

# FIAMM

Acoustic Devices

Heavy and industrial vehicles  
Veicoli pesanti ed industriali  
Vehículos pesados e industriales  
Véhicules industriels  
Schwerfahrzeuge und Industriefahrzeuge

Acoustic alarm signal systems for heavy, industrial and alarm vehicles.

Sistemi di segnalazione acustica per mezzi pesanti, industriali e di allarme.

Sistemas de señalización acústica para medios pesados, industriales y de alarma.

Systèmes d'avertissement sonore pour véhicules industriels et alarmes.

Akustische Signalegeräte für LKWs, Industriefahrzeuge und Alarmgeräte.



## TR99 • HK

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 equipada con avisadores de carretera homologados para camiones, también se pueden utilizar como señalizadores para medios 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

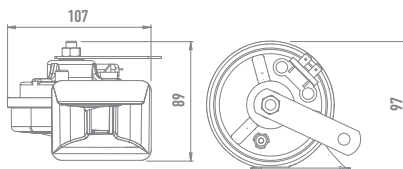
Avvisatori elettromagnetici  
Avisadores electromagnéticos  
Avertisseurs électromagnétiques  
Elektromagnetische Hupen

| Voltage<br>Voltaggio<br>Voltage<br>Tension<br>Spannung | Amp. Draw<br>Assorbimento<br>Amperios<br>Consummation<br>Stromaufnahme | Decibel<br>Livello Sonoro<br>Decibelios<br>Décibels<br>Schallpegel | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz | Master carton | Packaging |
|--|--|--|---|---------------|-----------|
| V  | A  | dB(A) 2m   | Hz  | u.            |           |



Steel/ABS

TR99 - 2T  
Cod. 922010  
+ 1 Relay  
TR99/L+L - 2T  
Cod. 922012  
+ 1 Relay



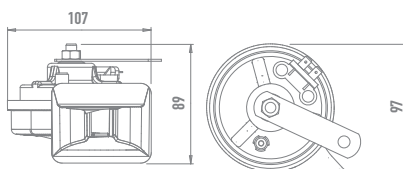
Type approval  
Omologazione | Homologación  
Homologation | Zulassung  
Reg.28/Reg. 10 ECE

|    |   |     |                    |    |    |
|----|---|-----|--------------------|----|----|
| 24 | 5 | 112 | L = 420<br>H = 500 | 16 | G1 |
| 24 | 5 | 112 | L = 420<br>L = 420 | 16 | G1 |



Steel/ABS

TR99/H 24V - 2T  
Cod. 922020  
TR99/L 24V - 2T  
Cod. 922021



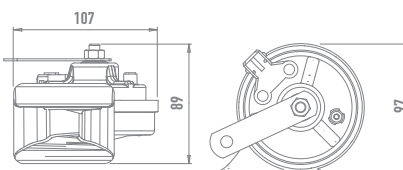
Type approval  
Omologazione | Homologación  
Homologation | Zulassung  
Reg.28/Reg. 10 ECE

|    |     |     |         |    |    |
|----|-----|-----|---------|----|----|
| 24 | 2,5 | 109 | H = 500 | 32 | L4 |
| 24 | 2,5 | 109 | L = 420 | 32 | L4 |



Steel/ABS

TR99/L+L - JPT  
Cod. 922018  
+ 1 Relay  
TR99/L - PACKARD  
Cod. 422263114



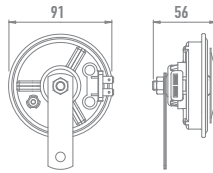
Type approval  
Omologazione | Homologación  
Homologation | Zulassung  
Reg.28/Reg. 10 ECE

|    |     |     |                    |    |    |
|----|-----|-----|--------------------|----|----|
| 24 | 5   | 112 | L = 420<br>L = 420 | 16 | G1 |
| 24 | 2,5 | 109 | L = 420            | 9  | I3 |

## Electromagnetic horns

Avvisatori elettromagnetici  
Avisadores electromagnéticos  
Avertisseurs électromagnétiques  
Elektromagnetische Hupen

| Voltage<br>Voltaggio<br>Voltage<br>Tension<br>Spannung | Amp. Draw<br>Assorbimento<br>Amperios<br>Consumation<br>Stromaufnahme | Decibel<br>Livello Sonoro<br>Decibelios<br>Décibels<br>Schallpegel | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz | Master carton | Packaging |
|--|---|--|---|---------------|-----------|
| V  | A   | dB(A) 2m   | Hz  | u.            |           |



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

Steel/Aluminium

**HK9 - 2T** ▶  
Cod. 920368  
+ 1 Relay

**HK9/H - 2T** ▶  
Cod. 920369

**HK9/L - 2T** ▶  
Cod. 920370

|    |     |     |                    |    |    |
|----|-----|-----|--------------------|----|----|
| 24 | 3   | 113 | L = 340<br>H = 425 | 30 | L1 |
| 24 | 1,5 | 110 | H = 425            | 35 | G2 |
| 24 | 1,5 | 110 | L = 340            | 35 | G2 |

## ELECTRO AIR HORN

Electropneumatic 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.

Avisadores electropneumáticos de sonido limpio y potente, dotados de compresor de nueva generación de fácil instalación.

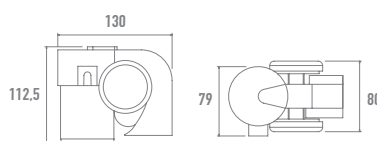
Avertisseurs électropneumatiques, son puissant et net, pourvus d'un compresseur de nouvelle génération et facile à installer.

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

## Electropneumatic horns

Avvisatori elettropneumatici  
Avisadores electropneumáticos  
Avertisseurs électropneumatiques  
Elektropneumatische Hupen

| Voltage<br>Voltaggio<br>Voltage<br>Tension<br>Spannung | Amp. Draw<br>Assorbimento<br>Amperios<br>Consumation<br>Stromaufnahme | Decibel<br>Livello Sonoro<br>Decibelios<br>Décibels<br>Schallpegel | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz | H  | Master carton | Packaging |
|--|---|--|---|----|---------------|-----------|
| V  | A   | dB(A) 2m   | Hz  | mm | u.            |           |



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

ABS, Steel, Aluminum

**ULTIMATE BLAST** ▶  
Cod. 920621

|    |   |     |                    |   |    |    |
|----|---|-----|--------------------|---|----|----|
| 24 | 8 | 115 | L = 530<br>H = 660 | - | 12 | C4 |
|----|---|-----|--------------------|---|----|----|

## Electropneumatic horns

Avvisatori elettropneumatici  
Avisadores electroneumáticos  
Avertisseurs électropneumatiques  
Elektropneumatische Hupen

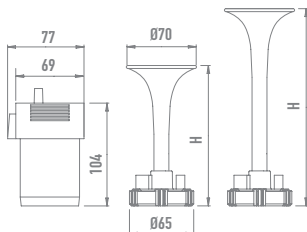
| Voltage<br>Vtaggio<br>Voltage<br>Tension<br>Spannung | Amp. Draw<br>Assorbimento<br>Amperios<br>Consumation<br>Stromaufnahme | Decibel<br>Livello Sonoro<br>Decibelios<br>Décibels<br>Schallpegel | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz | H  | Master carton | Packaging |
|--|---|--|---|----|---------------|-----------|
| V  | A   | dB(A) 2m   | Hz  | mm | u.            |           |



Steel/Aluminium

**M4/TA2**  
Cod. 921982  
Plastic

**M4/TA-BLU**  
Cod. 921987  
Plastic



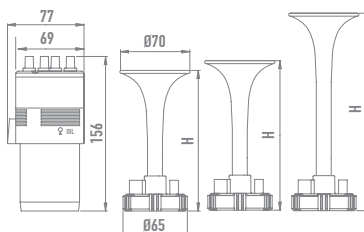
Type approval  
Omologazione | Homologación  
Homologation | Zulassung  
Reg.28/Reg. 10 ECE

|    |   |     |                    |            |    |    |
|----|---|-----|--------------------|------------|----|----|
| 24 | 8 | 116 | L = 655<br>H = 828 | 203<br>147 | 10 | B3 |
| 24 | 8 | 116 | L = 622<br>H = 788 | 212<br>152 | 10 | B3 |



Steel/Aluminium

**TRIO**  
Cod. 921968  
Plastic



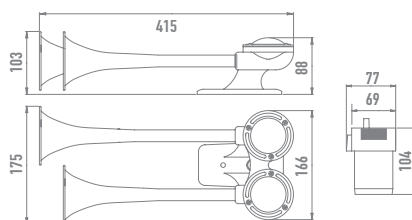
Type approval  
Omologazione | Homologación  
Homologation | Zulassung  
Reg. 10 ECE

|    |   |     |                               |                   |    |    |
|----|---|-----|-------------------------------|-------------------|----|----|
| 24 | 8 | 116 | L = 655<br>M = 768<br>H = 828 | 203<br>155<br>147 | 10 | B1 |
|----|---|-----|-------------------------------|-------------------|----|----|



Steel/Aluminium

**M4/FUL**  
Cod. 921990  
Inox Steel



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

|    |    |     |                    |   |   |    |
|----|----|-----|--------------------|---|---|----|
| 12 | 17 | 115 | L = 260<br>H = 300 | - | 6 | F9 |
|----|----|-----|--------------------|---|---|----|

# AIR HORN

Pneumatic horns that operate with on-board air, with a powerful sound and attractive design.

Avisatori pneumatici, funzionanti con aria di bordo, dal suono potente e dal design accattivante.

Avisadores neumáticos, que funcionan con aire de a bordo, de sonido potente y diseño atractivo.

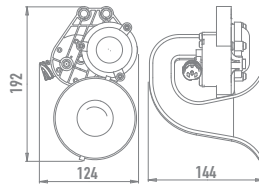
Avertisseurs pneumatiques, qui fonctionnent avec l'air interne, son puissant et design attirant.

Pneumatische Hupen, die mit Fahrzeugdruckluft funktionieren. Sie haben einen starken Klang und ein ansprechendes Design.

## Pneumatic horns

Avvisatori pneumatici  
Avisadores neumáticos  
Avertisseurs pneumatiques  
Pneumatische Hupen

| Air consumption<br>Consumo d'aria<br>Consomme de aire<br>Consummation<br>d'air<br>Luftverbrauch | Pressure<br>Pressione<br>Presion<br>Pression<br>Betriebsdruck | Decibel<br>Livello Sonoro<br>Decibelios<br>Décibels<br>Schallpegel | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz | Master carton | Packaging |
|---|---|--|---|---------------|-----------|
| l/sec   | kPa   | dB(A) 2m   | Hz  | u.            |           |



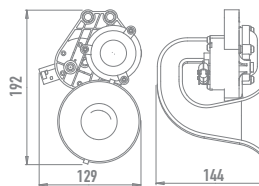
24 V | 0,8 A

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

ABS

**JERICO AIR COMPACT** ▶  
Cod. 928028

|     |             |     |     |    |   |
|-----|-------------|-----|-----|----|---|
| 0,4 | 300<br>1000 | 118 | 400 | 13 | R |
|-----|-------------|-----|-----|----|---|



24 V | 0,8 A

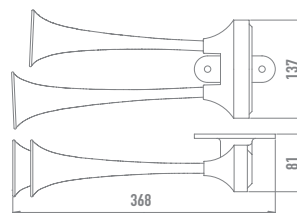
Type approval  
Omologazione | Homologación  
Homologation | Zulassung  
Reg.28/Reg. 10 ECE

ABS

Volvo and Renault Truck since 2013

**JERICO AIR COMPACT** ▶  
24V HDSCS  
Cod. 928026

|     |             |     |     |    |   |
|-----|-------------|-----|-----|----|---|
| 0,4 | 300<br>1000 | 118 | 400 | 13 | R |
|-----|-------------|-----|-----|----|---|



Type approval  
Omologazione | Homologación  
Homologation | Zulassung  
Reg.28ECE

ABS

Standard application • IVECO

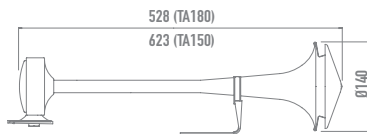
**TC/2 PV** ▶  
Cod. 920157

|     |             |     |                    |   |    |
|-----|-------------|-----|--------------------|---|----|
| 0,9 | 500<br>1200 | 117 | L = 392<br>H = 415 | 6 | F5 |
|-----|-------------|-----|--------------------|---|----|

## Pneumatic horns

Avvisatori pneumatici  
 Avisadores neumáticos  
 Avertisseurs pneumatiques  
 Pneumatische Hupen

| Air consumption<br>Consumo d'aria<br>Consumo de aire<br>Consummation<br>d'air<br>Luftverbrauch | Pressure<br>Pressione<br>Presion<br>Pression<br>Betriebsdruck | Decibel<br>Livello Sonoro<br>Decibelios<br>Décibels<br>Schallpegel | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz | Master carton | Packaging |
|--|---|--|---|---------------|-----------|
| l/sec  | kPa   | dB(A) 2m   | Hz  | u.            |           |



Type approval  
 Omologazione | Homologación  
 Homologation | Zulassung  
 Reg.28ECE

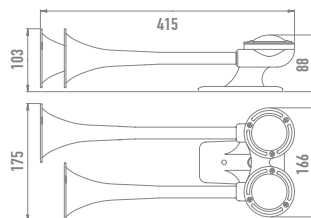
Inox Steel

**TA180** ▶  
**Cod. 920614**

**TA150** ▶  
**Cod. 920613**

|     |             |     |     |   |   |
|-----|-------------|-----|-----|---|---|
| 5,5 | 600<br>1200 | 118 | 180 | 9 | M |
| 5,5 | 600<br>1200 | 118 | 150 | 9 | M |

Standard application  
 MAN • MERCEDES • HYUNDAI

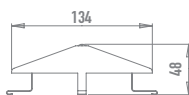


Type approval  
 Omologazione | Homologación  
 Homologation | Zulassung  
 Reg.28ECE

Inox Steel

**FULTONE T** ▶  
**Cod. 920308**

|     |             |     |                    |   |    |
|-----|-------------|-----|--------------------|---|----|
| 0,9 | 500<br>1200 | 117 | L = 260<br>H = 300 | 6 | F4 |
|-----|-------------|-----|--------------------|---|----|



Cod. 920326

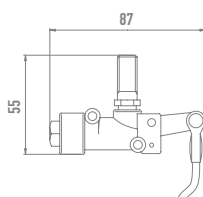


Cod. 920322



**SPOILER TIR** ▶  
**Cod. 920326**  
 Kit of 2 pcs - Inox Steel  
**SPOILER FULTONE T** ▶  
**Cod. 920322**  
 Kit of 2 pcs - Chromated Steel

|                       |   |    |
|-----------------------|---|----|
| <b>TA180 / TA 150</b> | 9 | I5 |
| <b>FULTONE</b>        | 9 | I5 |



Steel

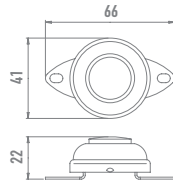
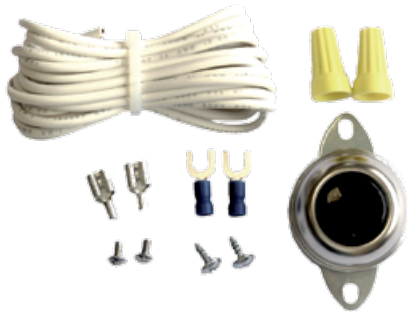
**AIR HORN VALVE KIT** ▶  
**Cod. 920321**

|        |             |  |    |    |
|--------|-------------|--|----|----|
| Manual | 500<br>1200 | <b>TA180 / TA150</b><br><b>FULTONE / TC/2 PV</b> | 34 | S3 |
|--------|-------------|--|----|----|

## Pneumatic horns

Avvisatori pneumatici  
 Avisadores neumáticos  
 Avertisseurs pneumatiques  
 Pneumatische Hupen

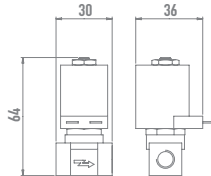
|  |   |   |   |               |           |
|--|---|---|---|---------------|-----------|
| Voltage<br>Voltaggio<br>Voltage<br>Tension<br>Spannung | Amp. Draw<br>Assorbimento<br>Amperios<br>Consumation<br>Stromaufnahme | Pressure<br>Pressione<br>Presion<br>Pression<br>Betriebsdruck | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz | Master carton | Packaging |
| V  | A   | kPa   | Hz  | u.            |           |



**HORN BUTTON SWITCH KIT** ▶  
 Cod. 920320

Plastic/metal

|          |                       |    |    |
|----------|-----------------------|----|----|
| 12<br>24 | <b>Electric horns</b> | 34 | S3 |
|----------|-----------------------|----|----|



Type approval  
 Omologazione | Homologación  
 Homologation | Zulassung  
 Reg. 10 ECE

**EV 12V - 2T** ▶  
 Cod. 920950

**EV 24V - 2T** ▶  
 Cod. 920975

Metal

|    |     |             |  |   |   |
|----|-----|-------------|--|---|---|
| 12 | 1,5 | 500<br>1200 | <b>TA180<br/>TA150<br/>FULTONE<br/>TC/2 PV</b> | 8 | A |
| 24 | 0,7 | 500<br>1200 |  | 8 | A |

## BUS HORN

Electropneumatic horn ideal for installations on public transport vehicles.

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

Avisador electroneumático ideal para instalaciones en medios de transportes públicos de línea.

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

Elektropneumatische Hupe, ideal für die Installation an öffentlichen Verkehrsmitteln.

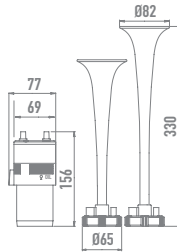
### Electropneumatic horns

Avisatori elettropneumatici  
 Avisadores electroneumáticos  
 Avertisseurs électropneumatiques  
 Elektropneumatische Hupen

| Voltage<br>Voltaggio<br>Voltage<br>Tension<br>Spannung | Amp. Draw<br>Assorbimento<br>Amperios<br>Consummation<br>Stromaufnahme | Decibel<br>Livello Sonoro<br>Decibelios<br>Décibels<br>Schalpegel | Frequency<br>Frecuencia<br>Frecuencia<br>Fréquence<br>Frequenz | Master carton | Packaging |
|--|--|---|--|---------------|-----------|
| V  | A  | dB(A) 2m  | Hz   | u.            |           |



Steel/Aluminium



Type approval  
 Omologazione | Homologación  
 Homologation | Zulassung  
 Reg. 10 ECE

**ALA 12V** ▶  
**Cod. 921997**  
 Plastic

**ALA 24V** ▶  
**Cod. 921998**  
 Plastic

|    |    |     |                    |   |   |
|----|----|-----|--------------------|---|---|
| 12 | 17 | 116 | L = 390<br>H = 490 | 8 | H |
| 24 | 8  | 116 | L = 390<br>H = 490 | 8 | H |



# REVERSE ALARM

Reverse horns for applications on heavy and industrial vehicles. The range includes horns with different technical and acoustic features to satisfy all possible applications.

Avvisatori di retromarcia per applicazioni su mezzi pesanti ed industriali. La gamma comprende avvisatori di diverse caratteristiche tecniche e sonore per poter soddisfare tutte le possibili applicazioni.

Avisadores de marcha atrás para aplicaciones en medios pesados e industriales. La gama incluye bocinas con características técnicas y de sonido diferentes para poder satisfacer múltiples aplicaciones.

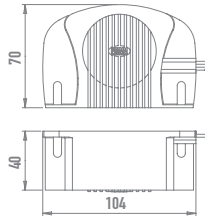
Avertisseurs de marche-arrière pour applications sur véhicules industriels. La gamme comprend des avertisseurs ayants différentes caractéristiques techniques et sonores pour satisfaire toutes les applications.

Rückfahrhörner zur Anwendung an LKWs und Industriefahrzeugen. Die Produktpalette beinhaltet Signaleinrichtungen mit unterschiedlichen Eigenschaften in Technik und Klang um allen möglichen Anwendungen zu entsprechen.

## Back-up alarms

Avvisatori di retromarcia  
Bocinas de marcha atrás  
Avertisseur de recul  
Rückfahrmelder

| Voltage<br>Voltage<br>Voltage<br>Tension<br>Spannung | Amp. Draw<br>Assorbimento<br>Amperios<br>Consummation<br>Stromaufnahme | Decibel<br>Livello Sonoro<br>Decibelios<br>Décibels<br>Schallpegel | Frequency<br>Frequenza<br>Frecuencia<br>Fréquence<br>Frequenz | Master carton | Packaging |
|--|--|--|---|---------------|-----------|
| V  | A  | dB(A) 1,2m   | Hz  | u.            |           |

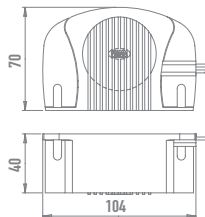


Type approval  
Omologazione | Homologación  
Homologation | Zulassung  
SAE J994

ABS

**BA87** ▶  
Cod. 923152  
Type C alarm

|          |          |    |      |    |    |
|----------|----------|----|------|----|----|
| 24<br>12 | 0,5<br>1 | 97 | 1500 | 34 | 12 |
|----------|----------|----|------|----|----|

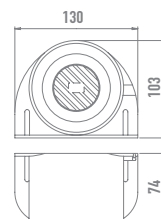


Type approval  
Omologazione | Homologación  
Homologation | Zulassung  
SAE J994

ABS

**BA107** ▶  
Cod. 923158  
Type B alarm

|          |          |     |      |    |    |
|----------|----------|-----|------|----|----|
| 24<br>12 | 0,5<br>1 | 107 | 1400 | 34 | 12 |
|----------|----------|-----|------|----|----|



Type approval  
Omologazione | Homologación  
Homologation | Zulassung  
SAE J994

ABS

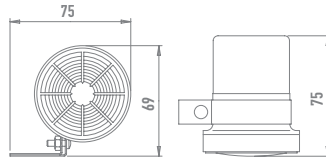
**BA112** ▶  
Cod. 923159  
Type A alarm  
**BA87-112 ADAPTIVE** ▶  
Cod. 923160  
Type A-D alarm

|          |          |                    |      |   |    |
|----------|----------|--------------------|------|---|----|
| 24<br>12 | 0,5<br>1 | 112                | 1400 | 9 | 13 |
| 24<br>12 | 0,5<br>1 | 87<br>112 adaptive | 1400 | 9 | 13 |

## Back-up alarms

Avvisatori di retromarcia  
 Bocinas de marcha atrás  
 Avvertisseur de recul  
 Rückfahrmelder

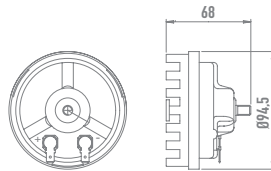
| Voltage<br>Vtaggio<br>Voltage<br>Tension<br>Spannung | Amp. Draw<br>Assorbimento<br>Amperios<br>Consumation<br>Stromaufnahme | Decibel<br>Livello Sonoro<br>Decibelios<br>Décibels<br>Schallpegel | Frequency<br>Frequenza<br>Fréquence<br>Frequenz | Master carton | Packaging |
|--|---|--|---|---------------|-----------|
| V  | A   | dB(A) 1,2m   | Hz  | u.            |           |



Plastic

**MINI ALARM 97** ▶  
 Cod. 923161

|    |     |    |      |    |    |
|----|-----|----|------|----|----|
| 12 | 0,7 | 97 | 1700 | 21 | 17 |
|----|-----|----|------|----|----|



Steel/ABS

**BK9 HEAVY DUTY - 2T** ▶  
 Cod. 923009

|          |            |    |     |    |    |
|----------|------------|----|-----|----|----|
| 24<br>12 | 0,7<br>1,4 | 94 | 780 | 21 | 11 |
|----------|------------|----|-----|----|----|