applicazioni impegnative. Il compressore MC4+ può essere utilizzato anche con oliatore.

Compresores de nueva generación, más compactos, potentes y versátiles. Cada modelo está disponible de su versión más simple, M4, a la más potente, MC4+, para aplicaciones complejas. El compresor MC4+ se puede utilizar también con lubricador.

Compresseurs de nouvelle génération, plus compacts, puissants et universels. Modèles disponibles à partir de la version plus simple, M4, à la plus puissante MC4+ pour des applications difficiles. Le compresseur MC4+ peut être utilisé aussi avec le lubrificateur.

Verdichter der neuen Generation, kompakter, leistungsstärker und vielseitiger. Verfügbare Modelle: von der einfachsten M4 Ausführung bis zur starken, für schwer beanspruchende Anwendungen MC4+ Verdichter, der auch mit Öler verwendet werden kann.

COMPRESSORS COMPRESSORI COMPRESORES COMPRESSEURS VERDICHTER		Voltage Voltaggio Voltaje Tension Spannung	Amp. Draw Assorbimento Amperios Consummation Stromaufnahme	Pressure Pressione Presión Pression Betriebsdruck	Air flow Portata d'aria Flujo de aire Débit d'air Luftlieferleistung	M O Q	Packaging
		V	A	kPa		u.	
Steel/Aluminium							
	M4 12V COD. 921988	12	17	1,2	80	4	I8
	M4 24V COD. 921989	24	8	1,2	80	4	I8
	MC4 12V COD. 921991	12	17	1,4	80	4	I9
	MC4 24V COD. 921992	24	8	1,4	80	4	I9
Steel/Aluminium							
	MC4+ 12V COD. 921937	12	17	1,9	80	4	I10
	MC4+ 24V COD. 921938	24	8	1,9	80	4	I10
		Suitable for Adatto per Adecuado para Approprié pour Geeignet für				M O Q u.	Packaging
Plastic/Metal							
	LUBRICATOR COD. 920617	MC4 EMERGENCY/MC4+				8	S5



Electropneumatic emergency horns with a clean and powerful sound, equipped with a new and easy installation compressor.

Avvisatori elettropneumatici dal suono potente e pulito, dotati di compressore di nuova generazione di semplice installazione.

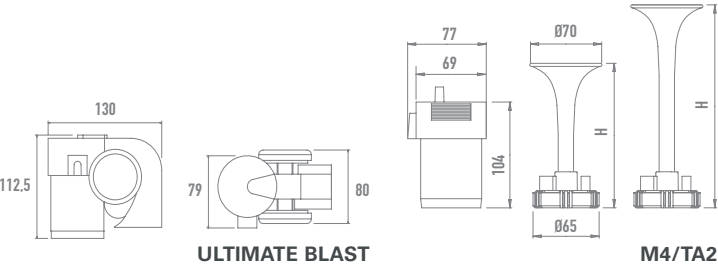
Bocinas electroneumáticas con sonido limpio y potente, equipadas con un compresor de nueva generación de fácil instalación.

Avertisseurs électropneumatiques, son puissant et net, pourvus d'un compresseur de nouvelle génération et simple à installer.

Elektropneumatische Hupen mit starkem und sauberem Klang, sie sind mit einem leicht installierbaren Verdichter der neuen Generation ausgestattet.

ELECTROPNEUMATIC HORNS AVISATORI ELETTROPNEUMATICI AVISADORES ELECTROMAGNÉTICOS AVERTISSEURS ÉLECTROPNEUMATIQUES ELEKTROPNEUMATISCHE HUPEN		Voltage Voltaggio Voltaje Tension Spannung	Amp. Draw Assorbimento Amperios Consummation Stromaufnahme	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	H	M O Q	Packaging
		V	A	dB(A) 2m	Hz	mm	u.	
ABS/Steel/Aluminium	ULTIMATE BLAST							
	ULTIMATE BLAST COD. 921939	12	19	115	L = 530 H = 660	-	12	C4
	ULTIMATE BLAST COD. 920621	24	8	115	L = 530 H = 660	-	12	C4
Steel/Aluminium	M4							
	M4/TA2 COD. 921981 PLASTIC	12	17	116	L = 655 H = 828	203 147	10	B3
Steel/Aluminium	M4							
	M4/TA2 COD. 921982 PLASTIC	24	8	116	L = 655 H = 828	203 147	10	B3
	M4/TA-BLU COD. 921987 PLASTIC	24	8	116	L = 622 H = 788	212 154	10	B3
	M4/TA-BLU COD. 921986 PLASTIC	12	17	116	L = 622 H = 788	212 152	10	B3

Type approval / Omologazione / Homologación / Homologation / Zulassung
Reg.28/Reg. 10 ECE

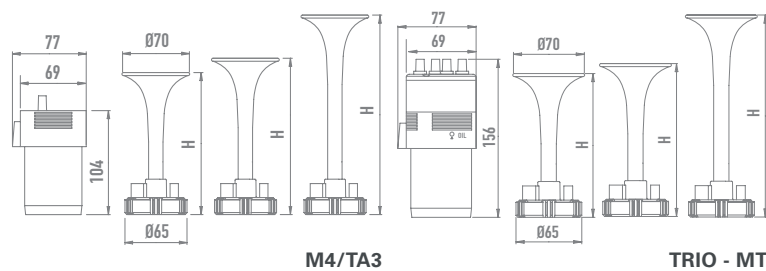




Accessories

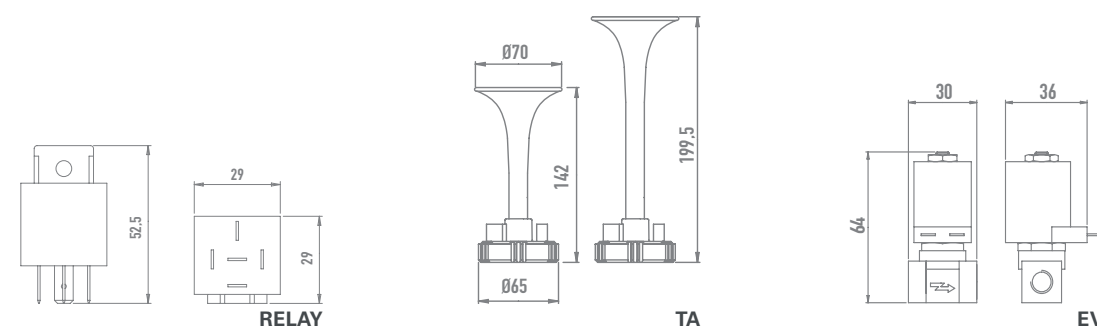
ELECTROPNEUMATIC HORNS AVVISATORI ELETTROPNEUMATICI AVISADORES ELECTROMAGNÉTICOS AVERTISSEURS ÉLECTROPNEUMATIQUES ELEKTROPNEUMATISCHE HUPEN		Voltage Voltaggio Voltaje Tension Spannung	Amp. Draw Assorbimento Amperios Consommation Stromaufnahme	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	H	M O Q	Packaging
		V	A	dB(A) 2m	Hz	mm	u.	
	M4 							
		12	17	116	L = 655 M = 768 H = 828	203 155 147	10	B3
	MT 							
		12	17	116	L = 655 M = 768 H = 828	203 155 147	10	B1
	MT/3i 							
		12	17	116	L = 622 M = 695 H = 788	212 193 152	10	B1

Type approval / Omologazione / Homologación / Homologation / Zulassung
Reg.28/Reg. 10 ECE



		Voltage Voltaggio Voltaje Tension Spannung	Suitable for Adatto per Adecuado para Approprié pour Geeignet für	M O Q	Packaging		
		V		u.			
Relay							
	RELAY 12V COD. 920960Z 5 PINS	12	-	250	A2		
	RELAY 24V COD. 920961Z 5 PINS	24	-	250	A2		
TRUMPETS TROMBE BOCINAS TROMPES HÖRNER		Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	Pressure Pressione Presión Pression Betriebsdruck	Air consumption Consumo d'aria Consumo de aire Consommation d'air Luftverbrauch	M O Q	Packaging
		dB(A) 2m	Hz	kPa	l/sec	u.	
Inox Steel							
	TA/O SHORT COD. 920358 PLASTIC - 1 PC	118	831	1-4	30	40	F2
	TA/2 COD. 920357 PLASTIC - KIT OF 2 PCS	118	659 831	1-4	60	40	F1
PNEUMATIC HORNS AVVISATORI PNEUMATICI AVISADORES NEUMÁTICOS AVERTISSEURS PNEUMATIQUES PNEUMATISCHE HUPEN		Voltage Voltaggio Voltaje Tension Spannung	Amp. Draw Assorbimento Amperios Consommation Stromaufnahme	Pressure Pressione Presión Pression Betriebsdruck	Suitable for Adatto per Adecuado para Approprié pour Geeignet für	M O Q	Packaging
		V	A	kPa		u.	
Metal							
	EV 12V - 2T COD. 920950	12	1,5	500 1200	TA180 TA150 FULTONE TC2PV	8	A
	EV 24V - 2T COD. 920975	24	0,7	500 1200		8	A
	EV 24V WITH FILTER - 2T COD. 921131	 24	0,7	500 1200		8	A

Type approval / Omologazione / Homologación / Homologation / Zulassung
Reg.28/Reg. 10 ECE



Musical Horns

Electropneumatic, retro style horns for a pleasant sound. Available versions from 3, 5 and 6 trumpets. They reproduce the most popular melodies taken from movies and music themes.

Avvisatori elettropneumatici dal gusto retrò per un suono sempre piacevole. Disponibili in versioni da 3, 5 e 6 cornetti. Riproducono le melodie più conosciute del mondo del cinema e della musica.

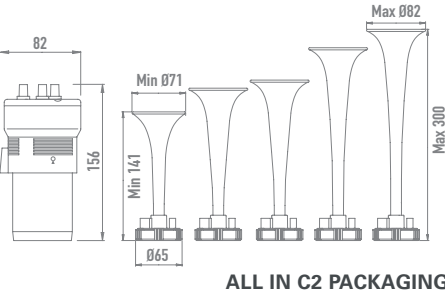
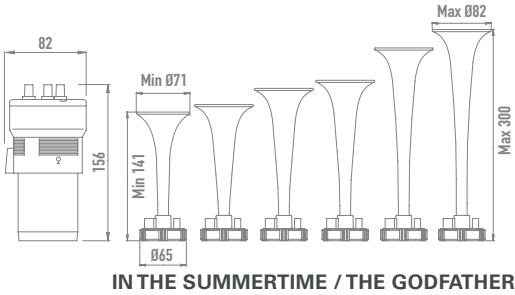
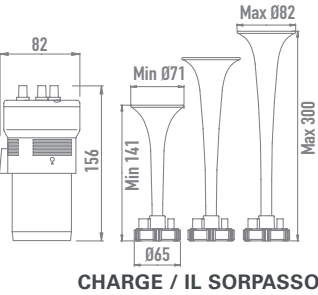
Bocinas electroneumáticas de gusto clásico para un sonido agradable. Disponibles en versión de 3, 5 y 6 bocinas. Reproducen las melodías más populares a nivel mundial en el ámbito del cine y de la música.

Avertisseurs électropneumatiques au goût rétro pour un son toujours agréable. Disponibles dans les versions 3, 5 et 6 trompes. Ils reproduisent les mélodies les plus connues du monde du cinéma et de la musique.

Electropneumatische Hupen im Retro-Stil für einen stets angenehmen Klang. Generation ausgestattet. Ausführungen mit 3, 5 und 6 Hörnern verfügbar. Es werden die bekanntesten Melodien von Filmen und Musikstücken erzeugt.

ELECTROPNEUMATIC HORNS AVVISATORI ELETTROPNEUMATICI AVISADORES ELECTROMAGNÉTICOS AVERTISSEURS ÉLECTROPNEUMATIQUES ELEKTROPNEUMATISCHE HUPEN	Voltage Voltaggio Voltaje Tension Spannung	Amp. Draw Assorbimento Amperios Consommation Stromaufnahme	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	M O Q	Packaging
	V	A	dB(A) 2m	Hz	u.	
Steel/Aluminium						
						
CHARGE / LA CARICA COD. 921970 PLASTIC	12	17	116	-	5	C1
IL SORPASSO COD. 921977 PLASTIC	12	17	116	-	5	C1
Steel/Aluminium						
						
IN THE SUMMERTIME COD. 921979 PLASTIC	12	17	116	-	5	C3
THE GODFATHER / IL PADRINO COD. 921976 PLASTIC	12	17	116	-	5	C3

Type approval / Omologazione / Homologación / Homologation / Zulassung
Reg.28/Reg. 10 ECE



ELECTROPNEUMATIC HORNS AVVISATORI ELETTROPNEUMATICI AVISADORES ELECTROMAGNÉTICOS AVERTISSEURS ÉLECTROPNEUMATIQUES ELEKTROPNEUMATISCHE HUPEN	Voltage Voltaggio Voltaje Tension Spannung	Amp. Draw Assorbimento Amperios Consommation Stromaufnahme	Decibel Liv. sonoro Nivel sonoro Décibels Schallpegel	Frequency Frequenza Frecuencia Fréquence Frequenz	M O Q	Packaging
	V	A	dB(A) 2m	Hz	u.	
Steel/Aluminium						
						
LA CUCARACHA COD. 921972 PLASTIC	12	17	116	-	5	C2
DIXIE LAND / DUKES OF HAZZARD COD. 921973 PLASTIC	12	17	116	-	5	C2
O' SOLE MIO COD. 921974 PLASTIC	12	17	116	-	5	C2
OH! SUSANNA COD. 921975 PLASTIC	12	17	116	-	5	C2
RIVER KWAI / LA MARCIA DEL PONTE COD. 921971 PLASTIC	12	17	116	-	5	C2
LA MARSIGLIESE / LA MARSEILLAISE COD. 921980 PLASTIC	12	17	116	-	5	C2
BRASIL COD. 921978 PLASTIC	12	17	116	-	5	C2

Type approval / Omologazione / Homologación / Homologation / Zulassung
Reg.28/Reg. 10 ECE

a look into the future



AVAS
(Acoustic Vehicle Alerting System)

FIAMM is delivering to its customers a range of AVAS pedestrian warning system depending on acoustic performance and communication type request. FIAMM is developing further sound generators with different sizes and sound treatment possibilities.

visit avas.fiammcomponents.com



LLHX
(Long Life Horn)



LLH, is an electronic snail horn engineered by FIAMM. This Horn can be installed in every car model thanks to its compact size due to internal electronics assembly and it ensures a duration of more than 2 million cycles.



MSHX is an electronic multi function horn able to reproduce additional sounds on top of classical horn (for example, a buzzer sound for car closure confirmation when the driver walks away or during back doors closure).

MSHX
(Multi Sound Horn)

for more information please contact us
info.acousticdevices@fiammcomponents.com



Reference Riferimento Referencia Référence Bezug	Packaging Imballaggio Voltaje Emballage Verpackung	Quantity for packaging Quantità per imballo Cantidad para embalaje Quantité par Emballage Menge pro Verpackung	Master Carton dimensions Dimensioni Master Carton Dimensiones Cartón de Embalaje Dimensions Carton Principal Master Karton Abmessungen	Quantity for Master Carton Quantità per Master Carton Cantidad para Cartón de Embalaje Quantité par Carton Principal Menge pro Master Karton	M.C. Weight Peso M.C. Peso C. de E. Poids C.P M.K. Gewicht	Master Carton quantity on pallet Quantità di Master Carton su pallet Cantidad de C. de E. en palé Quantité de C.P. sur palette Menge von M.K. auf Palette
		no.of pieces / pezzi / piezas nombre de pièces / Stückzahl	mm	no.of pieces / pezzi / piezas nombre de pièces / Stückzahl	Kg	
A	BOX - 35x72x97	1	240x145x95	8	2	-
A2	BOX - 340x190x320	1		250		-
B1	BLISTER	1	450x510x310	10	14	-
B2	BLISTER	1	450x510x310	10	18	-
B3	BLISTER	1	450x510x310	10	11	-
C1	BLISTER	1	380x330x475	5	8	-
C2	BLISTER	1	460x385x455	5	9	-
C3	BLISTER	1	520x425x465	5	10	-
C4	BLISTER	1	502x427x225	12	10	-
F1	BULK	-	450x510x310	40	9	-
F2	BULK	-	450x510x310	40	4	-
F3	BOX - 135x200x480	1	520x450x265	3	6	-
F4	BOX - 135x200x480	1	520x450x265	3	6	-
F5	BOX - 135x200x480	1	520x450x265	3	3	-
F6	BOX - 220x310x150	1	500x325x400	5	18	-
F9	BOX - 135x200x480	1	450x520x265	3	7	-
F10	BOX - 110x135x480	1	450x520x265	6	10	-
F11	BOX - 220x310x150	1	500x325x400	5	12	-
F12	BOX - 185x220x150	1	500x325x400	8	12	-
F13	BOX - 135x200x480	1	450x520x265	3	6	-
F14	BOX - 110x135x480	1	450x520x265	6	6	-
F15	BOX - 220x310x150	1	500x325x400	5	5	-
F16	BOX - 110x135x480	1	450x520x265	6	5	-
F17	BOX - 110x135x480	1	450x520x265	6	3	-
F18	BOX - 185x220x150	1	500x325x400	8	17	-
G1	BOX - 113x194x80	2 H+L/L+L	400x300x300	16	10	-
G2	BOX - 82x90x105	1	300x200x200	9	3	-
G5	BOX - 142x180x146	1	400x300x300	8	6	-
G6	BOX - 144x385x146	1	400x300x300	4	13	-
G7	BOX - 142x180x146	1	400x300x300	8	22	-
G8	BOX - 142x180x146	1	400x300x300	8	10	-
G9	BOX - 83x126x192	1	300x200x200	4	2	-
H	BOX - 95x166x357	1	400x390x480	8	12	-
H1	BOX - 95x166x357	1	400x390x480	8	8	-
H2	2 BOX - 95x166x357	1	400x390x480	4	8	-
H3	BOX - 95x166x357	1	400x390x480	8	3	-

Reference Riferimento Referencia Référence Bezug	Packaging Imballaggio Voltaje Emballage Verpackung	Quantity for packaging Quantità per imballo Cantidad para embalaje Quantité par Emballage Menge pro Verpackung	Master Carton dimensions Dimensioni Master Carton Dimensiones Cartón de Embalaje Dimensions Carton Principal Master Karton Abmessungen	Quantity for Master Carton Quantità per Master Carton Cantidad para Cartón de Embalaje Quantité par Carton Principal Menge pro Master Karton	M.C. Weight Peso M.C. Peso C. de E. Poids C.P M.K. Gewicht	Master Carton quantity on pallet Quantità di Master Carton su pallet Cantidad de C. de E. en palé Quantité de C.P. sur palette Menge von M.K. auf Palette
		no.of pieces / pezzi / piezas nombre de pièces / Stückzahl	mm	no.of pieces / pezzi / piezas nombre de pièces / Stückzahl	Kg	
I1	BOX - 82x90x105	1	300x200x200	9	3	-
I2	BOX - 82x90x105	1	300x200x200	9	2	-
I3	BOX - 83x126x192	1	400x300x200	9	5	-
I4	BOX - 113x194x80	1	300x200x200	4	4	-
I5	BOX - 83x126x192	2	400x300x200	9	4	-
I6	BOX - 83x126x192	1	400x300x200	9	4	-
I7	BOX - 82x90x105	1	300x200x200	9	1	-
I8	BOX - 113x194x80	1	245x210x180	4	3	-
I9	BOX - 113x194x80	1	245x210x180	4	4	-
I10	BOX - 113x194x80	1	245x210x180	4	5	-
I11	BOX - 113x194x80	1	245x210x180	4	7	-
I12	BOX - 82x90x105	1	300x200x200	9	3	60
I13	BOX - 82x90x105	2	300x200x200	9	3	60
I14	BOX - 93x190x85	2 H+L	400x300x200	12	7	40
I15	BOX - 82x90x105	1	400x300x200	22	7	40
I16	BOX - 93x190x85	2 H+L	400x300x200	12	8	40
I17	BOX - 82x90x105	1	300x200x200	9	3	60
I18	BOX - 93x190x85	2 H+L	400x300x200	12	7	40
I19	BOX - 113x194x80	1	300x200x200	4	2	-
L1	BOX - 93x190x85	2 H+L	610x470x230	30	16	20
M	BOX - 145x145x690	1	725x500x490	9	15	6
R	BOX - 130x220x152	1	600x400x300	13	10	15
R1	BOX - 125X205X105					
S	BOX - 62x125x125	1	300x200x200	8	4	-
S2	BOX - 82x90x105	3	300x200x200	9	1	-
S3	BOX - 82x90x105	1	300x200x200	9	2	-
S4	BOX - 82x90x105	4	300x200x200	9	5	-
S5	BOX - 62x125x125	1	300x200x200	8	2	-
S6	BOX - 82x90x105	1	300x200x200	9	3	60
T	BLISTER	1	500x320x420	20	10	-
T1	BLISTER	1	500x320x420	48	19	-
U	BULK	-	300x200x200	240	6	-
V	BOX - 435x300x290	1	435x300x290	1	5	-

Brackets

Staffe / Estribos / Patte / Halter

Reference Riferimento Referencia Référence Bezug	Thickness Spessore Espesor Épaisseur Dicke	Quantity for horn Quantità per avvisatore Cantidad por bocina Quantité par avertisseur Menge pro Hupe	Interaxis Interasse Intereje Entraxe Achsabstand	Fastening diameter on vehicle Diametro fissaggio su vettura Diámetro fijación en el vehículo Diamètre fixation sur voiture Befestigungsdurchmesser am Fahrzeug
	mm		mm	
AM80S	2	1	70	M8
TR99	2	1	65	M8
HK9	1	2	65	M8
HK8	1	2	65	M8

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